

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

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

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

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2127936884 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|                         |                                                    |                   |                   |
|-------------------------|----------------------------------------------------|-------------------|-------------------|
| Responsible Party       | XTO Energy                                         | OGRID             | 5380              |
| Contact Name            | Shelby Pennington                                  | Contact Telephone | 281-723-9353      |
| Contact email           | shelby.g.pennington@exxonmobil.com                 | Incident #        | (assigned by OCD) |
| Contact mailing address | 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707 |                   |                   |

### Location of Release Source

Latitude 32.10198 Longitude -103.82396  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                       |           |                 |
|-------------------------|-----------------------|-----------|-----------------|
| Site Name               | PLU 30 Big Sinks 101H | Site Type | Production Well |
| Date Release Discovered | 9/27/2021             | API#      | (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| E           | 30      | 25S      | 31E   | 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 type="checkbox"/> Crude Oil                   | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Produced Water              | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
|                                                      | Is the concentration of total dissolved solids (TDS) 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 checked="" type="checkbox"/> Other (describe) | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                  |
| Frac Fluid                                           | 14 BBLS                                                                                  | 4 BBLS                                                   |

Cause of Release Discharge pump on blender developed leak, releasing fluids both into containment and onto pad. Contained fluids were recovered. A third-party contractor has been retained for remediation activities.

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|                                                                                                                                       |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release?<br>N/A |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>N/A                   |                                                                                             |

### 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:<br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| 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: Shelby Pennington                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Title: Environmental Manager |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: 10/5/21                |
| email: shelby.g.pennington@exxonmobil.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Telephone: 281-723-9353      |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |
| Received by: Ramona Marcus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date: 11/9/2021              |

NAPP2127936884

|                                          |                       |         |
|------------------------------------------|-----------------------|---------|
| <b>Location:</b>                         | <b>PLU 30 BS 101H</b> |         |
| <b>Spill Date:</b>                       | <b>9/27/2021</b>      |         |
| <b>Area 1</b>                            |                       |         |
| Approximate Area =                       | 26.97                 | cu.ft.  |
| VOLUME OF LEAK                           |                       |         |
| Total Crude Oil =                        | 0.00                  | bbls    |
| Total Frac Fluid =                       | 4.00                  | bbls    |
| <b>Area 2</b>                            |                       |         |
| Approximate Area =                       | 8980.00               | sq. ft. |
| Average Saturation (or depth) of spill = | 2.50                  | inches  |
| Average Porosity Factor =                |                       |         |
| 0.03                                     |                       |         |
| VOLUME OF LEAK                           |                       |         |
| Total Crude Oil =                        | 0.00                  | bbls    |
| Total Frac Fluid =                       | 10.00                 | bbls    |
| <b>TOTAL VOLUME OF LEAK</b>              |                       |         |
| Total Crude Oil =                        | 0.00                  | bbls    |
| Total Frac Fluid =                       | 14.00                 | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                       |         |
| Total Crude Oil =                        | 0.00                  | bbls    |
| Total Frac Fluid =                       | 4.00                  | bbls    |

|                |                |
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## 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?                                                                                                           | <u>&gt;100</u> (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 <b>not</b> 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:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ 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.



State of New Mexico  
Oil Conservation Division

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Printed Name: \_\_\_Adrian Baker\_\_\_\_\_ Title: \_\_\_Environmental Coordinator\_\_\_\_\_

Signature: \_\_\_*Adrian Baker*\_\_\_\_\_ Date: \_\_\_6/24/2022\_\_\_\_\_

email: \_\_\_adrian.baker@exxonmobil.com\_\_\_\_\_ Telephone: \_\_\_432-236-3808\_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 6/24/2022

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 08/16/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



June 23, 2022

District II  
New Mexico Oil Conservation Division  
811 South First Street  
Artesia, New Mexico 88210

**Re: Closure Request  
PLU 30 Big Sinks 101H  
Incident Number NAPP2127936884  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the PLU 30 Big Sinks 101H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of hydraulic fracturing (frac) fluid at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2127936884.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E, Section 30, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.10198° N, 103.82396°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On September 27, 2021, a leak on the discharge pump on the blender resulted in the release of 14 barrels (bbls) of frac fluid into the temporary lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 4 bbls of frac fluid were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 5, 2021. The release was assigned Incident Number NAPP2127936884.

The frac fluid composition is produced water. Produced water is recycled through filtering and separation, then mixed in a blender with friction reducer and used as frac fluid during the well completion process. The safety data sheet (SDS) for friction reducer is provided as an attachment.

#### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants  
601 North Marienfeld Street | Midland, TX 79701 | [ensolum.com](http://ensolum.com)  
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During June 2022, a borehole (C-4624) was advanced to a depth of 120 feet bgs via air rotary drill rig. The borehole was located approximately 0.3 miles east of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 120 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 942 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

## SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Once frac operations were complete, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. The temporary lined containment had been removed at the time of the Site visit. Twelve preliminary assessment soil samples (SS01 through SS12) were collected within and around the release extent from a depth of 0.5 feet bgs, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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 at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of 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 preliminary soil samples SS01 through SS07, collected within the release extent, indicated that TPH and/or TPH-GRO/TPH-DRO concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS08 through SS12 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the

Closure Criteria. Additionally, laboratory analytical results for preliminary soil samples SS09 through SS12, collected around the release extent, were compliant with the most stringent Table 1 Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

## **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

Between March 7, 2022 and March 9, 2022, vertical delineation and excavation activities were completed. Two potholes (PH01 and PH02) were advanced via backhoe within the release extent to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 3 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 1-foot to 3 feet bgs. Soil from the potholes was field screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, soil was screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 1-foot to 2 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS36 were collected from the floor of the excavation from depths ranging from 1-foot to 2 feet bgs. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 7,100 square feet. A total of approximately 526 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

## **LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for the delineation soil samples collected from pothole PH02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples collected from pothole PH01 at depths of 1-foot and 2 feet bgs indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria; the subsequent delineation sample collected at 3 feet bgs was compliant.

Laboratory analytical results for excavation floor samples FS01 through FS36 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 27, 2021, release of frac fluid. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally delineated to below the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

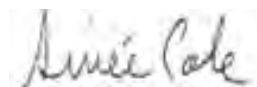
Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater is greater than 100 feet bgs based on a recent soil boring and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2127936884.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Kalei Jennings  
Senior Scientist



Aimee Cole  
Senior Managing Scientist

cc: Adrian Baker, XTO  
Bureau of Land Management

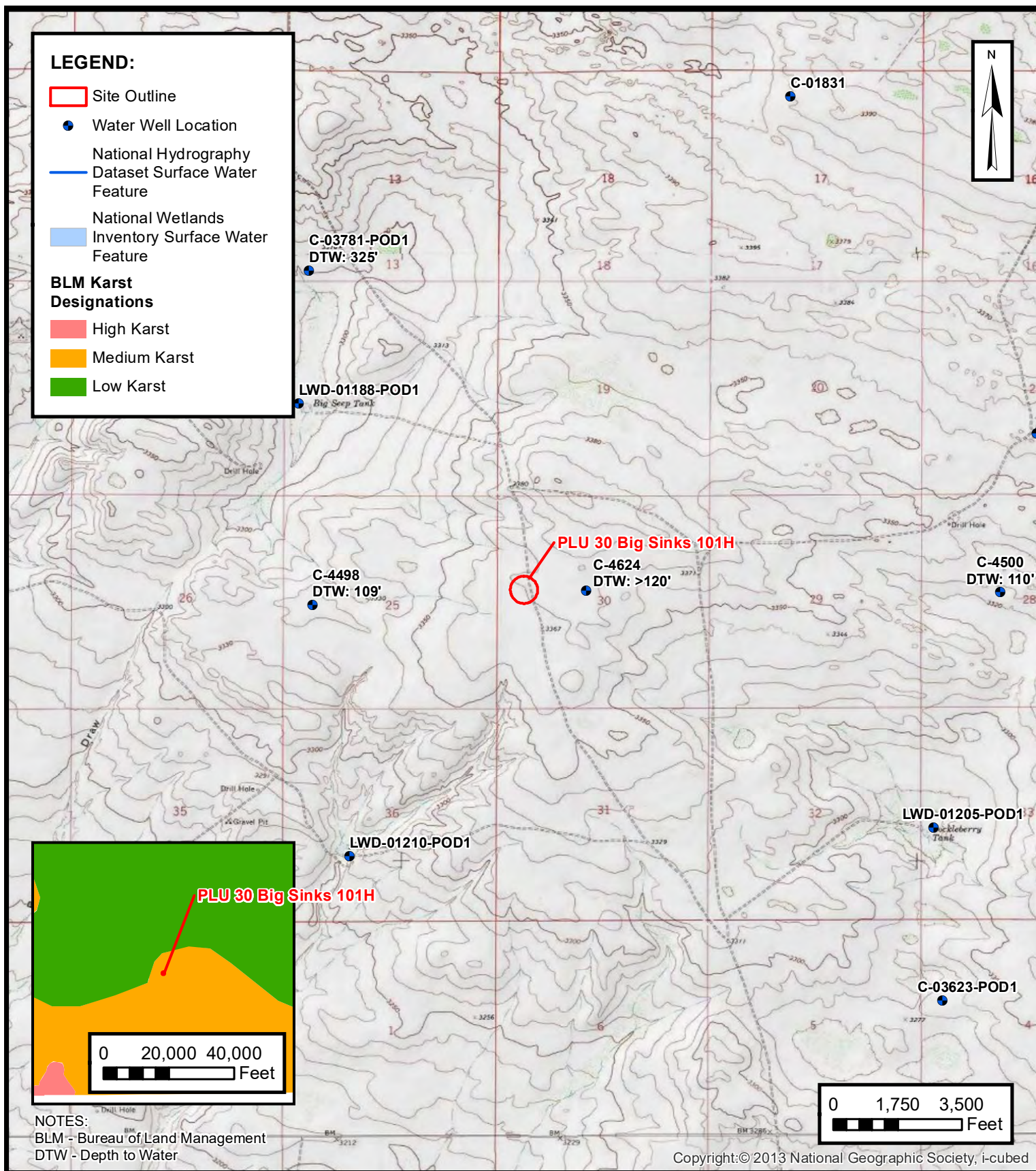
### Appendices:

|            |                                                                |
|------------|----------------------------------------------------------------|
| Figure 1   | Site Location Map                                              |
| Figure 2   | Preliminary Soil Sample Locations                              |
| Figure 2   | Delineation Soil Sample Locations                              |
| Figure 3   | Excavation Soil Sample Locations                               |
| Table 1    | Soil Sample Analytical Results                                 |
| Appendix A | Referenced Well Records                                        |
| Appendix B | Lithologic Soil Sampling Logs                                  |
| Appendix C | Photographic Log                                               |
| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix E | SDS for Friction Reducer                                       |
| Appendix F | NMOCD Notifications                                            |



FIGURES



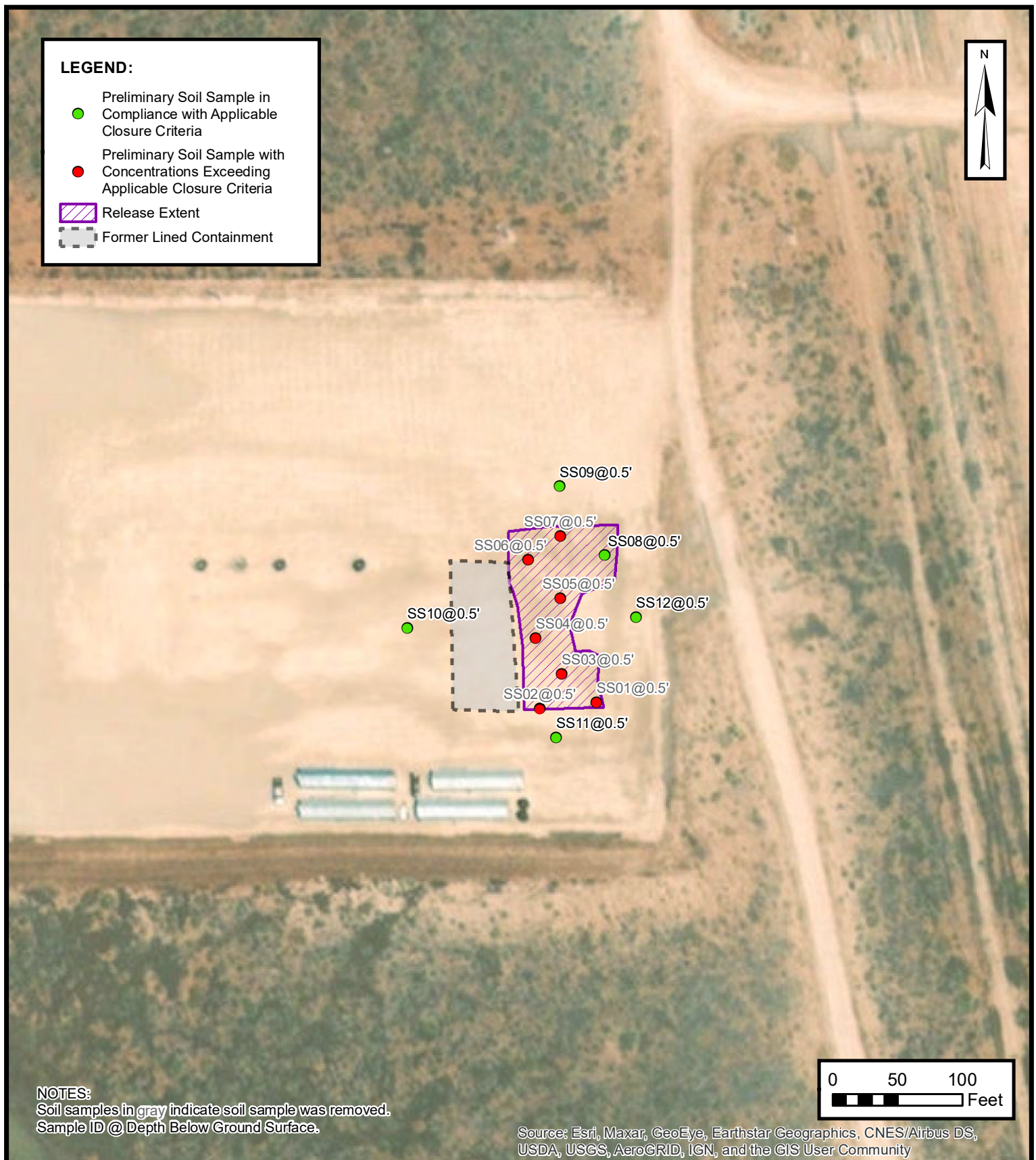


### SITE RECEPTOR MAP

XTO ENERGY, INC  
 PLU 30 BIG SINKS 101H  
 NAPP2127936884  
 Unit E, Sec 30, T25S, R31E  
 Eddy County, New Mexico

**FIGURE**  
**1**



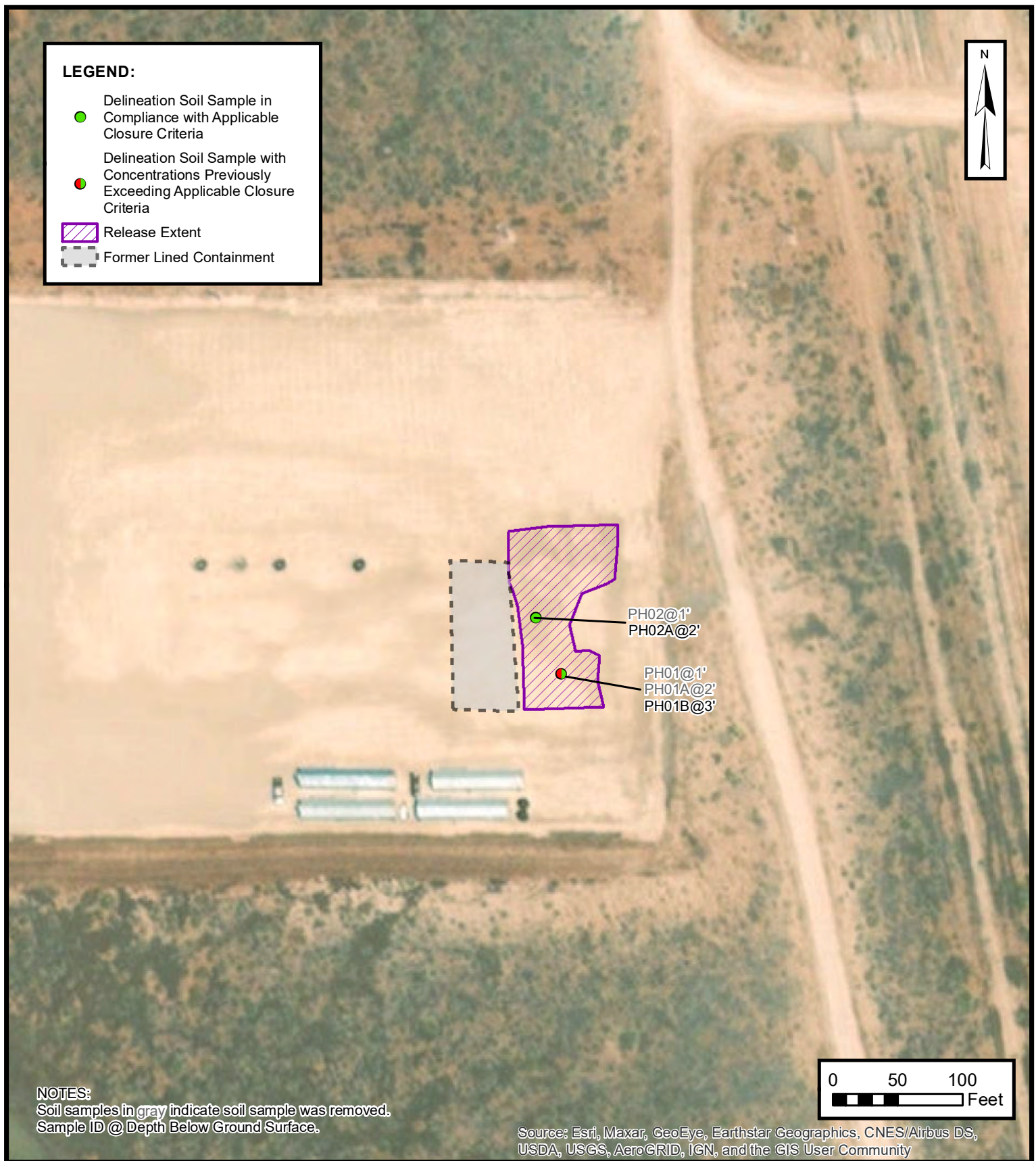


### PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC  
PLU 30 BIG SINKS 101H  
NAPP2127936884  
Unit E, Sec 30, T25S, R31E  
Eddy County, New Mexico

**FIGURE**  
**2**



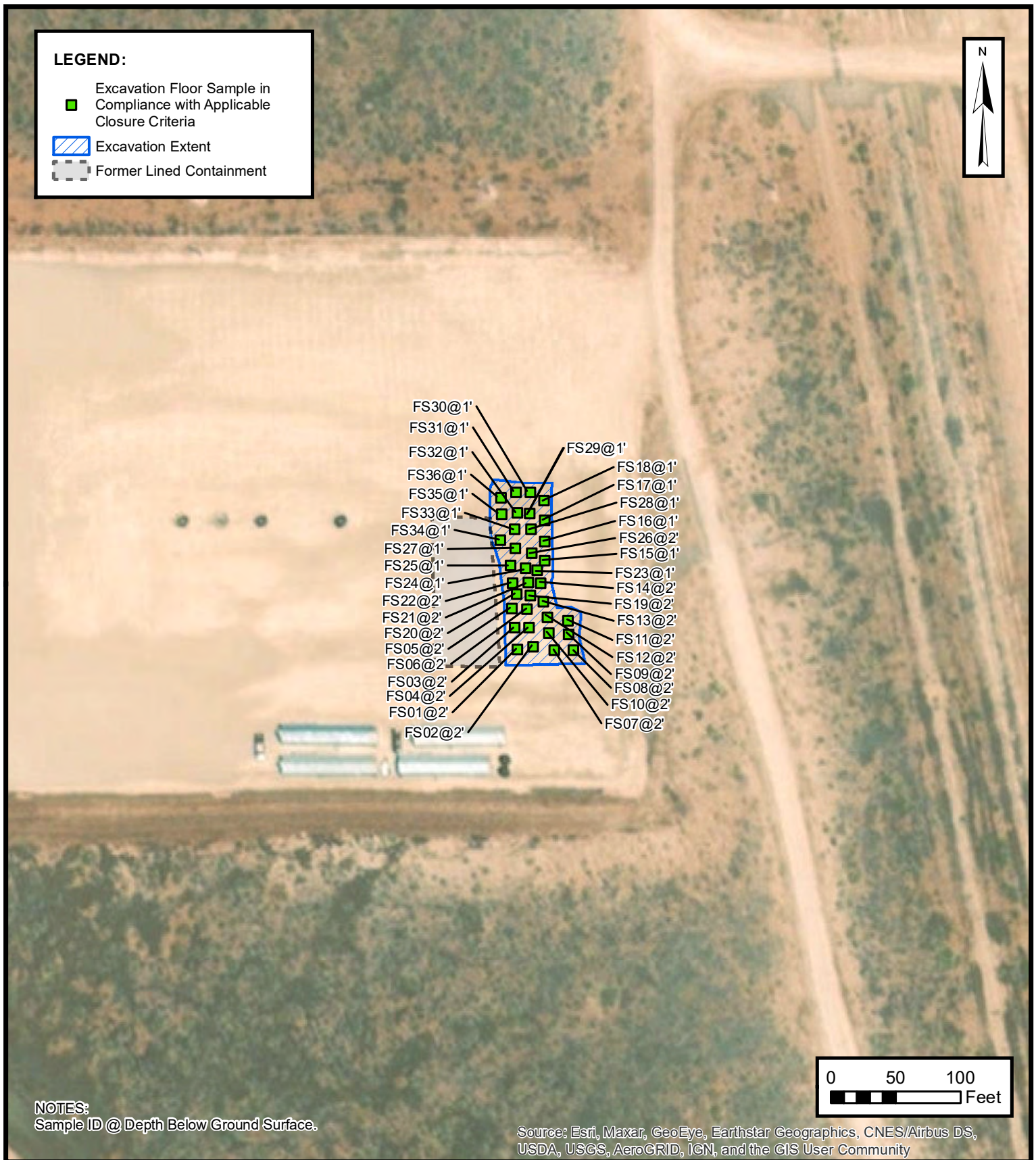


### DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC  
PLU 30 BIG SINKS 101H  
NAPP2127936884  
Unit E, Sec 30, T25S, R31E  
Eddy County, New Mexico

**FIGURE**  
**3**





#### EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC  
PLU 30 BIG SINKS 101H  
NAPP2127936884  
Unit E, Sec 30, T25S, R31E  
Eddy County, New Mexico

**FIGURE**  
**4**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 PLU 30 Big Sinks 101H  
 XTO Energy, Inc.  
 Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Preliminary Assessment Soil Samples            |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01                                           | 01/20/2022  | 0.5                     | <0.00202        | <0.00403           | <500            | 28,400          | <500            | 28,400          | 28,400            | 1,830            |
| SS02                                           | 01/20/2022  | 0.5                     | <0.00199        | <0.00398           | <499            | 24,100          | <499            | 24,100          | 24,100            | 1,040            |
| SS03                                           | 01/20/2022  | 0.5                     | <0.00200        | <0.00399           | <250            | 13,300          | <250            | 13,300          | 13,300            | 2,910            |
| SS04                                           | 01/20/2022  | 0.5                     | <0.00198        | <0.00396           | <500            | 40,500          | <500            | 40,500          | 40,500            | 2,060            |
| SS05                                           | 01/20/2022  | 0.5                     | <0.00201        | <0.00402           | <499            | 28,400          | <499            | 28,400          | 28,400            | 2,860            |
| SS06                                           | 01/20/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | 1,840           | <49.9           | 1,840           | 1,840             | 10,900           |
| SS07                                           | 01/20/2022  | 0.5                     | <0.00200        | <0.00400           | <50.0           | 1,260           | <50.0           | 1,260           | 1,260             | 6,730            |
| SS08                                           | 01/20/2022  | 0.5                     | <0.00200        | <0.00399           | <49.9           | 577             | <49.9           | 577             | 577               | 9,760            |
| SS09                                           | 03/07/2022  | 0.5                     | <0.00198        | <0.00396           | <49.9           | 51.5            | <49.9           | 51.5            | 51.5              | 188              |
| SS10                                           | 03/09/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | 77.1            | <49.9           | 77.1            | 77.1              | 375              |
| SS11                                           | 03/09/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | 98.4            | <49.9           | 98.4            | 98.4              | <500             |
| SS12                                           | 03/09/2022  | 0.5                     | <0.00202        | <0.00403           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | <499             |
| Delineation Soil Samples                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| PH01                                           | 03/07/2022  | 1                       | <0.00199        | 0.0123             | <249            | 11,200          | <249            | 11,200          | 11,200            | 885              |
| PH01A                                          | 03/07/2022  | 2                       | <0.00199        | <0.00398           | 66.2            | 3570            | 57.3            | 3,636           | 3,690             | 361              |
| PH01B                                          | 03/07/2022  | 3                       | <0.00202        | 0.0110             | <49.9           | 297             | <49.9           | 297             | 297               | 22.5             |
| PH02                                           | 03/07/2022  | 1                       | <0.00199        | 0.00569            | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 535              |
| PH02A                                          | 03/07/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | 178             | <50.0           | 178             | 178               | 246              |
| Excavation Floor Soil Samples                  |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01                                           | 03/07/2022  | 2                       | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 236              |
| FS02                                           | 03/07/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | 130             | <49.9           | 130             | 130               | 89.2             |
| FS03                                           | 03/07/2022  | 2                       | <0.00198        | <0.00396           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 56.0             |
| FS04                                           | 03/07/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | 99.3            | <50.0           | 99.3            | 99.3              | 15.0             |
| FS05                                           | 03/07/2022  | 2                       | <0.00200        | <0.00400           | <49.9           | 133             | <49.9           | 133             | 133               | 36.2             |
| FS06                                           | 03/07/2022  | 2                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 33.3             |
| FS07                                           | 03/08/2022  | 2                       | <0.00200        | <0.00399           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 62.2             |
| FS08                                           | 03/08/2022  | 2                       | <0.00200        | 0.00857            | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 121              |
| FS09                                           | 03/08/2022  | 2                       | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 248              |
| FS10                                           | 03/08/2022  | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 21.4             |
| FS11                                           | 03/08/2022  | 2                       | <0.00200        | <0.00400           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 245              |
| FS12                                           | 03/08/2022  | 2                       | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 19.4             |
| FS13                                           | 03/08/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 35.8             |





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 PLU 30 Big Sinks 101H  
 XTO Energy, Inc.  
 Eddy County, New Mexico

| Sample I.D.                                    | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|------------------------------------------------|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| FS14                                           | 03/08/2022  | 2                       | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 114              |
| FS15                                           | 03/08/2022  | 1                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 1,910            |
| FS16                                           | 03/08/2022  | 1                       | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 3,500            |
| FS17                                           | 03/08/2022  | 1                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 896              |
| FS18                                           | 03/08/2022  | 1                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 423              |
| FS19                                           | 03/08/2022  | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 857              |
| FS20                                           | 03/08/2022  | 2                       | <0.00202        | <0.00403           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 795              |
| FS21                                           | 03/09/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 927              |
| FS22                                           | 03/09/2022  | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 726              |
| FS23                                           | 03/09/2022  | 1                       | <0.00202        | <0.00403           | <50.0           | 93.1            | <50.0           | 93.1            | 93.1              | 2,480            |
| FS24                                           | 03/09/2022  | 1                       | <0.00200        | <0.00401           | <49.9           | 87.8            | <49.9           | 87.8            | 87.8              | 1,810            |
| FS25                                           | 03/09/2022  | 1                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 1,870            |
| FS26                                           | 03/09/2022  | 1                       | <0.00202        | <0.00404           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 2,010            |
| FS27                                           | 03/09/2022  | 1                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 768              |
| FS28                                           | 03/09/2022  | 1                       | <0.00200        | <0.00400           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 335              |
| FS29                                           | 03/09/2022  | 1                       | <0.00198        | <0.00397           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 392              |
| FS30                                           | 03/09/2022  | 1                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 430              |
| FS31                                           | 03/09/2022  | 1                       | <0.00201        | <0.00402           | <50.0           | 560             | <50.0           | 560             | 560               | 372              |
| FS32                                           | 03/09/2022  | 1                       | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 215              |
| FS33                                           | 03/09/2022  | 1                       | <0.00200        | <0.00401           | <49.9           | 67.6            | <49.9           | 67.6            | 67.6              | 388              |
| FS34                                           | 03/09/2022  | 1                       | <0.00202        | <0.00403           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 734              |
| FS35                                           | 03/09/2022  | 1                       | <0.00200        | <0.00401           | <49.9           | 191             | <49.9           | 191             | 191               | 257              |
| FS36                                           | 03/09/2022  | 1                       | <0.00200        | <0.00399           | <50.0           | 79.9            | <50.0           | 79.9            | 79.9              | 327              |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



## APPENDIX A

### Referenced Well Records

---

|                                                                                          |                    |              |                 |                          |                                | Client: <u>XID</u><br>Project Name: <u>PLU 30 Big Sinks 103H</u><br>Project Location: <u>Eddy County, NM</u><br>Project Manager: <u>Kate Jennings</u>                                                                                             |                                                                                                                                                                                               | BORING LOG NUMBER<br><u>BH 01</u><br>Project # <u>03E1558031</u>                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|-----------------|--------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Date Sampled: <u>6/22/22</u><br>Drilled by: <u>W. W. W. S.</u><br>Driller: <u>Russell Southland</u><br>Logged by: <u>Becky Jennings</u><br>Sampler: <u>Becky Jennings</u> |                    |              |                 |                          |                                | Ground Surface Elevation: _____<br>Top of Casing Elevation: _____<br>North Coordinate: _____<br>West Coordinate: _____<br>Bench Mark Elevation: _____<br><input type="checkbox"/> At Completion<br><input type="checkbox"/> At Well Stabilization |                                                                                                                                                                                               | Borehole Diameter: <u>6"</u><br>Casing Diameter: _____<br>Well Materials: _____<br>Surface Completion: _____<br>Boring Method: <u>Air Rotary</u> |  |
| DEPTH<br>(ft)                                                                                                                                                             | SAMPLE<br>INTERVAL | SAMPLE<br>ID | RECOVERY<br>(%) | FID/PID<br>READING (ppm) | POTENTIAL<br>METRIC<br>SURFACE | GEOLOGIC<br>LOG SYMBOL                                                                                                                                                                                                                            | GEOLOGIC DESCRIPTION                                                                                                                                                                          | BORING / WELL COMPLETION<br>(GRAPHIC DEPICTION)                                                                                                  |  |
| 0                                                                                                                                                                         |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   | pg. 1 of 2                                                                                                                                                                                    |                                                                                                                                                  |  |
| 20                                                                                                                                                                        |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   | 0' Caliche, very pale brown, up to<br>1" limestone fragments, slightly<br>moist, no odor<br>10' silty sand, pinkish white, fine<br>grained, slightly consolidated,<br>slightly moist, no odor |                                                                                                                                                  |  |
| 40                                                                                                                                                                        |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                                                                  |  |
| 60                                                                                                                                                                        |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                                                                  |  |
| 80                                                                                                                                                                        |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                                                                  |  |
| 100                                                                                                                                                                       |                    |              |                 |                          |                                |                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |                                                                                                                                                  |  |



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# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                   |              | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |                      |     |                                |     | (NAD83 UTM in meters) |         |
|-------------------|--------------|------------------------------------|-----|----------------------|-----|--------------------------------|-----|-----------------------|---------|
|                   |              | (quarters are smallest to largest) |     |                      |     |                                |     |                       |         |
| Well Tag          | POD Number   | Q64                                | Q16 | Q4                   | Sec | Tw                             | Rng | X                     | Y       |
| NA                | C 04498 POD1 | 2                                  | 1   | 3                    | 25  | 25S                            | 30E | 609394                | 3552168 |
|                   |              |                                    |     |                      |     |                                |     |                       |         |
| Driller License:  |              | 1249                               |     | Driller Company:     |     | ATKINS ENGINEERING ASSOC. INC. |     |                       |         |
| Driller Name:     |              | JAKCIE D ATKINS                    |     |                      |     |                                |     |                       |         |
| Drill Start Date: |              | 02/24/2021                         |     | Drill Finish Date:   |     | 02/24/2021                     |     | Plug Date: 03/02/2021 |         |
| Log File Date:    |              | 03/11/2021                         |     | PCW Rcv Date:        |     | Source:                        |     |                       |         |
| Pump Type:        |              |                                    |     | Pipe Discharge Size: |     | Estimated Yield: 0 GPM         |     |                       |         |
| Casing Size:      |              |                                    |     | Depth Well:          |     | 109 feet                       |     | Depth Water:          |         |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/27/22 11:30 AM

POINT OF DIVERSION SUMMARY



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## Search Results -- 1 sites found

site\_no list =

- 320643103465002

Minimum number of levels = 1

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## USGS 320643103465002 25S.31E.21.413314A

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83

Land-surface elevation 3,374.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

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

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

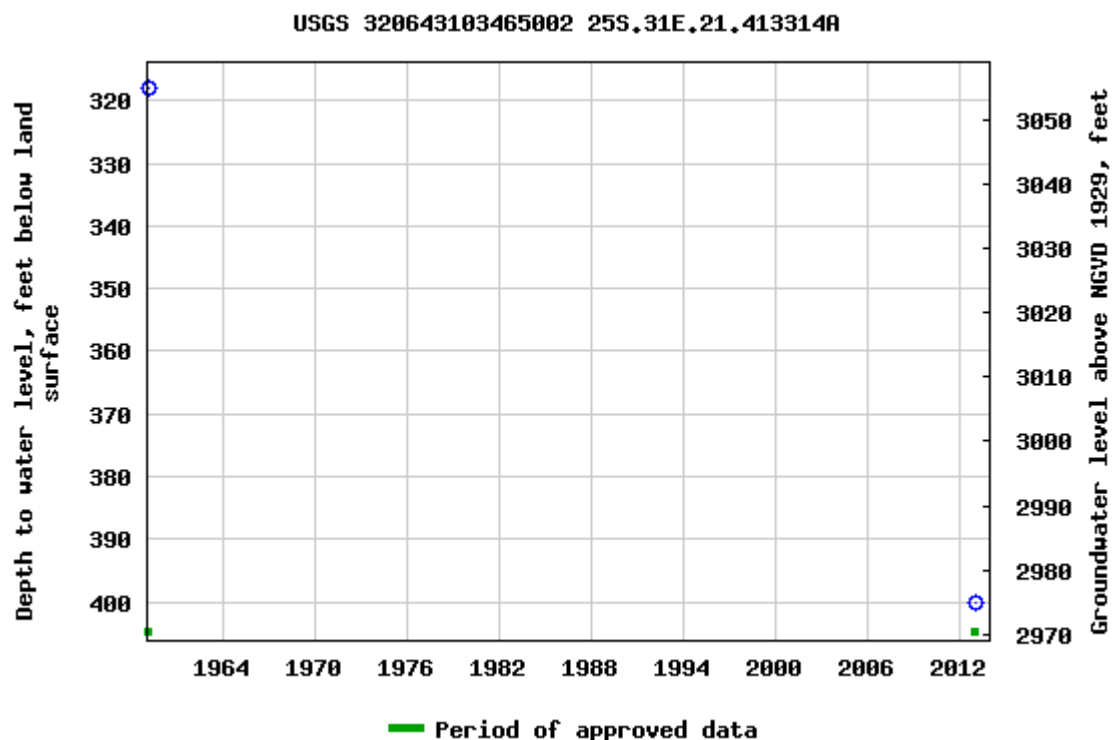
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Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2022-01-27 13:19:40 EST

0.6 0.51 nadww01



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc.

PLU 30 Big Sinks 101H

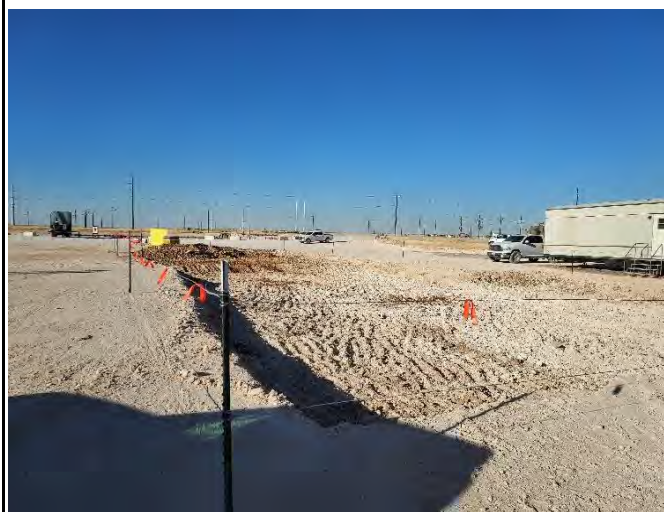
Incident Number NAPP2127936884



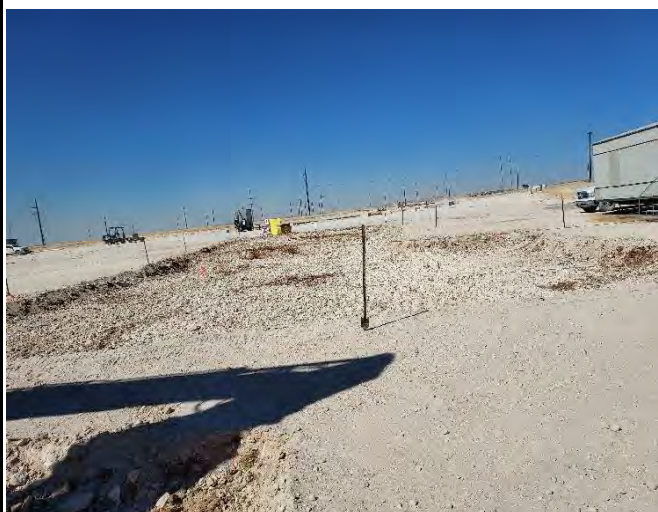
Photograph 1 Date: 01/20/2022  
Description: View of visible staining observed during initial site assessment.



Photograph 2 Date: 01/20/2022  
Description: View of visible staining observed during initial site assessment.



Photograph 3 Date: 03/08/2022  
Description: View of open excavation.



Photograph 4 Date: 03/09/2022  
Description: View of final excavation extent.



## APPENDIX C

### Lithologic Soil Sampling Logs

---

|                                                                                                                                              |                |             |          |           |                       |                |                  | Sample Name: <b>PH01</b>                                           |  | Date: <b>03/07/2022</b> |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--------------------------------------------------------------------|--|-------------------------|--|--|--|
|                                                                                                                                                                                                                               |                |             |          |           |                       |                |                  | Site Name: <b>PLU 30 Big Sinks 101H</b>                            |  |                         |  |  |  |
|                                                                                                                                                                                                                               |                |             |          |           |                       |                |                  | Incident Number: <b>NAPP2127936884</b>                             |  |                         |  |  |  |
|                                                                                                                                                                                                                               |                |             |          |           |                       |                |                  | Job Number: <b>03E1558031</b>                                      |  |                         |  |  |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                         |                |             |          |           |                       |                |                  | Logged By: <b>MR</b>                                               |  | Method: <b>Backhoe</b>  |  |  |  |
| Coordinates:                                                                                                                                                                                                                  |                |             |          |           |                       |                |                  | Hole Diameter: <b>NA</b>                                           |  | Total Depth: <b>3'</b>  |  |  |  |
| 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. No correction factors included. |                |             |          |           |                       |                |                  |                                                                    |  |                         |  |  |  |
| Moisture Content                                                                                                                                                                                                              | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                            |  |                         |  |  |  |
|                                                                                                                                                                                                                               |                |             |          |           |                       | 0              |                  |                                                                    |  |                         |  |  |  |
| D                                                                                                                                                                                                                             | 980            | 113.5       | Y        | PH01      | 1                     | 1              | CCHE             | CALICHE, light brown, poorly graded, slight odor, slight staining. |  |                         |  |  |  |
| M                                                                                                                                                                                                                             | 397.6          | 90          | Y        | PH01A     | 2                     | 2              | CCHE             | SAA.                                                               |  |                         |  |  |  |
| D                                                                                                                                                                                                                             | <120           | 18.2        | N        | PH01B     | 3                     | 3              | CCHE             | SAA, no staining, no odor.                                         |  |                         |  |  |  |
| TD @ 3 feet bgs                                                                                                                                                                                                               |                |             |          |           |                       |                |                  |                                                                    |  |                         |  |  |  |

|  <b>ENSOLUM</b>                                                                                                                              |                | Sample Name: <b>PH02</b>                |                          | Date: <b>03/07/2022</b> |                        |                 |                  |                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|--------------------------|-------------------------|------------------------|-----------------|------------------|---------------------------------------------------------------|--|
|                                                                                                                                                                                                                               |                | Site Name: <b>PLU 30 Big Sinks 101H</b> |                          |                         |                        |                 |                  |                                                               |  |
|                                                                                                                                                                                                                               |                | Incident Number: <b>NAPP2127936884</b>  |                          |                         |                        |                 |                  |                                                               |  |
|                                                                                                                                                                                                                               |                | Job Number: <b>03E1558031</b>           |                          |                         |                        |                 |                  |                                                               |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                         |                |                                         |                          |                         |                        |                 |                  |                                                               |  |
| Coordinates:                                                                                                                                                                                                                  |                |                                         | Logged By: <b>MR</b>     |                         | Method: <b>Backhoe</b> |                 |                  |                                                               |  |
|                                                                                                                                                                                                                               |                |                                         | Hole Diameter: <b>NA</b> |                         | Total Depth: <b>3'</b> |                 |                  |                                                               |  |
| 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. No correction factors included. |                |                                         |                          |                         |                        |                 |                  |                                                               |  |
| Moisture Content                                                                                                                                                                                                              | Chloride (ppm) | Vapor (ppm)                             | Staining                 | Sample ID               | Sample Depth (ft bgs)  | Depth (ft bgs)  | USCS/Rock Symbol | Lithologic Descriptions                                       |  |
|                                                                                                                                                                                                                               |                |                                         |                          |                         |                        | 0               |                  |                                                               |  |
| D                                                                                                                                                                                                                             | 3,080          | 4.5                                     | Y                        | PH02                    | 1                      | 1               | CCHE             | CALICHE, dark brown, poorly graded, no odor, slight staining. |  |
| M                                                                                                                                                                                                                             | 1,243.2        | 2.2                                     | Y                        | PH02A                   | 2                      | 2               | CCHE             | SAA.                                                          |  |
| M                                                                                                                                                                                                                             | 980            | 0.7                                     | N                        |                         |                        | 3               | CCHE             | SAA, no staining, no odor.                                    |  |
|                                                                                                                                                                                                                               |                |                                         |                          |                         |                        | TD @ 3 feet bgs |                  |                                                               |  |





## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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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: 890-1851-1  
Client Project/Site: PLU 30BS 101H

For:  
WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:  
1/26/2022 3:52:33 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Laboratory Job ID: 890-1851-1

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

Eurofins Carlsbad



## Case Narrative

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

**Job ID: 890-1851-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1851-1****Receipt**

The samples were received on 1/20/2022 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17733 and analytical batch 880-17662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-1851-1), SS02 (890-1851-2), SS03 (890-1851-3), SS04 (890-1851-4) and SS05 (890-1851-5). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17550 and analytical batch 880-17639 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS01

Lab Sample ID: 890-1851-1

Date Collected: 01/20/22 11:24

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 17:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 17:17 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 28400  |           | 500 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <500   | U         | 500 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:09 | 10      |
| Diesel Range Organics (Over C10-C28) | 28400  |           | 500 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:09 | 10      |
| Oil Range Organics (Over C28-C36)    | <500   | U         | 500 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:09 | 10      |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 01/25/22 15:06 | 01/26/22 04:09 | 10      |
| o-Terphenyl    | 231       | S1+       | 70 - 130 | 01/25/22 15:06 | 01/26/22 04:09 | 10      |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1830   | F1        | 25.0 | mg/Kg |   |          | 01/24/22 16:25 | 5       |

Client Sample ID: SS02

Lab Sample ID: 890-1851-2

Date Collected: 01/20/22 11:26

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 17:37 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 136       | S1+       | 70 - 130 | 01/24/22 07:35 | 01/24/22 17:37 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS02

Lab Sample ID: 890-1851-2

Date Collected: 01/20/22 11:26

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 94        |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 17:37 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 24100  |           | 499 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <499      | U         | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:32 | 10      |
| Diesel Range Organics (Over C10-C28) | 24100     |           | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:32 | 10      |
| Oil Range Organics (Over C28-C36)    | <499      | U         | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:32 | 10      |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 129       |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 04:32 | 10      |
| o-Terphenyl                          | 207       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 04:32 | 10      |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1040   |           | 24.8 | mg/Kg |   |          | 01/24/22 17:01 | 5       |

Client Sample ID: SS03

Lab Sample ID: 890-1851-3

Date Collected: 01/20/22 11:28

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 19:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 19:27 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 13300  |           | 250 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS03

Lab Sample ID: 890-1851-3

Date Collected: 01/20/22 11:28

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <250      | U         | 250      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:55 | 5       |
| Diesel Range Organics (Over C10-C28) | 13300     |           | 250      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:55 | 5       |
| Oil Range Organics (Over C28-C36)    | <250      | U         | 250      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 04:55 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 125       |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 04:55 | 5       |
| o-Terphenyl                          | 131       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 04:55 | 5       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2910   |           | 25.2 | mg/Kg |   |          | 01/24/22 17:12 | 5       |

Client Sample ID: SS04

Lab Sample ID: 890-1851-4

Date Collected: 01/20/22 11:30

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 |       |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |       |   | 01/24/22 07:35 | 01/24/22 19:48 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 40500  |           | 500 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <500      | U         | 500      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:17 | 10      |
| Diesel Range Organics (Over C10-C28) | 40500     |           | 500      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:17 | 10      |
| Oil Range Organics (Over C28-C36)    | <500      | U         | 500      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:17 | 10      |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 151       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 05:17 | 10      |
| o-Terphenyl                          | 401       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 05:17 | 10      |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## Client Sample ID: SS04

Lab Sample ID: 890-1851-4

Date Collected: 01/20/22 11:30

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2060   |           | 24.9 | mg/Kg |   |          | 01/24/22 17:24 | 5       |

## Client Sample ID: SS05

Lab Sample ID: 890-1851-5

Date Collected: 01/20/22 11:32

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 139       | S1+       | 70 - 130 |       |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |       |   | 01/24/22 07:35 | 01/24/22 20:08 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Total TPH | 28400  |           | 499 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <499      | U         | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:37 | 10      |
| Diesel Range Organics (Over C10-C28) | 28400     |           | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:37 | 10      |
| Oil Range Organics (Over C28-C36)    | <499      | U         | 499      | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:37 | 10      |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 139       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 05:37 | 10      |
| o-Terphenyl                          | 244       | S1+       | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 05:37 | 10      |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2860   |           | 24.8 | mg/Kg |   |          | 01/24/22 17:36 | 5       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS06

Lab Sample ID: 890-1851-6

Date Collected: 01/20/22 11:34

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 138       | S1+       | 70 - 130 | 01/24/22 07:35 | 01/24/22 20:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 20:29 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 1840   |           | 49.9 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:58 | 1       |
| Diesel Range Organics (Over C10-C28) | 1840   |           | 49.9 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:58 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 01/25/22 15:06 | 01/26/22 05:58 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 01/25/22 15:06 | 01/26/22 05:58 | 1       |
| o-Terphenyl    | 113       |           | 70 - 130 | 01/25/22 15:06 | 01/26/22 05:58 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 10900  |           | 100 | mg/Kg |   |          | 01/24/22 18:12 | 20      |

Client Sample ID: SS07

Lab Sample ID: 890-1851-7

Date Collected: 01/20/22 11:38

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 20:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 146       | S1+       | 70 - 130 | 01/24/22 07:35 | 01/24/22 20:49 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS07

Lab Sample ID: 890-1851-7

Date Collected: 01/20/22 11:38

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 104       |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 20:49 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 1260   |           | 50.0 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:19 | 1       |
| Diesel Range Organics (Over C10-C28) | 1260      |           | 50.0     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:19 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:19 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 06:19 | 1       |
| o-Terphenyl                          | 99        |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 06:19 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6730   |           | 49.6 | mg/Kg |   |          | 01/24/22 18:23 | 10      |

Client Sample ID: SS08

Lab Sample ID: 890-1851-8

Date Collected: 01/20/22 11:41

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 21:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 121       |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 21:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 01/24/22 07:35 | 01/24/22 21:09 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 01/25/22 11:51 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 577    |           | 49.9 | mg/Kg |   |          | 01/24/22 16:43 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS08

Lab Sample ID: 890-1851-8

Date Collected: 01/20/22 11:41

Matrix: Solid

Date Received: 01/20/22 14:53

Sample Depth: 0.5

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

| Analyte                                     | Result     | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10        | <49.9      | U         | 49.9     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:40 | 1       |
| <b>Diesel Range Organics (Over C10-C28)</b> | <b>577</b> |           | 49.9     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:40 | 1       |
| OII Range Organics (Over C28-C36)           | <49.9      | U         | 49.9     | mg/Kg |   | 01/25/22 15:06 | 01/26/22 06:40 | 1       |
| Surrogate                                   | %Recovery  | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                              | 88         |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 06:40 | 1       |
| o-Terphenyl                                 | 100        |           | 70 - 130 |       |   | 01/25/22 15:06 | 01/26/22 06:40 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte         | Result      | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------------|-------------|-----------|-----|-------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>9760</b> |           | 100 | mg/Kg |   |          | 01/24/22 18:35 | 20      |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-1841-A-1-F MS                 | Matrix Spike           | 116                                            | 103               |
| 890-1841-A-1-G MSD                | Matrix Spike Duplicate | 112                                            | 95                |
| 890-1851-1                        | SS01                   | 128                                            | 102               |
| 890-1851-2                        | SS02                   | 136 S1+                                        | 94                |
| 890-1851-3                        | SS03                   | 118                                            | 91                |
| 890-1851-4                        | SS04                   | 139 S1+                                        | 109               |
| 890-1851-5                        | SS05                   | 139 S1+                                        | 96                |
| 890-1851-6                        | SS06                   | 138 S1+                                        | 98                |
| 890-1851-7                        | SS07                   | 146 S1+                                        | 104               |
| 890-1851-8                        | SS08                   | 121                                            | 99                |
| LCS 880-17525/1-A                 | Lab Control Sample     | 122                                            | 107               |
| LCSD 880-17525/2-A                | Lab Control Sample Dup | 123                                            | 108               |
| MB 880-17525/5-A                  | Method Blank           | 116                                            | 98                |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-1851-1              | SS01                   | 126                                            | 231 S1+           |
| 890-1851-2              | SS02                   | 129                                            | 207 S1+           |
| 890-1851-3              | SS03                   | 125                                            | 131 S1+           |
| 890-1851-4              | SS04                   | 151 S1+                                        | 401 S1+           |
| 890-1851-5              | SS05                   | 139 S1+                                        | 244 S1+           |
| 890-1851-6              | SS06                   | 102                                            | 113               |
| 890-1851-7              | SS07                   | 94                                             | 99                |
| 890-1851-8              | SS08                   | 88                                             | 100               |
| 890-1857-A-1-F MS       | Matrix Spike           | 90                                             | 86                |
| 890-1857-A-1-G MSD      | Matrix Spike Duplicate | 91                                             | 87                |
| LCS 880-17733/2-A       | Lab Control Sample     | 106                                            | 114               |
| LCSD 880-17733/3-A      | Lab Control Sample Dup | 121                                            | 127               |
| MB 880-17733/1-A        | Method Blank           | 90                                             | 101               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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

Lab Sample ID: MB 880-17525/5-A

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17525

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 01/24/22 07:35 | 01/24/22 14:04 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116          |              | 70 - 130 | 01/24/22 07:35 | 01/24/22 14:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 01/24/22 07:35 | 01/24/22 14:04 | 1       |

Lab Sample ID: LCS 880-17525/1-A

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17525

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09114    |               | mg/Kg |   | 91   | 70 - 130     |
| Toluene             | 0.100       | 0.09665    |               | mg/Kg |   | 97   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1011     |               | mg/Kg |   | 101  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1998     |               | mg/Kg |   | 100  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09689    |               | mg/Kg |   | 97   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 122           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107           |               | 70 - 130 |

Lab Sample ID: LCSD 880-17525/2-A

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17525

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09034     |                | mg/Kg |   | 90   | 70 - 130     | 1   | 35        |
| Toluene             | 0.100       | 0.09847     |                | mg/Kg |   | 98   | 70 - 130     | 2   | 35        |
| Ethylbenzene        | 0.100       | 0.1028      |                | mg/Kg |   | 103  | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2036      |                | mg/Kg |   | 102  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.1036      |                | mg/Kg |   | 104  | 70 - 130     | 7   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 123            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108            |                | 70 - 130 |

Lab Sample ID: 890-1841-A-1-F MS

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17525

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U                | 0.0996      | 0.08887   |              | mg/Kg |   | 88   | 70 - 130     |
| Toluene | <0.00202      | U                | 0.0996      | 0.09492   |              | mg/Kg |   | 94   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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

Lab Sample ID: 890-1841-A-1-F MS

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17525

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U                | 0.0996      | 0.09305   |              | mg/Kg |   | 93   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.199       | 0.1836    |              | mg/Kg |   | 92   | 70 - 130     |
| o-Xylene            | <0.00202      | U                | 0.0996      | 0.09100   |              | mg/Kg |   | 90   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 116          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 890-1841-A-1-G MSD

Matrix: Solid

Analysis Batch: 17527

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17525

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.08652    |               | mg/Kg |   | 86   | 70 - 130     | 3   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.09056    |               | mg/Kg |   | 89   | 70 - 130     | 5   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.09097    |               | mg/Kg |   | 91   | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.200       | 0.1826     |               | mg/Kg |   | 91   | 70 - 130     | 1   | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.08935    |               | mg/Kg |   | 88   | 70 - 130     | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 112           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

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

Lab Sample ID: MB 880-17733/1-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17733

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 01/25/22 15:06 | 01/25/22 21:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 01/25/22 15:06 | 01/25/22 21:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 01/25/22 15:06 | 01/25/22 21:23 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90           |              | 70 - 130 | 01/25/22 15:06 | 01/25/22 21:23 | 1       |
| o-Terphenyl    | 101          |              | 70 - 130 | 01/25/22 15:06 | 01/25/22 21:23 | 1       |

Lab Sample ID: LCS 880-17733/2-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17733

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 948.6      |               | mg/Kg |   | 95   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 1021       |               | mg/Kg |   | 102  | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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

Lab Sample ID: LCS 880-17733/2-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17733

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 106       |           | 70 - 130 |
| o-Terphenyl    | 114       |           | 70 - 130 |

Lab Sample ID: LCSD 880-17733/3-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17733

|                                      |           |           | Spike    | LCSD   | LCSD      |       |   |      | %Rec.    |     | RPD   |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000     | 996.4  |           | mg/Kg |   | 100  | 70 - 130 | 5   | 20    |
| Diesel Range Organics (Over C10-C28) |           |           | 1000     | 1102   |           | mg/Kg |   | 110  | 70 - 130 | 8   | 20    |
|                                      | LCSD      | LCSD      |          |        |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 121       |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 127       |           | 70 - 130 |        |           |       |   |      |          |     |       |

Lab Sample ID: 890-1857-A-1-F MS

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17733

|                                      | Sample    | Sample    | Spike    | MS     | MS        |       |   |      | %Rec.    |     |       |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U F1      | 997      | 1370   | F1        | mg/Kg |   | 137  | 70 - 130 |     |       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U F1      | 997      | 1360   | F1        | mg/Kg |   | 134  | 70 - 130 |     |       |
|                                      | MS        | MS        |          |        |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 86        |           | 70 - 130 |        |           |       |   |      |          |     |       |

Lab Sample ID: 890-1857-A-1-G MSD

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17733

|                                      | Sample    | Sample    | Spike    | MSD    | MSD       |       |   |      | %Rec.    |     | RPD   |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U F1      | 996      | 1375   | F1        | mg/Kg |   | 138  | 70 - 130 | 0   | 20    |
| Diesel Range Organics (Over C10-C28) | <49.9     | U F1      | 996      | 1357   | F1        | mg/Kg |   | 134  | 70 - 130 | 0   | 20    |
|                                      | MSD       | MSD       |          |        |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 91        |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 87        |           | 70 - 130 |        |           |       |   |      |          |     |       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17550/1-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 01/24/22 15:49 | 1       |

Lab Sample ID: LCS 880-17550/2-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 245.9         |                  | mg/Kg |   | 98   | 90 - 110        |

Lab Sample ID: LCSD 880-17550/3-A

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 245.7          |                   | mg/Kg |   | 98   | 90 - 110        | 0   | 20           |

Lab Sample ID: 890-1851-1 MS

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: SS01

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 1830             | F1                  | 1250           | 3227         | F1              | mg/Kg |   | 111  | 90 - 110        |

Lab Sample ID: 890-1851-1 MSD

Matrix: Solid

Analysis Batch: 17639

Client Sample ID: SS01

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 1830             | F1                  | 1250           | 3169          |                  | mg/Kg |   | 107  | 90 - 110        | 2   | 20           |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## GC VOA

## Prep Batch: 17525

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1851-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-2         | SS02                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-3         | SS03                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-4         | SS04                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-5         | SS05                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-6         | SS06                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-7         | SS07                   | Total/NA  | Solid  | 5035   |            |
| 890-1851-8         | SS08                   | Total/NA  | Solid  | 5035   |            |
| MB 880-17525/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-17525/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-17525/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-1841-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-1841-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 17527

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1851-1         | SS01                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-2         | SS02                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-3         | SS03                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-4         | SS04                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-5         | SS05                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-6         | SS06                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-7         | SS07                   | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1851-8         | SS08                   | Total/NA  | Solid  | 8021B  | 17525      |
| MB 880-17525/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 17525      |
| LCS 880-17525/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 17525      |
| LCSD 880-17525/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1841-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 17525      |
| 890-1841-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 17525      |

## Analysis Batch: 17693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1851-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-2    | SS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-3    | SS03             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-4    | SS04             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-5    | SS05             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-6    | SS06             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-7    | SS07             | Total/NA  | Solid  | Total BTEX |            |
| 890-1851-8    | SS08             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 17641

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1851-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-2    | SS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-3    | SS03             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-4    | SS04             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-5    | SS05             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-6    | SS06             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## GC Semi VOA (Continued)

## Analysis Batch: 17641 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1851-7    | SS07             | Total/NA  | Solid  | 8015 NM |            |
| 890-1851-8    | SS08             | Total/NA  | Solid  | 8015 NM |            |

## Analysis Batch: 17662

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1851-1         | SS01                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-2         | SS02                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-3         | SS03                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-4         | SS04                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-5         | SS05                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-6         | SS06                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-7         | SS07                   | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1851-8         | SS08                   | Total/NA  | Solid  | 8015B NM | 17733      |
| MB 880-17733/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 17733      |
| LCS 880-17733/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 17733      |
| LCSD 880-17733/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1857-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 17733      |
| 890-1857-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 17733      |

## Prep Batch: 17733

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1851-1         | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-2         | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-3         | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-4         | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-5         | SS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-6         | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-7         | SS07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1851-8         | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-17733/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-17733/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-17733/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1857-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1857-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## HPLC/IC

## Leach Batch: 17550

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1851-1         | SS01                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-2         | SS02                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-3         | SS03                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-4         | SS04                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-5         | SS05                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-6         | SS06                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-7         | SS07                   | Soluble   | Solid  | DI Leach |            |
| 890-1851-8         | SS08                   | Soluble   | Solid  | DI Leach |            |
| MB 880-17550/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-17550/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-17550/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1851-1 MS      | SS01                   | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## HPLC/IC (Continued)

## Leach Batch: 17550 (Continued)

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 890-1851-1 MSD | SS01             | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 17639

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1851-1         | SS01                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-2         | SS02                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-3         | SS03                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-4         | SS04                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-5         | SS05                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-6         | SS06                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-7         | SS07                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-8         | SS08                   | Soluble   | Solid  | 300.0  | 17550      |
| MB 880-17550/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 17550      |
| LCS 880-17550/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 17550      |
| LCSD 880-17550/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-1 MS      | SS01                   | Soluble   | Solid  | 300.0  | 17550      |
| 890-1851-1 MSD     | SS01                   | Soluble   | Solid  | 300.0  | 17550      |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS01

Lab Sample ID: 890-1851-1

Date Collected: 01/20/22 11:24

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 17:17       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 10              | 17662        | 01/26/22 04:09       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 17639        | 01/24/22 16:25       | CH      | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 890-1851-2

Date Collected: 01/20/22 11:26

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 17:37       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 10              | 17662        | 01/26/22 04:32       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 17639        | 01/24/22 17:01       | CH      | XEN MID |

Client Sample ID: SS03

Lab Sample ID: 890-1851-3

Date Collected: 01/20/22 11:28

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 19:27       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 17662        | 01/26/22 04:55       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 17639        | 01/24/22 17:12       | CH      | XEN MID |

Client Sample ID: SS04

Lab Sample ID: 890-1851-4

Date Collected: 01/20/22 11:30

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 19:48       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

## Client Sample ID: SS04

Lab Sample ID: 890-1851-4

Date Collected: 01/20/22 11:30

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 10              | 17662        | 01/26/22 05:17       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 17639        | 01/24/22 17:24       | CH      | XEN MID |

## Client Sample ID: SS05

Lab Sample ID: 890-1851-5

Date Collected: 01/20/22 11:32

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 20:08       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 10              | 17662        | 01/26/22 05:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 17639        | 01/24/22 17:36       | CH      | XEN MID |

## Client Sample ID: SS06

Lab Sample ID: 890-1851-6

Date Collected: 01/20/22 11:34

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 20:29       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 17662        | 01/26/22 05:58       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20              | 17639        | 01/24/22 18:12       | CH      | XEN MID |

## Client Sample ID: SS07

Lab Sample ID: 890-1851-7

Date Collected: 01/20/22 11:38

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 20:49       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 17662        | 01/26/22 06:19       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

Client Sample ID: SS07

Lab Sample ID: 890-1851-7

Date Collected: 01/20/22 11:38

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 10              | 17639        | 01/24/22 18:23       | CH      | XEN MID |

Client Sample ID: SS08

Lab Sample ID: 890-1851-8

Date Collected: 01/20/22 11:41

Matrix: Solid

Date Received: 01/20/22 14:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 17525        | 01/24/22 07:35       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 17527        | 01/24/22 21:09       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 17693        | 01/25/22 11:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 17641        | 01/24/22 16:43       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 17733        | 01/25/22 15:06       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 17662        | 01/26/22 06:40       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 17550        | 01/24/22 10:02       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 20              | 17639        | 01/24/22 18:35       | CH      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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   | T104704400-21-22      | 06-30-22        |

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

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



## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

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

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

Eurofins Carlsbad

## Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU 30BS 101H

Job ID: 890-1851-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1851-1    | SS01             | Solid  | 01/20/22 11:24 | 01/20/22 14:53 | 0.5   |
| 890-1851-2    | SS02             | Solid  | 01/20/22 11:26 | 01/20/22 14:53 | 0.5   |
| 890-1851-3    | SS03             | Solid  | 01/20/22 11:28 | 01/20/22 14:53 | 0.5   |
| 890-1851-4    | SS04             | Solid  | 01/20/22 11:30 | 01/20/22 14:53 | 0.5   |
| 890-1851-5    | SS05             | Solid  | 01/20/22 11:32 | 01/20/22 14:53 | 0.5   |
| 890-1851-6    | SS06             | Solid  | 01/20/22 11:34 | 01/20/22 14:53 | 0.5   |
| 890-1851-7    | SS07             | Solid  | 01/20/22 11:38 | 01/20/22 14:53 | 0.5   |
| 890-1851-8    | SS08             | Solid  | 01/20/22 11:41 | 01/20/22 14:53 | 0.5   |



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: \_\_\_\_\_

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Page 1 of 1

|                  |                                   |                         |                                                                |
|------------------|-----------------------------------|-------------------------|----------------------------------------------------------------|
| Project Manager: | Kalei Jennings                    | Bill to: (if different) | Adrian Baker                                                   |
| Company Name:    | WSP USA Inc., Permian office      | Company Name:           | XTO Energy                                                     |
| Address:         | 3300 North A St. Bldg 1, Unit 222 | Address:                | 3104 E. Greene St.                                             |
| City, State ZIP: | Midland, TX 79705                 | City, State ZIP:        | Carlsbad, NM                                                   |
| Phone:           | (432) 704-5178                    | Email:                  | travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@wsp.com |

|                                                                                                                                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Work Order Comments                                                                                                                                                                  |  |
| Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Crownfields <input type="checkbox"/> RC <input type="checkbox"/> Spentfund |  |
| State of Project: NM                                                                                                                                                                 |  |
| Reporting Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV                                                     |  |
| Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:                                                                            |  |

## ANALYSIS REQUEST

## Work Order Notes

|                       |                                                                           |                                                                        |         |
|-----------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------|
| Project Name:         | PLU 30BS 101H                                                             | Turn Around                                                            |         |
| Project Number:       |                                                                           | Routine X                                                              |         |
| P.O. Number:          |                                                                           | Rush:                                                                  |         |
| Sampler's Name:       | Travis Casey                                                              | Due Date:                                                              |         |
| <b>SAMPLE RECEIPT</b> | Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No | Wet Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No |         |
| Temperature (°C):     | 3.4/3.4                                                                   | Thermometer ID                                                         | 700-007 |
| Received Intact:      | <input checked="" type="radio"/> Yes <input type="radio"/> No             | Correction Factor:                                                     | -0.2    |
| Cooler Custody Seals: | Yes <input checked="" type="radio"/> No <input type="radio"/> N/A         | Total Containers:                                                      |         |
| Sample Custody Seals: | Yes <input checked="" type="radio"/> No <input type="radio"/> N/A         |                                                                        |         |



890-1851 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) | Analysis Results | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-----------------|----------------------|------------------|-----------------|
| SS01                  | S      | 1/20/2022    | 11:24        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS02                  | S      | 1/20/2022    | 11:26        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS03                  | S      | 1/20/2022    | 11:28        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS04                  | S      | 1/20/2022    | 11:30        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS05                  | S      | 1/20/2022    | 11:32        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS06                  | S      | 1/20/2022    | 11:34        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS07                  | S      | 1/20/2022    | 11:38        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |
| SS08                  | S      | 1/20/2022    | 11:41        | 0.5   | 1                    | X              | X               | X                    |                  | Composite       |

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 \$3 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>       | 1-20-22 1453 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |

## Eurofins Carlsbad

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

## Chain of Custody Record



**Environment Testing  
America**

|                                                                                                                                                                                                                                                                                                                                                                 |                      |                                     |                               |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|-------------------------------|-------------|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                    |                      | Sampler:                            | Lab PM:                       | COC No:     |
| Client Contact:                                                                                                                                                                                                                                                                                                                                                 |                      | Phone:                              | Kramer, Jessica               | 890-595-1   |
| Shipping/Receiving                                                                                                                                                                                                                                                                                                                                              |                      | E-Mail:                             | jessica.kramer@eurofinset.com |             |
| Company:                                                                                                                                                                                                                                                                                                                                                        |                      | Accreditations Required (See note): | State of Origin:              | Page:       |
| Eurofins Environment Testing South Centre                                                                                                                                                                                                                                                                                                                       |                      | NELAP - Louisiana, NELAP - Texas    | New Mexico                    | Page 1 of 1 |
| Address:                                                                                                                                                                                                                                                                                                                                                        | 1211 W. Florida Ave. | Due Date Requested:                 | 12/26/2022                    | Job #:      |
| City:                                                                                                                                                                                                                                                                                                                                                           | Midland              | TAT Requested (day/s):              |                               | 890-1851-1  |
| State, Zip:                                                                                                                                                                                                                                                                                                                                                     | TX, 79701            | PO #:                               |                               |             |
| Phone:                                                                                                                                                                                                                                                                                                                                                          | 432-704-5440(Tel)    | WO #:                               |                               |             |
| Email:                                                                                                                                                                                                                                                                                                                                                          |                      | Project #:                          | 890000004                     |             |
| Project Name:                                                                                                                                                                                                                                                                                                                                                   | PLU 30BS 101H        | SSOW#:                              |                               |             |
| Site:                                                                                                                                                                                                                                                                                                                                                           |                      |                                     |                               |             |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                               |                      |                                     |                               |             |
| SS01 (890-1851-1)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:24                               | Solid                         | 1           |
| SS02 (890-1851-2)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:26                               | Solid                         | 1           |
| SS03 (890-1851-3)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:28                               | Solid                         | 1           |
| SS04 (890-1851-4)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:30                               | Solid                         | 1           |
| SS05 (890-1851-5)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:32                               | Solid                         | 1           |
| SS06 (890-1851-6)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:34                               | Solid                         | 1           |
| SS07 (890-1851-7)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:38                               | Solid                         | 1           |
| SS08 (890-1851-8)                                                                                                                                                                                                                                                                                                                                               | 1/20/22              | 11:41                               | Solid                         | 1           |
| <b>Field Filtered Sample (Yes or No)</b>                                                                                                                                                                                                                                                                                                                        |                      |                                     |                               |             |
| <b>Perform MS/MSD (Yes or No)</b>                                                                                                                                                                                                                                                                                                                               |                      |                                     |                               |             |
| 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH                                                                                                                                                                                                                                                                                                                         |                      |                                     |                               |             |
| 8015MOD_Calc                                                                                                                                                                                                                                                                                                                                                    |                      |                                     |                               |             |
| 300_ORGFM_28D/DI_LEACH Chloride                                                                                                                                                                                                                                                                                                                                 |                      |                                     |                               |             |
| 8021B/5035FP_Calc (MOD) BTEX                                                                                                                                                                                                                                                                                                                                    |                      |                                     |                               |             |
| Total_BTEX_GCV                                                                                                                                                                                                                                                                                                                                                  |                      |                                     |                               |             |
| <b>Total Number of containers</b>                                                                                                                                                                                                                                                                                                                               |                      |                                     |                               |             |
| <b>Special Instructions/Note:</b>                                                                                                                                                                                                                                                                                                                               |                      |                                     |                               |             |
| <b>Preservation Codes:</b>                                                                                                                                                                                                                                                                                                                                      |                      |                                     |                               |             |
| A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amorph<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2SO3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>Z - other (specify) |                      |                                     |                               |             |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1851-1

SDG Number:

Login Number: 1851

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    |         |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1851-1

SDG Number:

Login Number: 1851

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Midland

List Creation: 01/24/22 08:28 AM

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





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2054-1

Laboratory SDG: 31403236.022.0129 TASK 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
3/22/2022 3:35:36 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto: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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1-       | Surrogate recovery exceeds control limits, low biased.   |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| 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 BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

### Job ID: 890-2054-1

### Laboratory: Eurofins Carlsbad

#### Narrative

#### Job Narrative 890-2054-1

#### Receipt

The sample was received on 3/8/2022 2:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21538 and analytical batch 880-21464 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21363 and analytical batch 880-21518 were outside control limits. Sample matrix interference and/or non-homogeneity are 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

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: SS09

Lab Sample ID: 890-2054-1

Date Collected: 03/07/22 13:40

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/14/22 12:48 | 03/15/22 03:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/14/22 12:48 | 03/15/22 03:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 111       |           | 70 - 130 | 03/14/22 12:48 | 03/15/22 03:01 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 03/15/22 11:48 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 51.5   |           | 49.9 | mg/Kg |   |          | 03/14/22 11:58 | 1       |

## Method: 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 F1 F2   | 49.9 | mg/Kg |   | 03/11/22 08:33 | 03/13/22 22:15 | 1       |
| Diesel Range Organics (Over C10-C28) | 51.5   | F1 F2     | 49.9 | mg/Kg |   | 03/11/22 08:33 | 03/13/22 22:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 03/11/22 08:33 | 03/13/22 22:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 03/11/22 08:33 | 03/13/22 22:15 | 1       |
| o-Terphenyl    | 113       |           | 70 - 130 | 03/11/22 08:33 | 03/13/22 22:15 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 188    |           | 4.95 | mg/Kg |   |          | 03/20/22 21:38 | 1       |

Eurofins Carlsbad

# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12097-A-1-S MS                | Matrix Spike           | 102                                            | 114               |
| 880-12097-A-1-T MSD               | Matrix Spike Duplicate | 98                                             | 103               |
| 890-2054-1                        | SS09                   | 106                                            | 111               |
| LCS 880-21538/1-A                 | Lab Control Sample     | 99                                             | 111               |
| LCSD 880-21538/2-A                | Lab Control Sample Dup | 101                                            | 111               |
| MB 880-21455/5-A                  | Method Blank           | 100                                            | 103               |
| MB 880-21538/5-A                  | Method Blank           | 102                                            | 104               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2054-1              | SS09             | 101                                            | 113               |
| 890-2054-1 MS           | SS09             | 89                                             | 91                |
| 890-2054-1 MSD          | SS09             | 71                                             | 69 S1-            |
| <b>Surrogate Legend</b> |                  |                                                |                   |
| 1CO = 1-Chlorooctane    |                  |                                                |                   |
| OTPH = o-Terphenyl      |                  |                                                |                   |

## 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       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-21363/2-A       | Lab Control Sample     | 89                                             | 94                |
| LCSD 880-21363/3-A      | Lab Control Sample Dup | 107                                            | 120               |
| MB 880-21363/1-A        | Method Blank           | 99                                             | 114               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

Eurofins Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21455/5-A

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21455

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/13/22 12:38 | 03/14/22 11:20 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 | 03/13/22 12:38 | 03/14/22 11:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 03/13/22 12:38 | 03/14/22 11:20 | 1       |

Lab Sample ID: MB 880-21538/5-A

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21538

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 12:48 | 03/14/22 22:13 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 03/14/22 12:48 | 03/14/22 22:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104          |              | 70 - 130 | 03/14/22 12:48 | 03/14/22 22:13 | 1       |

Lab Sample ID: LCS 880-21538/1-A

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21538

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09930    |               | mg/Kg |   | 99   | 70 - 130     |
| Toluene             | 0.100       | 0.09612    |               | mg/Kg |   | 96   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09423    |               | mg/Kg |   | 94   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1967     |               | mg/Kg |   | 98   | 70 - 130     |
| o-Xylene            | 0.100       | 0.09636    |               | mg/Kg |   | 96   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21538/2-A

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21538

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene | 0.100       | 0.09990     |                | mg/Kg |   | 100  | 70 - 130     | 1   | 35        |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCSD 880-21538/2-A

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21538

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09719     |                | mg/Kg |   | 97   | 70 - 130     | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09615     |                | mg/Kg |   | 96   | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2013      |                | mg/Kg |   | 101  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.09817     |                | mg/Kg |   | 98   | 70 - 130     | 2   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111            |                | 70 - 130 |

Lab Sample ID: 880-12097-A-1-S MS

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21538

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00202      | U F1 F2          | 0.0996      | 0.05823   | F1           | mg/Kg |   | 58   | 70 - 130     |
| Toluene             | <0.00202      | U F1             | 0.0996      | 0.03943   | F1           | mg/Kg |   | 40   | 70 - 130     |
| Ethylbenzene        | <0.00202      | U F1             | 0.0996      | 0.02269   | F1           | mg/Kg |   | 23   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.199       | 0.04966   | F1           | mg/Kg |   | 25   | 70 - 130     |
| o-Xylene            | <0.00202      | U F1             | 0.0996      | 0.02444   | F1           | mg/Kg |   | 25   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 114          |              | 70 - 130 |

Lab Sample ID: 880-12097-A-1-T MSD

Matrix: Solid

Analysis Batch: 21464

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21538

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U F1 F2          | 0.100       | 0.03510    | F1 F2         | mg/Kg |   | 35   | 70 - 130     | 50  | 35        |
| Toluene             | <0.00202      | U F1             | 0.100       | 0.03202    | F1            | mg/Kg |   | 32   | 70 - 130     | 21  | 35        |
| Ethylbenzene        | <0.00202      | U F1             | 0.100       | 0.02400    | F1            | mg/Kg |   | 24   | 70 - 130     | 6   | 35        |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.200       | 0.05301    | F1            | mg/Kg |   | 26   | 70 - 130     | 7   | 35        |
| o-Xylene            | <0.00202      | U F1             | 0.100       | 0.02706    | F1            | mg/Kg |   | 27   | 70 - 130     | 10  | 35        |

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

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

Lab Sample ID: MB 880-21363/1-A

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/11/22 08:33 | 03/13/22 21:11 | 1       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21363/1-A

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0        | U            | 50.0     | mg/Kg |   | 03/11/22 08:33 | 03/13/22 21:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 03/11/22 08:33 | 03/13/22 21:11 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 99           |              | 70 - 130 |       |   | 03/11/22 08:33 | 03/13/22 21:11 | 1       |
| o-Terphenyl                          | 114          |              | 70 - 130 |       |   | 03/11/22 08:33 | 03/13/22 21:11 | 1       |

Lab Sample ID: LCS 880-21363/2-A

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 925.1         |               | mg/Kg |   | 93   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000          | 832.3         |               | mg/Kg |   | 83   | 70 - 130     |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |              |
| 1-Chlorooctane                       | 89            |               | 70 - 130      |       |   |      |              |
| o-Terphenyl                          | 94            |               | 70 - 130      |       |   |      |              |

Lab Sample ID: LCSD 880-21363/3-A

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 982.0          |                | mg/Kg |   | 98   | 70 - 130     | 6   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 938.2          |                | mg/Kg |   | 94   | 70 - 130     | 12  | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 1-Chlorooctane                       | 107            |                | 70 - 130       |       |   |      |              |     |           |
| o-Terphenyl                          | 120            |                | 70 - 130       |       |   |      |              |     |           |

Lab Sample ID: 890-2054-1 MS

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: SS09

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U F1 F2          | 998         | 866.4     |              | mg/Kg |   | 84   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 51.5          | F1 F2            | 998         | 834.4     |              | mg/Kg |   | 78   | 70 - 130     |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 1-Chlorooctane                       | 89            |                  | 70 - 130    |           |              |       |   |      |              |
| o-Terphenyl                          | 91            |                  | 70 - 130    |           |              |       |   |      |              |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: 890-2054-1 MSD

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: SS09

Prep Type: Total/NA

Prep Batch: 21363

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U F1 F2          | 998         | 674.5      | F1 F2         | mg/Kg |   | 64   | 70 - 130     | 25  | 20        |
| Diesel Range Organics (Over C10-C28) | 51.5          | F1 F2            | 998         | 643.9      | F1 F2         | mg/Kg |   | 59   | 70 - 130     | 26  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 71            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 69            | S1-              | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21404/1-A

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 03/20/22 21:12 | 1       |

Lab Sample ID: LCS 880-21404/2-A

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 252.6      |               | mg/Kg |   | 101  | 90 - 110     |

Lab Sample ID: LCSD 880-21404/3-A

Matrix: Solid

Analysis Batch: 21967

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         | 254.6       |                | mg/Kg |   | 102  | 90 - 110     | 1   | 20        |

Lab Sample ID: 890-2054-1 MS

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: SS09

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 188           |                  | 248         | 432.6     |              | mg/Kg |   | 99   | 90 - 110     |

Lab Sample ID: 890-2054-1 MSD

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: SS09

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 188           |                  | 248         | 428.9      |               | mg/Kg |   | 97   | 90 - 110     | 1   | 20        |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Prep Batch: 21455

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-21455/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21464

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2054-1          | SS09                   | Total/NA  | Solid  | 8021B  | 21538      |
| MB 880-21455/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 21455      |
| MB 880-21538/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 21538      |
| LCS 880-21538/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21538      |
| LCSD 880-21538/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21538      |
| 880-12097-A-1-S MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21538      |
| 880-12097-A-1-T MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21538      |

## Prep Batch: 21538

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2054-1          | SS09                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21538/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21538/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21538/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12097-A-1-S MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-12097-A-1-T MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21651

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2054-1    | SS09             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 21363

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2054-1         | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21363/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21363/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21363/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2054-1 MS      | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2054-1 MSD     | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21518

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2054-1         | SS09                   | Total/NA  | Solid  | 8015B NM | 21363      |
| MB 880-21363/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21363      |
| LCS 880-21363/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21363      |
| LCSD 880-21363/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21363      |
| 890-2054-1 MS      | SS09                   | Total/NA  | Solid  | 8015B NM | 21363      |
| 890-2054-1 MSD     | SS09                   | Total/NA  | Solid  | 8015B NM | 21363      |

## Analysis Batch: 21525

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2054-1    | SS09             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

## HPLC/IC

## Leach Batch: 21404

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2054-1         | SS09                   | Soluble   | Solid  | DI Leach |            |
| MB 880-21404/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21404/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21404/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2054-1 MS      | SS09                   | Soluble   | Solid  | DI Leach |            |
| 890-2054-1 MSD     | SS09                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21967

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2054-1         | SS09                   | Soluble   | Solid  | 300.0  | 21404      |
| MB 880-21404/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21404      |
| LCS 880-21404/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21404      |
| LCSD 880-21404/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21404      |
| 890-2054-1 MS      | SS09                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2054-1 MSD     | SS09                   | Soluble   | Solid  | 300.0  | 21404      |



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

**Client Sample ID: SS09****Lab Sample ID: 890-2054-1****Date Collected: 03/07/22 13:40****Matrix: Solid****Date Received: 03/08/22 14:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21538        | 03/14/22 12:48       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21464        | 03/15/22 03:01       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21651        | 03/15/22 11:48       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21525        | 03/14/22 11:58       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21363        | 03/11/22 08:33       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21518        | 03/13/22 22:15       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 21:38       | CH      | XEN MID |

**Laboratory References:**

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

**Accreditation/Certification Summary**

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

**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   | T104704400-21-22      | 06-30-22        |

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

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

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

Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2054-1  
SDG: 31403236.022.0129 TASK 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2054-1    | SS09             | Solid  | 03/07/22 13:40 | 03/08/22 14:10 | 0.5   |

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



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  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)  
Hobbs, NM (575-392-7550)

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## Chain of Custody

**Work Order No:** \_\_\_\_\_

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

|                            |                                    |                                    |                                                                   |
|----------------------------|------------------------------------|------------------------------------|-------------------------------------------------------------------|
| <b>Work Order Comments</b> |                                    |                                    |                                                                   |
| Program: UST/PST           | <input type="checkbox"/> RP        | <input type="checkbox"/> Rowfields | <input type="checkbox"/> RC    \$perfund <input type="checkbox"/> |
| State of Project:          |                                    |                                    |                                                                   |
| Reporting Level II         | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST     | <input type="checkbox"/> RP    Level IV <input type="checkbox"/>  |
| Deliverables: EDD          | <input type="checkbox"/> ADaPT     | <input type="checkbox"/>           | Other: <input type="checkbox"/>                                   |

| Project Name:         |  |  |  | Turn Around                                                         |  |  |  | ANALYSIS REQUEST   |  |                                                                     |  |                                     |  |                                                                     |  |  |  |  |  | Work Order Notes |  |  |  |  |  |                                                               |  |                        |  |
|-----------------------|--|--|--|---------------------------------------------------------------------|--|--|--|--------------------|--|---------------------------------------------------------------------|--|-------------------------------------|--|---------------------------------------------------------------------|--|--|--|--|--|------------------|--|--|--|--|--|---------------------------------------------------------------|--|------------------------|--|
| Project Number:       |  |  |  | 31403236.022.0129 Task 10.02                                        |  |  |  | Routine            |  |                                                                     |  | <input checked="" type="checkbox"/> |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  |                                                               |  |                        |  |
| P.O. Number:          |  |  |  |                                                                     |  |  |  | Rush:              |  |                                                                     |  |                                     |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  |                                                               |  |                        |  |
| Sampler's Name:       |  |  |  | Mercy Rotich.                                                       |  |  |  | Due Date:          |  |                                                                     |  |                                     |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  | API: 30-015-46940                                             |  |                        |  |
| <b>SAMPLE RECEIPT</b> |  |  |  |                                                                     |  |  |  | Temp Blank:        |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  | Wet Ice:                            |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |  |  |  |  |                  |  |  |  |  |  |                                                               |  | AEE:DD:2017.01965 CAP. |  |
| Temperature (°C):     |  |  |  | 5-8/5.6                                                             |  |  |  | Thermometer ID     |  |                                                                     |  | NM-007                              |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  | CAP.01                                                        |  |                        |  |
| Received intact:      |  |  |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |  |  |                    |  |                                                                     |  |                                     |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  |                                                               |  |                        |  |
| Cooler Custody Seals: |  |  |  | Yes No <input checked="" type="checkbox"/> N/A                      |  |  |  | Correction Factor: |  |                                                                     |  | 0.2                                 |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  |                                                               |  |                        |  |
| Sample Custody Seals: |  |  |  | Yes No <input checked="" type="checkbox"/> N/A                      |  |  |  | Total Containers:  |  |                                                                     |  |                                     |  |                                                                     |  |  |  |  |  |                  |  |  |  |  |  | TAT starts the day received by the lab, if received by 4:30pm |  |                        |  |

[illegible]

| Total                   | 200.7 / 6010 | 200.8 / 6020 | Circle Method(s) and Metal(s) to be analyzed                                      |
|-------------------------|--------------|--------------|-----------------------------------------------------------------------------------|
| 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 II Sn U V Zn |
| 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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xeno. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| 1 <i>[Signature]</i>         | <i>[Signature]</i>       | 3-8-22/1410 | 2                            |                          |           |
| 3                            |                          |             | 4                            |                          |           |
| 5                            |                          |             | 6                            |                          |           |

Revised: DarenStats148 Rev. 2016

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2054-1

SDG Number: 31403236.022.0129 TASK 10.02

**Login Number: 2054****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    |         |



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2054-1

SDG Number: 31403236.022.0129 TASK 10.02

**Login Number: 2054****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 03/10/22 11:27 AM**

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



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2066-1

Laboratory SDG: 31403236.022.0129 TASK 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
4/4/2022 2:07:30 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| *1        | LCS/LCSD RPD exceeds control limits.                     |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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 BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

**Job ID: 890-2066-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2066-1****Receipt**

The sample was received on 3/11/2022 11:17 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-21654 and analytical batch 880-21609 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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

**HPLC/IC**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: SS12

Lab Sample ID: 890-2066-1

Date Collected: 03/09/22 13:02

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:52 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:52 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 03/21/22 15:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/16/22 08:25 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U *1      | 49.8 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 20:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 20:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 20:54 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 114       |           | 70 - 130 | 03/15/22 13:44 | 03/15/22 20:54 | 1       |
| o-Terphenyl    | 118       |           | 70 - 130 | 03/15/22 13:44 | 03/15/22 20:54 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | <499   | U         | 499 | mg/L |   |          | 03/31/22 10:51 | 50      |

Eurofins Carlsbad



## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2066-1                        | SS12                   | 106                                            | 105               |
| 890-2066-1 MS                     | SS12                   | 99                                             | 103               |
| 890-2066-1 MSD                    | SS12                   | 100                                            | 101               |
| LCS 880-21736/1-A                 | Lab Control Sample     | 100                                            | 103               |
| LCSD 880-21736/2-A                | Lab Control Sample Dup | 100                                            | 103               |
| MB 880-21736/5-A                  | Method Blank           | 96                                             | 100               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2066-1              | SS12                   | 114                                            | 118               |
| 890-2066-1 MS           | SS12                   | 90                                             | 80                |
| 890-2066-1 MSD          | SS12                   | 92                                             | 83                |
| LCS 880-21654/2-A       | Lab Control Sample     | 125                                            | 130               |
| LCSD 880-21654/3-A      | Lab Control Sample Dup | 115                                            | 125               |
| MB 880-21654/1-A        | Method Blank           | 96                                             | 100               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21736/5-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

Lab Sample ID: LCS 880-21736/1-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21736

| 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       | 0.1033     |               | mg/Kg |   | 103  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1042     |               | mg/Kg |   | 104  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2451     |               | mg/Kg |   | 123  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1184     |               | mg/Kg |   | 118  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21736/2-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130    | 4   | 35    |
| Toluene             | 0.100       | 0.1062      |                | mg/Kg |   | 106  | 70 - 130    | 3   | 35    |
| Ethylbenzene        | 0.100       | 0.1067      |                | mg/Kg |   | 107  | 70 - 130    | 2   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2520      |                | mg/Kg |   | 126  | 70 - 130    | 3   | 35    |
| o-Xylene            | 0.100       | 0.1223      |                | mg/Kg |   | 122  | 70 - 130    | 3   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 100            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103            |                | 70 - 130 |

Lab Sample ID: 890-2066-1 MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 21736

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202      | U                | 0.0998      | 0.1061    |              | mg/Kg |   | 106  | 70 - 130    |
| Toluene | <0.00202      | U                | 0.0998      | 0.09301   |              | mg/Kg |   | 93   | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: 890-2066-1 MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00202      | U                | 0.0998      | 0.08250   |              | mg/Kg |   | 83   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.200       | 0.1588    |              | mg/Kg |   | 80   | 70 - 130    |
| o-Xylene            | <0.00202      | U                | 0.0998      | 0.1174    |              | mg/Kg |   | 118  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 890-2066-1 MSD

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.09801    |               | mg/Kg |   | 98   | 70 - 130    | 8   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08717    |               | mg/Kg |   | 87   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07849    |               | mg/Kg |   | 78   | 70 - 130    | 5   | 35        |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.201       | 0.1425     |               | mg/Kg |   | 71   | 70 - 130    | 11  | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.1119     |               | mg/Kg |   | 111  | 70 - 130    | 5   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

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

Lab Sample ID: MB 880-21654/1-A

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21654

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 19:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 19:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 13:44 | 03/15/22 19:54 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 96           |              | 70 - 130 | 03/15/22 13:44 | 03/15/22 19:54 | 1       |
| o-Terphenyl    | 100          |              | 70 - 130 | 03/15/22 13:44 | 03/15/22 19:54 | 1       |

Lab Sample ID: LCS 880-21654/2-A

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21654

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1076       |               | mg/Kg |   | 108  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1203       |               | mg/Kg |   | 120  | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCS 880-21654/2-A

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21654

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

Lab Sample ID: LCSD 880-21654/3-A

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21654

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 874.0       | *1             | mg/Kg |   | 87   | 70 - 130    | 21  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1188        |                | mg/Kg |   | 119  | 70 - 130    | 1   | 20        |

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

Lab Sample ID: 890-2066-1 MS

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 21654

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U *1             | 998         | 879.9     |              | mg/Kg |   | 86   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 779.6     |              | mg/Kg |   | 76   | 70 - 130    |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 80        |           | 70 - 130 |

Lab Sample ID: 890-2066-1 MSD

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: SS12

Prep Type: Total/NA

Prep Batch: 21654

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U *1             | 999         | 888.4      |               | mg/Kg |   | 87   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 999         | 808.4      |               | mg/Kg |   | 78   | 70 - 130    | 4   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 83        |           | 70 - 130 |

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

|                              |               |                  |             |           |              |      |   |      |             |                        |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|------------------------|--|
| Lab Sample ID: 890-2066-1 MS |               |                  |             |           |              |      |   |      |             | Client Sample ID: SS12 |  |
| Matrix: Solid                |               |                  |             |           |              |      |   |      |             | Prep Type: Soluble     |  |
| Analysis Batch: 239815       |               |                  |             |           |              |      |   |      |             |                        |  |
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |                        |  |
| Chloride                     | <499          | U                | 19.9        | <497      | U 4          | mg/L |   | 116  | 90 - 110    |                        |  |

|                              |               |                  |  |           |              |      |   |  |     |                        |  |
|------------------------------|---------------|------------------|--|-----------|--------------|------|---|--|-----|------------------------|--|
| Lab Sample ID: 890-2066-1 DU |               |                  |  |           |              |      |   |  |     | Client Sample ID: SS12 |  |
| Matrix: Solid                |               |                  |  |           |              |      |   |  |     | Prep Type: Soluble     |  |
| Analysis Batch: 239815       |               |                  |  |           |              |      |   |  |     |                        |  |
| Analyte                      | Sample Result | Sample Qualifier |  | DU Result | DU Qualifier | Unit | D |  | RPD | RPD Limit              |  |
| Chloride                     | <499          | U                |  | <490      | U            | mg/L |   |  | 1   | 15                     |  |

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Prep Batch: 21736

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2066-1         | SS12                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2066-1 MS      | SS12                   | Total/NA  | Solid  | 5035   |            |
| 890-2066-1 MSD     | SS12                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21980

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2066-1         | SS12                   | Total/NA  | Solid  | 8021B  | 21736      |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21736      |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21736      |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-1 MS      | SS12                   | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-1 MSD     | SS12                   | Total/NA  | Solid  | 8021B  | 21736      |

## Analysis Batch: 22087

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2066-1    | SS12             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 21609

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2066-1         | SS12                   | Total/NA  | Solid  | 8015B NM | 21654      |
| MB 880-21654/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21654      |
| LCS 880-21654/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21654      |
| LCSD 880-21654/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21654      |
| 890-2066-1 MS      | SS12                   | Total/NA  | Solid  | 8015B NM | 21654      |
| 890-2066-1 MSD     | SS12                   | Total/NA  | Solid  | 8015B NM | 21654      |

## Prep Batch: 21654

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2066-1         | SS12                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21654/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21654/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21654/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2066-1 MS      | SS12                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2066-1 MSD     | SS12                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21687

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2066-1    | SS12             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 239246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2066-1    | SS12             | Soluble   | Solid  | DI Leach |            |
| 890-2066-1 MS | SS12             | Soluble   | Solid  | DI Leach |            |
| 890-2066-1 DU | SS12             | Soluble   | Solid  | DI Leach |            |

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QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

HPLC/IC

Analysis Batch: 239815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 890-2066-1    | SS12             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |
| 890-2066-1 MS | SS12             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |
| 890-2066-1 DU | SS12             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: SS12

Lab Sample ID: 890-2066-1

Date Collected: 03/09/22 13:02

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21736        | 03/18/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21980        | 03/21/22 11:52       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22087        | 03/21/22 15:27       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21687        | 03/16/22 08:25       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21654        | 03/15/22 13:44       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21609        | 03/15/22 20:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 239246       | 03/30/22 14:07       | F8AU    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239815       | 03/31/22 10:51       | Z7CH    | ELLE    |

## Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

## Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 1.01                  | 11-30-22        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-22        |
| Alaska                            | State                 | PA00009               | 06-30-22        |
| Alaska (UST)                      | State                 | 17-027                | 02-28-23        |
| Arizona                           | State                 | AZ0780                | 03-12-23        |
| Arkansas DEQ                      | State                 | 88-0660               | 08-10-22        |
| California                        | State                 | 2792                  | 02-02-22 *      |
| Colorado                          | State                 | PA00009               | 06-30-22        |
| Connecticut                       | State                 | PH-0746               | 06-30-23        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-23        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-23        |
| Florida                           | NELAP                 | E87997                | 06-30-22        |
| Georgia (DW)                      | State                 | C048                  | 01-31-22 *      |
| Hawaii                            | State                 | N/A                   | 01-31-23        |
| Illinois                          | NELAP                 | 200027                | 01-31-23        |
| Iowa                              | State                 | 361                   | 03-02-22 *      |
| Kansas                            | NELAP                 | E-10151               | 10-31-22        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-22        |
| Kentucky (UST)                    | State                 | 1.01                  | 11-30-22        |
| Kentucky (WW)                     | State                 | KY90088               | 01-01-23        |
| Louisiana                         | NELAP                 | 02055                 | 06-30-22        |
| Maine                             | State                 | 2019012               | 03-12-23        |
| Maryland                          | State                 | 100                   | 06-30-22        |
| Massachusetts                     | State                 | M-PA009               | 06-30-22        |
| Michigan                          | State                 | 9930                  | 01-31-23        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-22        |
| Missouri                          | State                 | 450                   | 01-31-25        |
| Montana (DW)                      | State                 | 0098                  | 01-01-23        |
| Montana (UST)                     | State                 | <cert No.>            | 02-01-23        |
| Nebraska                          | State                 | NE-OS-32-17           | 01-31-23        |
| New Hampshire                     | NELAP                 | 2730                  | 01-10-23        |
| New Jersey                        | NELAP                 | PA011                 | 06-30-22        |
| New York                          | NELAP                 | 10670                 | 04-01-22        |
| North Carolina (DW)               | State                 | 42705                 | 07-31-22        |
| North Carolina (WW/SW)            | State                 | 521                   | 12-31-22        |
| North Dakota                      | State                 | R-205                 | 01-31-23        |
| Oklahoma                          | NELAP                 | R-205                 | 08-31-22        |
| Oregon                            | NELAP                 | PA200001              | 09-11-22        |
| PALA                              | Canada                | 1978                  | 09-16-24        |
| Pennsylvania                      | NELAP                 | 36-00037              | 01-31-23        |
| Rhode Island                      | State                 | LAO00338              | 12-30-22        |
| South Carolina                    | State                 | 89002                 | 01-31-23        |
| Tennessee                         | State                 | 02838                 | 01-31-22 *      |
| Texas                             | NELAP                 | T104704194-21-40      | 08-31-22        |
| Vermont                           | State                 | VT - 36037            | 10-28-22        |
| Virginia                          | NELAP                 | 460182                | 06-14-22        |
| Washington                        | State                 | C457                  | 04-12-22        |
| West Virginia (DW)                | State                 | 9906 C                | 12-31-22        |
| West Virginia DEP                 | State                 | 055                   | 04-30-22        |
| Wyoming                           | State                 | 8TMS-L                | 01-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority     | Program | Identification Number | Expiration Date |
|---------------|---------|-----------------------|-----------------|
| Wyoming (UST) | A2LA    | 1.01                  | 11-30-22        |

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   | T104704400-21-22      | 06-30-22        |

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

| Method         | Method Description                 | Protocol | Laboratory |
|----------------|------------------------------------|----------|------------|
| 8021B          | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX     | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM        | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM       | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| EPA 300.0 R2.1 | Anions, Ion Chromatography         | EPA      | ELLE       |
| 5035           | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep    | Microextraction                    | SW846    | XEN MID    |
| DI Leach       | Deionized Water Leaching Procedure | ASTM     | ELLE       |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2066-1  
SDG: 31403236.022.0129 TASK 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2066-1    | SS12             | Solid  | 03/09/22 13:02 | 03/11/22 11:17 | 1     |

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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)555-3443 Lubbock, TX (806)794-1296  
Phoenix, AZ (480-335-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 932-7550  
Albuquerque, NM (505-392-7550)

## Chain of Custody

**Work Order No.:**

Page 1 of 1

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

| Work Order Comments |                                    |                                |                                      |                                   |                                     |                          |  |  |  |
|---------------------|------------------------------------|--------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|--------------------------|--|--|--|
| Program: UST/PST    |                                    | <input type="checkbox"/> RP    | <input type="checkbox"/> Crownfields | <input type="checkbox"/> RC       | <input type="checkbox"/> \$operfund | <input type="checkbox"/> |  |  |  |
| State of Project:   |                                    |                                |                                      |                                   |                                     |                          |  |  |  |
| Reporting Level II  | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST | <input type="checkbox"/> RP          | <input type="checkbox"/> Level IV | <input type="checkbox"/>            |                          |  |  |  |
| Deliverables: EDD   | <input type="checkbox"/>           | ADAPT                          | <input type="checkbox"/>             | Other:                            |                                     |                          |  |  |  |

|                       |                                                                                 |                                                                              |                  |                                                                                                                   |                                                       |                                                               |
|-----------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| Project Name:         | PLU BS 101H                                                                     | Turn Around                                                                  | ANALYSIS REQUEST | <br>890-2066 Chain of Custody | API: 30-015-46940<br>AFE:DD:2017.01965.CAP.<br>CAP.01 | TAT starts the day received by the lab, if received by 4:30pm |
| Project Number:       | 31403236.022.0129 Task 10.02                                                    | Routine <input checked="" type="checkbox"/>                                  |                  |                                                                                                                   |                                                       |                                                               |
| P.O. Number:          |                                                                                 | Rush:                                                                        |                  |                                                                                                                   |                                                       |                                                               |
| Sampler's Name:       | Mericy Rotich.                                                                  | Due Date:                                                                    |                  |                                                                                                                   |                                                       |                                                               |
| SAMPLE RECEIPT        | Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                  |                                                                                                                   |                                                       |                                                               |
| Temperature (°C):     | 5.6/5.4                                                                         | Thermometer ID                                                               |                  |                                                                                                                   |                                                       |                                                               |
| Received Intact:      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No             |                                                                              |                  |                                                                                                                   |                                                       |                                                               |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No             | Correction Factor:                                                           |                  |                                                                                                                   |                                                       |                                                               |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No             | Total Containers:                                                            |                  |                                                                                                                   |                                                       |                                                               |
| Number of Containers  |                                                                                 |                                                                              |                  |                                                                                                                   |                                                       |                                                               |
| EPA 8015)             |                                                                                 |                                                                              |                  |                                                                                                                   |                                                       |                                                               |
| EPA 0=8021)           |                                                                                 |                                                                              |                  |                                                                                                                   |                                                       |                                                               |
| le (EPA 300.0)        |                                                                                 |                                                                              |                  |                                                                                                                   |                                                       |                                                               |

[illegible]

| Total                        | 200.7 / 6010 | 200.8 / 6020:    |
|------------------------------|--------------|------------------|
| 8RCRA                        | 13PPM        | Texas 11         |
| Al                           | Sb           | As               |
| Ba                           | Be           | B                |
| Cd                           | Ca           | Cr               |
| Co                           | Cu           | Fe               |
| Pb                           | Mg           | Mn               |
| Mo                           | Ni           | K                |
| Se                           | Ag           | SiO <sub>2</sub> |
| Na                           | Sr           | Tl               |
| Sn                           | U            | V                |
| Zn                           |              |                  |
| TCLP / SPLP 6010:            | 8RCRA        | Sb               |
| As                           | Ba           | Be               |
| Cd                           | Cr           | Co               |
| Cu                           | Pb           | Mn               |
| Mo                           | Ni           | Se               |
| Ag                           | Tl           | 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 |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 <i>Muga</i>                | <i>C. Lee (M)</i>        | 3/12/2011 | 2                            |                          |           |
| 3                            |                          |           | 4                            |                          |           |
|                              |                          |           | 5                            |                          |           |

## Eurofins Midland

1211 W. Florida Ave  
Midland, TX 79701  
Phone: 432-704-5440

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2066-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2066

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    |         |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2066-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2066

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 3

List Creation: 03/25/22 01:47 PM

Creator: Bryan, Debra A

| Question                                                                          | Answer | Comment                            |
|-----------------------------------------------------------------------------------|--------|------------------------------------|
| The cooler's custody seal is 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 ( $\leq 6^{\circ}\text{C}$ , not frozen).        | True   |                                    |
| Cooler Temperature is recorded.                                                   | True   |                                    |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                    |
| WV: Container Temperature is recorded.                                            | N/A    |                                    |
| COC is present.                                                                   | True   |                                    |
| COC is filled out in ink and legible.                                             | True   |                                    |
| COC is filled out with all pertinent information.                                 | True   |                                    |
| There are no discrepancies between the containers received and the COC.           | 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   |                                    |
| There is sufficient vol. for all requested analyses.                              | True   |                                    |
| Is the Field Sampler's name present on COC?                                       | False  | Received project as a subcontract. |
| Sample custody seals are intact.                                                  | N/A    |                                    |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2066-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2066

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/15/22 09:00 AM

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





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2067-1  
Laboratory SDG: 31403236.022.0129 TASK10.02  
Client Project/Site: PLU BS 101H

For:  
WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
4/4/2022 12:43:01 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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 BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

---

**Job ID: 890-2067-1**

---

**Laboratory: Eurofins Carlsbad**

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**Narrative**

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**Job Narrative  
890-2067-1****Receipt**

The sample was received on 3/11/2022 11:17 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

**GC VOA**

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

**GC Semi VOA**

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

**HPLC/IC**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

Client Sample ID: SS11

Lab Sample ID: 890-2067-1

Date Collected: 03/09/22 13:50

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 12:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 12:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/21/22 15:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 98.4   |           | 49.9 | mg/Kg |   |          | 03/16/22 08:54 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 17:30 | 1       |
| Diesel Range Organics (Over C10-C28) | 98.4   |           | 49.9 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 17:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 17:30 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 90        |           | 70 - 130 | 03/15/22 08:41 | 03/15/22 17:30 | 1       |
| o-Terphenyl    | 87        |           | 70 - 130 | 03/15/22 08:41 | 03/15/22 17:30 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | <500   | U         | 500 | mg/L |   |          | 03/31/22 11:57 | 50      |

Eurofins Carlsbad

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2066-A-1-H MS                 | Matrix Spike           | 99                                             | 103               |
| 890-2066-A-1-I MSD                | Matrix Spike Duplicate | 100                                            | 101               |
| 890-2067-1                        | SS11                   | 109                                            | 104               |
| LCS 880-21736/1-A                 | Lab Control Sample     | 100                                            | 103               |
| LCSD 880-21736/2-A                | Lab Control Sample Dup | 100                                            | 103               |
| MB 880-21736/5-A                  | Method Blank           | 96                                             | 100               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12419-A-1-B MS      | Matrix Spike           | 110                                            | 94                |
| 880-12419-A-1-C MSD     | Matrix Spike Duplicate | 117                                            | 103               |
| 890-2067-1              | SS11                   | 90                                             | 87                |
| LCS 880-21614/2-A       | Lab Control Sample     | 98                                             | 92                |
| LCSD 880-21614/3-A      | Lab Control Sample Dup | 95                                             | 90                |
| MB 880-21614/1-A        | Method Blank           | 116                                            | 128               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

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

Lab Sample ID: MB 880-21736/5-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

Lab Sample ID: LCS 880-21736/1-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21736

| 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       | 0.1033     |               | mg/Kg |   | 103  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1042     |               | mg/Kg |   | 104  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2451     |               | mg/Kg |   | 123  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1184     |               | mg/Kg |   | 118  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21736/2-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130    | 4   | 35        |
| Toluene             | 0.100       | 0.1062      |                | mg/Kg |   | 106  | 70 - 130    | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.1067      |                | mg/Kg |   | 107  | 70 - 130    | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2520      |                | mg/Kg |   | 126  | 70 - 130    | 3   | 35        |
| o-Xylene            | 0.100       | 0.1223      |                | mg/Kg |   | 122  | 70 - 130    | 3   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 100            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103            |                | 70 - 130 |

Lab Sample ID: 890-2066-A-1-H MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21736

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00202      | U                | 0.0998      | 0.1061    |              | mg/Kg |   | 106  | 70 - 130    |
| Toluene | <0.00202      | U                | 0.0998      | 0.09301   |              | mg/Kg |   | 93   | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

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

Lab Sample ID: 890-2066-A-1-H MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00202      | U                | 0.0998      | 0.08250   |              | mg/Kg |   | 83   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.200       | 0.1588    |              | mg/Kg |   | 80   | 70 - 130    |
| o-Xylene            | <0.00202      | U                | 0.0998      | 0.1174    |              | mg/Kg |   | 118  | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 890-2066-A-1-I MSD

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.09801    |               | mg/Kg |   | 98   | 70 - 130    | 8   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08717    |               | mg/Kg |   | 87   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07849    |               | mg/Kg |   | 78   | 70 - 130    | 5   | 35        |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.201       | 0.1425     |               | mg/Kg |   | 71   | 70 - 130    | 11  | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.1119     |               | mg/Kg |   | 111  | 70 - 130    | 5   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

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

Lab Sample ID: MB 880-21614/1-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21614

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 116          |              | 70 - 130 | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| o-Terphenyl    | 128          |              | 70 - 130 | 03/15/22 08:41 | 03/15/22 10:25 | 1       |

Lab Sample ID: LCS 880-21614/2-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21614

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1041       |               | mg/Kg |   | 104  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 916.3      |               | mg/Kg |   | 92   | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

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

Lab Sample ID: LCS 880-21614/2-A  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 21614

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 92        |           | 70 - 130 |

Lab Sample ID: LCSD 880-21614/3-A  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1058        |                | mg/Kg |   | 106  | 70 - 130    | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 871.6       |                | mg/Kg |   | 87   | 70 - 130    | 5   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 90        |           | 70 - 130 |

Lab Sample ID: 880-12419-A-1-B MS  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1176      |              | mg/Kg |   | 118  | 70 - 130    |     |           |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 1119      |              | mg/Kg |   | 107  | 70 - 130    |     |           |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 110       |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

Lab Sample ID: 880-12419-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1146       |               | mg/Kg |   | 115  | 70 - 130    | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 1193       |               | mg/Kg |   | 115  | 70 - 130    | 6   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 117       |           | 70 - 130 |
| o-Terphenyl    | 103       |           | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: 890-2067-1 MS

Matrix: Solid

Analysis Batch: 239815

Client Sample ID: SS11

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| Chloride | <500             | U                   | 20.2           | <504         | U 4             | mg/L |   | -93  | 90 - 110       |

Lab Sample ID: 890-2067-1 DU

Matrix: Solid

Analysis Batch: 239815

Client Sample ID: SS11

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|----------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Chloride | <500             | U                   | <496         | U               | mg/L |   | 13  | 15           |

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

## GC VOA

## Prep Batch: 21736

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2067-1         | SS11                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2066-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2066-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21980

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2067-1         | SS11                   | Total/NA  | Solid  | 8021B  | 21736      |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21736      |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21736      |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21736      |

## Analysis Batch: 22088

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2067-1    | SS11             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 21611

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2067-1          | SS11                   | Total/NA  | Solid  | 8015B NM | 21614      |
| MB 880-21614/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 21614      |
| LCS 880-21614/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21614      |
| LCSD 880-21614/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21614      |
| 880-12419-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21614      |
| 880-12419-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21614      |

## Prep Batch: 21614

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2067-1          | SS11                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21614/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21614/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21614/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12419-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12419-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2067-1    | SS11             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 239246

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2067-1    | SS11             | Soluble   | Solid  | DI Leach |            |
| 890-2067-1 MS | SS11             | Soluble   | Solid  | DI Leach |            |
| 890-2067-1 DU | SS11             | Soluble   | Solid  | DI Leach |            |

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QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

HPLC/IC

Analysis Batch: 239815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 890-2067-1    | SS11             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |
| 890-2067-1 MS | SS11             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |
| 890-2067-1 DU | SS11             | Soluble   | Solid  | EPA 300.0 R2.1 | 239246     |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

Client Sample ID: SS11

Lab Sample ID: 890-2067-1

Date Collected: 03/09/22 13:50

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21736        | 03/18/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21980        | 03/21/22 12:13       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22088        | 03/21/22 15:27       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21693        | 03/16/22 08:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21614        | 03/15/22 08:41       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21611        | 03/15/22 17:30       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 239246       | 03/30/22 14:07       | F8AU    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239815       | 03/31/22 11:57       | Z7CH    | ELLE    |

## Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

## Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 1.01                  | 11-30-22        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-22        |
| Alaska                            | State                 | PA00009               | 06-30-22        |
| Alaska (UST)                      | State                 | 17-027                | 02-28-23        |
| Arizona                           | State                 | AZ0780                | 03-12-23        |
| Arkansas DEQ                      | State                 | 88-0660               | 08-10-22        |
| California                        | State                 | 2792                  | 02-02-22 *      |
| Colorado                          | State                 | PA00009               | 06-30-22        |
| Connecticut                       | State                 | PH-0746               | 06-30-23        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-23        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-23        |
| Florida                           | NELAP                 | E87997                | 06-30-22        |
| Georgia (DW)                      | State                 | C048                  | 01-31-22 *      |
| Hawaii                            | State                 | N/A                   | 01-31-23        |
| Illinois                          | NELAP                 | 200027                | 01-31-23        |
| Iowa                              | State                 | 361                   | 03-02-22 *      |
| Kansas                            | NELAP                 | E-10151               | 10-31-22        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-22        |
| Kentucky (UST)                    | State                 | 1.01                  | 11-30-22        |
| Kentucky (WW)                     | State                 | KY90088               | 01-01-23        |
| Louisiana                         | NELAP                 | 02055                 | 06-30-22        |
| Maine                             | State                 | 2019012               | 03-12-23        |
| Maryland                          | State                 | 100                   | 06-30-22        |
| Massachusetts                     | State                 | M-PA009               | 06-30-22        |
| Michigan                          | State                 | 9930                  | 01-31-23        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-22        |
| Missouri                          | State                 | 450                   | 01-31-25        |
| Montana (DW)                      | State                 | 0098                  | 01-01-23        |
| Montana (UST)                     | State                 | <cert No.>            | 02-01-23        |
| Nebraska                          | State                 | NE-OS-32-17           | 01-31-23        |
| New Hampshire                     | NELAP                 | 2730                  | 01-10-23        |
| New Jersey                        | NELAP                 | PA011                 | 06-30-22        |
| New York                          | NELAP                 | 10670                 | 04-01-22        |
| North Carolina (DW)               | State                 | 42705                 | 07-31-22        |
| North Carolina (WW/SW)            | State                 | 521                   | 12-31-22        |
| North Dakota                      | State                 | R-205                 | 01-31-23        |
| Oklahoma                          | NELAP                 | R-205                 | 08-31-22        |
| Oregon                            | NELAP                 | PA200001              | 09-11-22        |
| PALA                              | Canada                | 1978                  | 09-16-24        |
| Pennsylvania                      | NELAP                 | 36-00037              | 01-31-23        |
| Rhode Island                      | State                 | LAO00338              | 12-30-22        |
| South Carolina                    | State                 | 89002                 | 01-31-23        |
| Tennessee                         | State                 | 02838                 | 01-31-22 *      |
| Texas                             | NELAP                 | T104704194-21-40      | 08-31-22        |
| Vermont                           | State                 | VT - 36037            | 10-28-22        |
| Virginia                          | NELAP                 | 460182                | 06-14-22        |
| Washington                        | State                 | C457                  | 04-12-22        |
| West Virginia (DW)                | State                 | 9906 C                | 12-31-22        |
| West Virginia DEP                 | State                 | 055                   | 04-30-22        |
| Wyoming                           | State                 | 8TMS-L                | 01-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Carlsbad

**Accreditation/Certification Summary**

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

**Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority     | Program | Identification Number | Expiration Date |
|---------------|---------|-----------------------|-----------------|
| Wyoming (UST) | A2LA    | 1.01                  | 11-30-22        |

**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   | T104704400-21-22      | 06-30-22        |

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

| Method         | Method Description                 | Protocol | Laboratory |
|----------------|------------------------------------|----------|------------|
| 8021B          | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX     | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM        | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM       | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| EPA 300.0 R2.1 | Anions, Ion Chromatography         | EPA      | ELLE       |
| 5035           | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep    | Microextraction                    | SW846    | XEN MID    |
| DI Leach       | Deionized Water Leaching Procedure | ASTM     | ELLE       |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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



Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2067-1  
SDG: 31403236.022.0129 TASK10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2067-1    | SS11             | Solid  | 03/09/22 13:50 | 03/11/22 11:17 | 1     |

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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) 586-3443 Lubbock, TX (806) 794-1296  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3333  
Hobbs, NM (575-392-7750)

Work Order No: \_\_\_\_\_

Page 1 of 1

[www.xeneco.com](http://www.xeneco.com)

## Chain of Custody

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

| Work Order Comments |  |                                    |                                     |                             |                                    |                          |  |  |  |
|---------------------|--|------------------------------------|-------------------------------------|-----------------------------|------------------------------------|--------------------------|--|--|--|
| Program: UST/PT     |  | <input type="checkbox"/> RP        | <input type="checkbox"/> Growfields | <input type="checkbox"/> RC | <input type="checkbox"/> Superfund | <input type="checkbox"/> |  |  |  |
| State of Project:   |  |                                    |                                     |                             |                                    |                          |  |  |  |
| Reporting Level II  |  | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST      | <input type="checkbox"/> RP | <input type="checkbox"/> Level IV  | <input type="checkbox"/> |  |  |  |
| Deliverables: EDD   |  | <input type="checkbox"/>           | Adapt                               | <input type="checkbox"/>    | Other:                             |                          |  |  |  |

[illegible]

## Eurofins Midland

1211 W. Florida Ave  
Midland, TX 79701  
Phone: 432-704-5440

## Chain of Custody Record



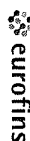
## Environment Testing America

[illegible]

Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220

## Chain of Custody Record



**Environment Testing  
America**

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2067-1

SDG Number: 31403236.022.0129 TASK10.02

Login Number: 2067

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | 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    |         |



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2067-1

SDG Number: 31403236.022.0129 TASK10.02

Login Number: 2067

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 3

List Creation: 03/25/22 01:47 PM

Creator: Bryan, Debra A

| Question                                                                          | Answer | Comment                            |
|-----------------------------------------------------------------------------------|--------|------------------------------------|
| The cooler's custody seal is 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 ( $\leq 6^{\circ}\text{C}$ , not frozen).        | True   |                                    |
| Cooler Temperature is recorded.                                                   | True   |                                    |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                    |
| WV: Container Temperature is recorded.                                            | N/A    |                                    |
| COC is present.                                                                   | True   |                                    |
| COC is filled out in ink and legible.                                             | True   |                                    |
| COC is filled out with all pertinent information.                                 | True   |                                    |
| There are no discrepancies between the containers received and the COC.           | 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   |                                    |
| There is sufficient vol. for all requested analyses.                              | True   |                                    |
| Is the Field Sampler's name present on COC?                                       | False  | Received project as a subcontract. |
| Sample custody seals are intact.                                                  | N/A    |                                    |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2067-1

SDG Number: 31403236.022.0129 TASK10.02

Login Number: 2067

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/14/22 08:17 AM

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





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2069-1

Laboratory SDG: 31403236.022.0129 TASK 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
3/31/2022 1:10:57 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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 BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

Job ID: 890-2069-1

Laboratory: Eurofins Carlsbad

| Narrative | Job Narrative<br>890-2069-1 |
|-----------|-----------------------------|
|-----------|-----------------------------|

Receipt

The sample was received on 3/11/2022 11:17 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: SS08

Lab Sample ID: 890-2069-1

Date Collected: 03/09/22 12:34

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 12:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 12:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/18/22 16:00 | 03/21/22 12:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/21/22 15:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 67.3   |           | 49.8 | mg/Kg |   |          | 03/16/22 08:54 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 18:12 | 1       |
| Diesel Range Organics (Over C10-C28) | 67.3   |           | 49.8 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 18:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 18:12 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 03/15/22 08:41 | 03/15/22 18:12 | 1       |
| o-Terphenyl    | 101       |           | 70 - 130 | 03/15/22 08:41 | 03/15/22 18:12 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 67.6   |           | 50.7 | mg/L |   |          | 03/30/22 18:10 | 5       |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2066-A-1-H MS                 | Matrix Spike           | 99                                             | 103               |
| 890-2066-A-1-I MSD                | Matrix Spike Duplicate | 100                                            | 101               |
| 890-2069-1                        | SS08                   | 108                                            | 104               |
| LCS 880-21736/1-A                 | Lab Control Sample     | 100                                            | 103               |
| LCSD 880-21736/2-A                | Lab Control Sample Dup | 100                                            | 103               |
| MB 880-21736/5-A                  | Method Blank           | 96                                             | 100               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12419-A-1-B MS      | Matrix Spike           | 110                                            | 94                |
| 880-12419-A-1-C MSD     | Matrix Spike Duplicate | 117                                            | 103               |
| 890-2069-1              | SS08                   | 100                                            | 101               |
| LCS 880-21614/2-A       | Lab Control Sample     | 98                                             | 92                |
| LCSD 880-21614/3-A      | Lab Control Sample Dup | 95                                             | 90                |
| MB 880-21614/1-A        | Method Blank           | 116                                            | 128               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21736/5-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96           |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 03/18/22 16:00 | 03/21/22 11:23 | 1       |

Lab Sample ID: LCS 880-21736/1-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21736

| 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       | 0.1033     |               | mg/Kg |   | 103  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1042     |               | mg/Kg |   | 104  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2451     |               | mg/Kg |   | 123  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1184     |               | mg/Kg |   | 118  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21736/2-A

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.1081      |                | mg/Kg |   | 108  | 70 - 130     | 4   | 35    |
| Toluene             | 0.100       | 0.1062      |                | mg/Kg |   | 106  | 70 - 130     | 3   | 35    |
| Ethylbenzene        | 0.100       | 0.1067      |                | mg/Kg |   | 107  | 70 - 130     | 2   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2520      |                | mg/Kg |   | 126  | 70 - 130     | 3   | 35    |
| o-Xylene            | 0.100       | 0.1223      |                | mg/Kg |   | 122  | 70 - 130     | 3   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 100            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103            |                | 70 - 130 |

Lab Sample ID: 890-2066-A-1-H MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21736

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U                | 0.0998      | 0.1061    |              | mg/Kg |   | 106  | 70 - 130     |
| Toluene | <0.00202      | U                | 0.0998      | 0.09301   |              | mg/Kg |   | 93   | 70 - 130     |

Eurofins Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: 890-2066-A-1-H MS

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U                | 0.0998      | 0.08250   |              | mg/Kg |   | 83   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.200       | 0.1588    |              | mg/Kg |   | 80   | 70 - 130     |
| o-Xylene            | <0.00202      | U                | 0.0998      | 0.1174    |              | mg/Kg |   | 118  | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 890-2066-A-1-I MSD

Matrix: Solid

Analysis Batch: 21980

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21736

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.09801    |               | mg/Kg |   | 98   | 70 - 130     | 8   | 35        |
| Toluene             | <0.00202      | U                | 0.100       | 0.08717    |               | mg/Kg |   | 87   | 70 - 130     | 6   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.07849    |               | mg/Kg |   | 78   | 70 - 130     | 5   | 35        |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.201       | 0.1425     |               | mg/Kg |   | 71   | 70 - 130     | 11  | 35        |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.1119     |               | mg/Kg |   | 111  | 70 - 130     | 5   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

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

Lab Sample ID: MB 880-21614/1-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21614

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/15/22 08:41 | 03/15/22 10:25 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 116          |              | 70 - 130 | 03/15/22 08:41 | 03/15/22 10:25 | 1       |
| o-Terphenyl    | 128          |              | 70 - 130 | 03/15/22 08:41 | 03/15/22 10:25 | 1       |

Lab Sample ID: LCS 880-21614/2-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21614

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1041       |               | mg/Kg |   | 104  | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 916.3      |               | mg/Kg |   | 92   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCS 880-21614/2-A  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 21614

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 92        |           | 70 - 130 |

Lab Sample ID: LCSD 880-21614/3-A  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1058        |                | mg/Kg |   | 106  | 70 - 130     | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 871.6       |                | mg/Kg |   | 87   | 70 - 130     | 5   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 95        |           | 70 - 130 |
| o-Terphenyl    | 90        |           | 70 - 130 |

Lab Sample ID: 880-12419-A-1-B MS  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1176      |              | mg/Kg |   | 118  | 70 - 130     |     |           |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 1119      |              | mg/Kg |   | 107  | 70 - 130     |     |           |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 110       |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

Lab Sample ID: 880-12419-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 21611

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 21614

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 1146       |               | mg/Kg |   | 115  | 70 - 130     | 3   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 1193       |               | mg/Kg |   | 115  | 70 - 130     | 6   | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 117       |           | 70 - 130 |
| o-Terphenyl    | 103       |           | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-238676/1-A

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|------|---|----------|----------------|---------|
| Chloride | <10.0        | U               | 10.0 | mg/L |   |          | 03/30/22 10:37 | 1       |

Lab Sample ID: LCS 410-238676/2-A

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|------|---|------|-----------------|
| Chloride | 20.0           | 21.32         |                  | mg/L |   | 107  | 90 - 110        |

Lab Sample ID: 890-2070-A-2-H MS

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| Chloride | 277              |                     | 19.8           | 282.8        | 4               | mg/L |   | 27   | 90 - 110        |

Lab Sample ID: 890-2070-A-2-G DU

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | DU<br>Result | DU<br>Qualifier | Unit | D | RPD | RPD<br>Limit |
|----------|------------------|---------------------|--------------|-----------------|------|---|-----|--------------|
| Chloride | 277              |                     | 291.9        |                 | mg/L |   | 5   | 15           |

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Prep Batch: 21736

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2069-1         | SS08                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2066-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2066-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21980

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2069-1         | SS08                   | Total/NA  | Solid  | 8021B  | 21736      |
| MB 880-21736/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21736      |
| LCS 880-21736/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21736      |
| LCSD 880-21736/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-A-1-H MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 21736      |
| 890-2066-A-1-I MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 21736      |

## Analysis Batch: 22090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2069-1    | SS08             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 21611

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2069-1          | SS08                   | Total/NA  | Solid  | 8015B NM | 21614      |
| MB 880-21614/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 21614      |
| LCS 880-21614/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21614      |
| LCSD 880-21614/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21614      |
| 880-12419-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21614      |
| 880-12419-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21614      |

## Prep Batch: 21614

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2069-1          | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21614/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21614/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21614/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12419-A-1-B MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12419-A-1-C MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21695

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2069-1    | SS08             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 238676

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 890-2069-1         | SS08               | Soluble   | Solid  | DI Leach |            |
| MB 410-238676/1-A  | Method Blank       | Soluble   | Solid  | DI Leach |            |
| LCS 410-238676/2-A | Lab Control Sample | Soluble   | Solid  | DI Leach |            |
| 890-2070-A-2-H MS  | Matrix Spike       | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

## HPLC/IC (Continued)

## Leach Batch: 238676 (Continued)

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------|-----------|--------|----------|------------|
| 890-2070-A-2-G DU | Duplicate        | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 239332

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 890-2069-1         | SS08               | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| MB 410-238676/1-A  | Method Blank       | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| LCS 410-238676/2-A | Lab Control Sample | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-H MS  | Matrix Spike       | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-G DU  | Duplicate          | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: SS08

Lab Sample ID: 890-2069-1

Date Collected: 03/09/22 12:34

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21736        | 03/18/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21980        | 03/21/22 12:53       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22090        | 03/21/22 15:27       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21695        | 03/16/22 08:54       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21614        | 03/15/22 08:41       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21611        | 03/15/22 18:12       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 5               | 239332       | 03/30/22 18:10       | W5UX    | ELLE    |

## Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

## Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 1.01                  | 11-30-22        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-22        |
| Alaska                            | State                 | PA00009               | 06-30-22        |
| Alaska (UST)                      | State                 | 17-027                | 02-28-23        |
| Arizona                           | State                 | AZ0780                | 03-12-23        |
| Arkansas DEQ                      | State                 | 88-0660               | 08-10-22        |
| California                        | State                 | 2792                  | 02-02-22 *      |
| Colorado                          | State                 | PA00009               | 06-30-22        |
| Connecticut                       | State                 | PH-0746               | 06-30-23        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-23        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-23        |
| Florida                           | NELAP                 | E87997                | 06-30-22        |
| Georgia (DW)                      | State                 | C048                  | 01-31-22 *      |
| Hawaii                            | State                 | N/A                   | 01-31-23        |
| Illinois                          | NELAP                 | 200027                | 01-31-23        |
| Iowa                              | State                 | 361                   | 03-02-22 *      |
| Kansas                            | NELAP                 | E-10151               | 10-31-22        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-22        |
| Kentucky (UST)                    | State                 | 1.01                  | 11-30-22        |
| Kentucky (WW)                     | State                 | KY90088               | 01-01-23        |
| Louisiana                         | NELAP                 | 02055                 | 06-30-22        |
| Maine                             | State                 | 2019012               | 03-12-23        |
| Maryland                          | State                 | 100                   | 06-30-22        |
| Massachusetts                     | State                 | M-PA009               | 06-30-22        |
| Michigan                          | State                 | 9930                  | 01-31-23        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-22        |
| Missouri                          | State                 | 450                   | 01-31-25        |
| Montana (DW)                      | State                 | 0098                  | 01-01-23        |
| Montana (UST)                     | State                 | <cert No.>            | 02-01-23        |
| Nebraska                          | State                 | NE-OS-32-17           | 01-31-23        |
| New Hampshire                     | NELAP                 | 2730                  | 01-10-23        |
| New Jersey                        | NELAP                 | PA011                 | 06-30-22        |
| New York                          | NELAP                 | 10670                 | 04-01-22        |
| North Carolina (DW)               | State                 | 42705                 | 07-31-22        |
| North Carolina (WW/SW)            | State                 | 521                   | 12-31-22        |
| North Dakota                      | State                 | R-205                 | 01-31-23        |
| Oklahoma                          | NELAP                 | R-205                 | 08-31-22        |
| Oregon                            | NELAP                 | PA200001              | 09-11-22        |
| PALA                              | Canada                | 1978                  | 09-16-24        |
| Pennsylvania                      | NELAP                 | 36-00037              | 01-31-23        |
| Rhode Island                      | State                 | LAO00338              | 12-30-22        |
| South Carolina                    | State                 | 89002                 | 01-31-23        |
| Tennessee                         | State                 | 02838                 | 01-31-22 *      |
| Texas                             | NELAP                 | T104704194-21-40      | 08-31-22        |
| Vermont                           | State                 | VT - 36037            | 10-28-22        |
| Virginia                          | NELAP                 | 460182                | 06-14-22        |
| Washington                        | State                 | C457                  | 04-12-22        |
| West Virginia (DW)                | State                 | 9906 C                | 12-31-22        |
| West Virginia DEP                 | State                 | 055                   | 04-30-22        |
| Wyoming                           | State                 | 8TMS-L                | 01-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority     | Program | Identification Number | Expiration Date |
|---------------|---------|-----------------------|-----------------|
| Wyoming (UST) | A2LA    | 1.01                  | 11-30-22        |

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   | T104704400-21-22      | 06-30-22        |

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

| Method         | Method Description                 | Protocol | Laboratory |
|----------------|------------------------------------|----------|------------|
| 8021B          | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX     | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM        | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM       | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| EPA 300.0 R2.1 | Anions, Ion Chromatography         | EPA      | ELLE       |
| 5035           | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep    | Microextraction                    | SW846    | XEN MID    |
| DI Leach       | Deionized Water Leaching Procedure | ASTM     | ELLE       |

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2069-1  
SDG: 31403236.022.0129 TASK 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2069-1    | SS08             | Solid  | 03/09/22 12:34 | 03/11/22 11:17 | 1     |

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



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  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3333  
Hobbs, NM (575-392-7550)

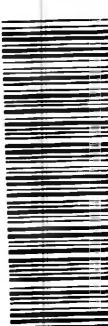
## Chain of Custody

**Work Order No:**

Page \_\_\_\_ of \_\_\_\_

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Katei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Katei.Jennings@wsp.com |

| Work Order Comments |  |                                    |                                     |                             |                                     |                          |  |  |  |
|---------------------|--|------------------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|--|--|--|
| Program: UST/PT     |  | <input type="checkbox"/> RP        | <input type="checkbox"/> Growfields | <input type="checkbox"/> RC | <input type="checkbox"/> \$operfund | <input type="checkbox"/> |  |  |  |
| State of Project:   |  |                                    |                                     |                             |                                     |                          |  |  |  |
| Reporting: Level II |  | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST      | <input type="checkbox"/> RP | <input type="checkbox"/> Level IV   | <input type="checkbox"/> |  |  |  |
| Deliverables: EDD   |  | <input type="checkbox"/>           | AdAPT                               | <input type="checkbox"/>    | Other:                              |                          |  |  |  |

| Project Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PLU BS 101H                                                             | Turn Around                                 | ANALYSIS REQUEST            | Work Order Notes |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|-----------------------------|------------------|-----------------------------------------|-----------------------------|-----------------------------------------|-----------------------------|----------|-----------------------------------------|-----------------------------|-------------------|---------|----------------|--|--|--|--|------------------|---------------------------------------------------------------------|---------|--|--|--|--|-----------------------|-------------------------------------------------------------------------|-------------------------|--|--|--|--|-----------------------|-------------------------------------------------------------------------|-------------------|--|--|
| Project Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31403236.022.0129 Task 10.02                                            | Routine <input checked="" type="checkbox"/> |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| P.O. Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         | Rush:                                       |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Sampler's Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Mercy Rotich.                                                           | Due Date:                                   |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| <table border="1"> <tr> <th>SAMPLE RECEIPT</th> <th>Temp Blank:</th> <th><input checked="" type="checkbox"/> Yes</th> <th><input type="checkbox"/> No</th> <th>Wet Ice:</th> <th><input checked="" type="checkbox"/> Yes</th> <th><input type="checkbox"/> No</th> </tr> <tr> <td>Temperature (°C):</td> <td>5.4/5.4</td> <td colspan="5">Thermometer ID</td> </tr> <tr> <td>Received Intact:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="5">TWM-003</td> </tr> <tr> <td>Cooler Custody Seals:</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</td> <td colspan="5">Correction Factor: -0.2</td> </tr> <tr> <td>Sample Custody Seals:</td> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</td> <td colspan="5">Total Containers:</td> </tr> </table> |                                                                         |                                             |                             |                  | SAMPLE RECEIPT                          | Temp Blank:                 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Wet Ice: | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Temperature (°C): | 5.4/5.4 | Thermometer ID |  |  |  |  | Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | TWM-003 |  |  |  |  | Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: -0.2 |  |  |  |  | Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Total Containers: |  |  |
| SAMPLE RECEIPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Temp Blank:                                                             | <input checked="" type="checkbox"/> Yes     | <input type="checkbox"/> No | Wet Ice:         | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Temperature (°C):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.4/5.4                                                                 | Thermometer ID                              |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Received Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     | TWM-003                                     |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Cooler Custody Seals:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: -0.2                     |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Sample Custody Seals:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Total Containers:                           |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| Number of Containers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| EPA 8015)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| EPA 0=8021)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| EPA 300.0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| <div style="text-align: center;">  <p>890-2069 Chain of Custody</p> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| API: 30-015-46940<br>AFE:DD:2017.01965.CAP.<br>CAP.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |
| TAT starts the day received by the lab, if received by 4:30pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |                                             |                             |                  |                                         |                             |                                         |                             |          |                                         |                             |                   |         |                |  |  |  |  |                  |                                                                     |         |  |  |  |  |                       |                                                                         |                         |  |  |  |  |                       |                                                                         |                   |  |  |

[illegible]

| Circle Method(s) and Metal(s) to be analyzed | 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            | II   |
|                                              | Sn                 | U             | V    |
|                                              | Zn                 |               |      |
| 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>Wagner</i>                | <i>Clare Guffy</i>       | 31122 11-7 |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |
|                              |                          |            |                              |                          |           |

Revised Data Collection 2018

## Eurofins Midland

1211 W. Florida Ave  
Midland, TX 79701  
Phone: 432-704-5440

## Chain of Custody Record



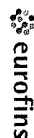
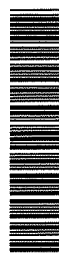
## Environment Testing America

[illegible]

## Eurofins Carlsbad

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

## Chain of Custody Record



## Environment Testing America

[illegible]



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2069-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2069

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    |         |



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2069-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2069

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 3

List Creation: 03/25/22 01:47 PM

Creator: Bryan, Debra A

| Question                                                                          | Answer | Comment                            |
|-----------------------------------------------------------------------------------|--------|------------------------------------|
| The cooler's custody seal is 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 ( $\leq 6^{\circ}\text{C}$ , not frozen).        | True   |                                    |
| Cooler Temperature is recorded.                                                   | True   |                                    |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                    |
| WV: Container Temperature is recorded.                                            | N/A    |                                    |
| COC is present.                                                                   | True   |                                    |
| COC is filled out in ink and legible.                                             | True   |                                    |
| COC is filled out with all pertinent information.                                 | True   |                                    |
| There are no discrepancies between the containers received and the COC.           | 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   |                                    |
| There is sufficient vol. for all requested analyses.                              | True   |                                    |
| Is the Field Sampler's name present on COC?                                       | False  | Received project as a subcontract. |
| Sample custody seals are intact.                                                  | N/A    |                                    |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2069-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2069

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/14/22 08:17 AM

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



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2055-1

Laboratory SDG: 31403236.022.0129 TASK 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
3/21/2022 11:42:32 AM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

Case Narrative

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Job ID: 890-2055-1

Laboratory: Eurofins Carlsbad

| Narrative | Job Narrative<br>890-2055-1 |
|-----------|-----------------------------|
|-----------|-----------------------------|

Receipt

The samples were received on 3/8/2022 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21215 and analytical batch 880-21615 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

GC Semi VOA

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

HPLC/IC

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

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: PH01

Lab Sample ID: 890-2055-1

Date Collected: 03/07/22 10:30

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 1

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

| Analyte               | Result        | Qualifier    | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|---------------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene               | <0.00199      | U F2 F1      | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| Toluene               | <0.00199      | U F2 F1      | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| Ethylbenzene          | <0.00199      | U F2 F1      | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| m-Xylene & p-Xylene   | <0.00398      | U F2 F1      | 0.00398 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| <b>o-Xylene</b>       | <b>0.0123</b> | <b>F2 F1</b> | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| <b>Xylenes, Total</b> | <b>0.0123</b> | <b>F2 F1</b> | 0.00398 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 12:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 142       | S1+       | 70 - 130 | 03/14/22 16:00 | 03/15/22 12:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 12:28 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte           | Result        | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-------------------|---------------|-----------|---------|-------|---|----------|----------------|---------|
| <b>Total BTEX</b> | <b>0.0123</b> |           | 0.00398 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte          | Result       | Qualifier | RL  | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------|--------------|-----------|-----|-------|---|----------|----------------|---------|
| <b>Total TPH</b> | <b>11200</b> |           | 249 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <249      | U         | 249      | mg/Kg |   | 03/11/22 08:28 | 03/16/22 07:01 | 5       |
| Diesel Range Organics (Over C10-C28) | 11200     |           | 249      | mg/Kg |   | 03/11/22 08:28 | 03/16/22 07:01 | 5       |
| Oil Range Organics (Over C28-C36)    | <249      | U         | 249      | mg/Kg |   | 03/11/22 08:28 | 03/16/22 07:01 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 147       | S1+       | 70 - 130 |       |   | 03/11/22 08:28 | 03/16/22 07:01 | 5       |
| o-Terphenyl                          | 106       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/16/22 07:01 | 5       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte         | Result     | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------------|------------|-----------|------|-------|---|----------|----------------|---------|
| <b>Chloride</b> | <b>885</b> |           | 4.97 | mg/Kg |   |          | 03/20/22 22:05 | 1       |

Client Sample ID: PH01A

Lab Sample ID: 890-2055-2

Date Collected: 03/07/22 10:38

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte               | Result             | Qualifier | RL             | Unit         | D | Prepared              | Analyzed              | Dil Fac  |
|-----------------------|--------------------|-----------|----------------|--------------|---|-----------------------|-----------------------|----------|
| Benzene               | <0.00199           | U         | 0.00199        | mg/Kg        |   | 03/14/22 16:00        | 03/15/22 12:48        | 1        |
| Toluene               | <0.00199           | U         | 0.00199        | mg/Kg        |   | 03/14/22 16:00        | 03/15/22 12:48        | 1        |
| Ethylbenzene          | <0.00199           | U         | 0.00199        | mg/Kg        |   | 03/14/22 16:00        | 03/15/22 12:48        | 1        |
| m-Xylene & p-Xylene   | <0.00398           | U         | 0.00398        | mg/Kg        |   | 03/14/22 16:00        | 03/15/22 12:48        | 1        |
| o-Xylene              | <0.00199           | U         | 0.00199        | mg/Kg        |   | 03/14/22 16:00        | 03/15/22 12:48        | 1        |
| <b>Xylenes, Total</b> | <b>&lt;0.00398</b> | <b>U</b>  | <b>0.00398</b> | <b>mg/Kg</b> |   | <b>03/14/22 16:00</b> | <b>03/15/22 12:48</b> | <b>1</b> |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 12:48 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: PH01A

Lab Sample ID: 890-2055-2

Date Collected: 03/07/22 10:38

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 12:48 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 3690   |           | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 66.2   |           | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:02 | 1       |
| Diesel Range Organics (Over C10-C28) | 3570   |           | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:02 | 1       |
| Oil Range Organics (Over C28-C36)    | 57.3   |           | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:02 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 115       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 14:02 | 1       |
| o-Terphenyl    | 106       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 14:02 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 361    |           | 4.98 | mg/Kg |   |          | 03/20/22 22:14 | 1       |

Client Sample ID: PH01B

Lab Sample ID: 890-2055-3

Date Collected: 03/07/22 12:20

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| o-Xylene            | 0.0110   |           | 0.00202 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| Xylenes, Total      | 0.0110   |           | 0.00403 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 131       | S1+       | 70 - 130 | 03/14/22 16:00 | 03/15/22 13:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 13:09 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|--------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.0110 |           | 0.00403 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: PH01B

Lab Sample ID: 890-2055-3

Date Collected: 03/07/22 12:20

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 3

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 297    |           | 49.9 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:24 | 1       |
| Diesel Range Organics (Over C10-C28) | 297       |           | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 91        |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 14:24 | 1       |
| o-Terphenyl                          | 87        |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 14:24 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 22.5   |           | 5.01 | mg/Kg |   |          | 03/20/22 22:23 | 1       |

Client Sample ID: PH02

Lab Sample ID: 890-2055-4

Date Collected: 03/07/22 11:10

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| o-Xylene                    | 0.00569   |           | 0.00199  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| Xylenes, Total              | 0.00569   |           | 0.00398  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 128       |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 13:29 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result  | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|---------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.00569 |           | 0.00398 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 14:45 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: PH02

## Lab Sample ID: 890-2055-4

Date Collected: 03/07/22 11:10

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 1

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 14:45 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 14:45 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 535    |           | 4.98 | mg/Kg |   |          | 03/20/22 22:31 | 1       |

## Client Sample ID: PH02A

## Lab Sample ID: 890-2055-5

Date Collected: 03/07/22 11:20

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 13:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 13:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 13:49 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 178    |           | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:28 | 1       |
| Diesel Range Organics (Over C10-C28) | 178    |           | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:28 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99        |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 15:28 | 1       |
| o-Terphenyl    | 97        |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 15:28 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 246    |           | 5.00 | mg/Kg |   |          | 03/20/22 22:58 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS01

Lab Sample ID: 890-2055-6

Date Collected: 03/07/22 14:20

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:10 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:10 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:50 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:50 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 15:50 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 108       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 15:50 | 1       |
| o-Terphenyl    | 109       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 15:50 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 236    |           | 5.01 | mg/Kg |   |          | 03/20/22 23:07 | 1       |

Client Sample ID: FS02

Lab Sample ID: 890-2055-7

Date Collected: 03/07/22 14:24

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:30 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS02

Lab Sample ID: 890-2055-7

Date Collected: 03/07/22 14:24

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 101       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:30 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 130    |           | 49.9 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:11 | 1       |
| Diesel Range Organics (Over C10-C28) | 130       |           | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:11 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:11 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:11 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 89.2   |           | 4.98 | mg/Kg |   |          | 03/20/22 23:16 | 1       |

Client Sample ID: FS03

Lab Sample ID: 890-2055-8

Date Collected: 03/07/22 14:30

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 14:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 14:51 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS03

## Lab Sample ID: 890-2055-8

Date Collected: 03/07/22 14:30

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:33 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:33 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:33 | 1       |
| o-Terphenyl                          | 108       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:33 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 56.0   |           | 4.98 | mg/Kg |   |          | 03/20/22 23:24 | 1       |

## Client Sample ID: FS04

## Lab Sample ID: 890-2055-9

Date Collected: 03/07/22 14:40

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 17:21 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 99.3   |           | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:54 | 1       |
| Diesel Range Organics (Over C10-C28) | 99.3      |           | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 16:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 110       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:54 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 16:54 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS04

## Lab Sample ID: 890-2055-9

Date Collected: 03/07/22 14:40

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 15.0   |           | 5.01 | mg/Kg |   |          | 03/20/22 23:33 | 1       |

## Client Sample ID: FS05

## Lab Sample ID: 890-2055-10

Date Collected: 03/07/22 15:20

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 |       |   | 03/14/22 16:00 | 03/15/22 17:42 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 133    |           | 49.9 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:14 | 1       |
| Diesel Range Organics (Over C10-C28) | 133       |           | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:14 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 120       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 17:14 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |       |   | 03/11/22 08:28 | 03/11/22 17:14 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 36.2   |           | 4.97 | mg/Kg |   |          | 03/20/22 23:42 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS06

Lab Sample ID: 890-2055-11

Date Collected: 03/07/22 15:26

Matrix: Solid

Date Received: 03/08/22 14:10

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 18:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 18:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/14/22 16:00 | 03/15/22 18:02 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 03/15/22 16:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/14/22 08:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:36 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:36 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 17:36 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 17:36 | 1       |
| o-Terphenyl    | 106       |           | 70 - 130 | 03/11/22 08:28 | 03/11/22 17:36 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 33.3   |           | 4.99 | mg/Kg |   |          | 03/21/22 00:09 | 1       |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2055-1                        | PH01                   | 142 S1+                                        | 92                |
| 890-2055-1 MS                     | PH01                   | 144 S1+                                        | 93                |
| 890-2055-1 MSD                    | PH01                   | 121                                            | 93                |
| 890-2055-2                        | PH01A                  | 113                                            | 93                |
| 890-2055-3                        | PH01B                  | 131 S1+                                        | 97                |
| 890-2055-4                        | PH02                   | 128                                            | 99                |
| 890-2055-5                        | PH02A                  | 114                                            | 108               |
| 890-2055-6                        | FS01                   | 109                                            | 105               |
| 890-2055-7                        | FS02                   | 107                                            | 101               |
| 890-2055-8                        | FS03                   | 111                                            | 98                |
| 890-2055-9                        | FS04                   | 108                                            | 103               |
| 890-2055-10                       | FS05                   | 104                                            | 102               |
| 890-2055-11                       | FS06                   | 106                                            | 104               |
| LCS 880-21215/1-A                 | Lab Control Sample     | 96                                             | 95                |
| LCSD 880-21215/2-A                | Lab Control Sample Dup | 95                                             | 103               |
| MB 880-21215/5-B                  | Method Blank           | 97                                             | 102               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-12301-A-1-A MS      | Matrix Spike           | 83                                             | 66 S1-            |
| 880-12301-A-1-A MSD     | Matrix Spike Duplicate | 81                                             | 65 S1-            |
| 890-2055-1              | PH01                   | 147 S1+                                        | 106               |
| 890-2055-2              | PH01A                  | 115                                            | 106               |
| 890-2055-3              | PH01B                  | 91                                             | 87                |
| 890-2055-4              | PH02                   | 101                                            | 103               |
| 890-2055-5              | PH02A                  | 99                                             | 97                |
| 890-2055-6              | FS01                   | 108                                            | 109               |
| 890-2055-7              | FS02                   | 108                                            | 105               |
| 890-2055-8              | FS03                   | 108                                            | 108               |
| 890-2055-9              | FS04                   | 110                                            | 107               |
| 890-2055-10             | FS05                   | 120                                            | 120               |
| 890-2055-11             | FS06                   | 106                                            | 106               |
| LCS 880-21362/2-A       | Lab Control Sample     | 97                                             | 90                |
| LCSD 880-21362/3-A      | Lab Control Sample Dup | 102                                            | 95                |
| MB 880-21362/1-A        | Method Blank           | 111                                            | 113               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21215/5-B

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 03/14/22 16:00 | 03/15/22 11:59 | 1       |

Lab Sample ID: LCS 880-21215/1-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1087     |               | mg/Kg |   | 109  | 70 - 130     |
| Toluene             | 0.100       | 0.1042     |               | mg/Kg |   | 104  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1029     |               | mg/Kg |   | 103  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2416     |               | mg/Kg |   | 121  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1165     |               | mg/Kg |   | 116  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 96            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-21215/2-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.1091      |                | mg/Kg |   | 109  | 70 - 130     | 0   | 35    |
| Toluene             | 0.100       | 0.1004      |                | mg/Kg |   | 100  | 70 - 130     | 4   | 35    |
| Ethylbenzene        | 0.100       | 0.09825     |                | mg/Kg |   | 98   | 70 - 130     | 5   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2297      |                | mg/Kg |   | 115  | 70 - 130     | 5   | 35    |
| o-Xylene            | 0.100       | 0.1116      |                | mg/Kg |   | 112  | 70 - 130     | 4   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 95             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103            |                | 70 - 130 |

Lab Sample ID: 890-2055-1 MS

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 21215

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00199      | U F2 F1          | 0.101       | 0.05294   | F1           | mg/Kg |   | 53   | 70 - 130     |
| Toluene | <0.00199      | U F2 F1          | 0.101       | 0.03908   | F1           | mg/Kg |   | 38   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: 890-2055-1 MS

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.101       | 0.02601   | F1           | mg/Kg |   | 24   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.202       | 0.04236   | F1           | mg/Kg |   | 20   | 70 - 130     |
| o-Xylene            | 0.0123        | F2 F1            | 0.101       | 0.03425   | F1           | mg/Kg |   | 22   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 144          | S1+          | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93           |              | 70 - 130 |

Lab Sample ID: 890-2055-1 MSD

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.100       | 0.07937    | F2            | mg/Kg |   | 79   | 70 - 130     | 40  | 35        |
| Toluene             | <0.00199      | U F2 F1          | 0.100       | 0.08386    | F2            | mg/Kg |   | 83   | 70 - 130     | 73  | 35        |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.100       | 0.07686    | F2            | mg/Kg |   | 75   | 70 - 130     | 99  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.200       | 0.1540     | F2            | mg/Kg |   | 76   | 70 - 130     | 114 | 35        |
| o-Xylene            | 0.0123        | F2 F1            | 0.100       | 0.1052     | F2            | mg/Kg |   | 93   | 70 - 130     | 102 | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 121           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

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

Lab Sample ID: MB 880-21362/1-A

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21362

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 09:39 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 09:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/11/22 08:28 | 03/11/22 09:39 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111          |              | 70 - 130 | 03/11/22 08:28 | 03/11/22 09:39 | 1       |
| o-Terphenyl    | 113          |              | 70 - 130 | 03/11/22 08:28 | 03/11/22 09:39 | 1       |

Lab Sample ID: LCS 880-21362/2-A

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21362

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 891.1      |               | mg/Kg |   | 89   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 929.2      |               | mg/Kg |   | 93   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCS 880-21362/2-A

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21362

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 97        |           | 70 - 130 |
| o-Terphenyl    | 90        |           | 70 - 130 |

Lab Sample ID: LCSD 880-21362/3-A

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21362

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 833.5       |                | mg/Kg |   | 83   | 70 - 130     | 7   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 926.9       |                | mg/Kg |   | 93   | 70 - 130     | 0   | 20        |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 102       |           | 70 - 130 |
| o-Terphenyl    | 95        |           | 70 - 130 |

Lab Sample ID: 880-12301-A-1-A MS

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21362

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 83        |           | 70 - 130 |
| o-Terphenyl    | 66        | S1-       | 70 - 130 |

Lab Sample ID: 880-12301-A-1-A MSD

Matrix: Solid

Analysis Batch: 21357

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21362

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 81        |           | 70 - 130 |
| o-Terphenyl    | 65        | S1-       | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21404/1-A

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 03/20/22 21:12 | 1       |

Lab Sample ID: LCS 880-21404/2-A

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: Lab Control Sample

Prep Type: Soluble

|          | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 252.6      |               | mg/Kg |   | 101  | 90 - 110     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-21404/3-A

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  |  |  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|--|--|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride |  |  | 250            | 254.6          |                   | mg/Kg |   | 102  | 90 - 110        | 1   | 20           |

Lab Sample ID: 890-2055-10 MS

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: FS05

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|--|--|
| Chloride | 36.2             |                     | 249            | 297.4        |                 | mg/Kg |   | 105  | 90 - 110        |  |  |

Lab Sample ID: 890-2055-10 MSD

Matrix: Solid

Analysis Batch: 21967

Client Sample ID: FS05

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 36.2             |                     | 249            | 293.9         |                  | mg/Kg |   | 104  | 90 - 110        | 1   | 20           |

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Prep Batch: 21215

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2055-1         | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-2         | PH01A                  | Total/NA  | Solid  | 5035   |            |
| 890-2055-3         | PH01B                  | Total/NA  | Solid  | 5035   |            |
| 890-2055-4         | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-5         | PH02A                  | Total/NA  | Solid  | 5035   |            |
| 890-2055-6         | FS01                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-7         | FS02                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-8         | FS03                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-9         | FS04                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-10        | FS05                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-11        | FS06                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21215/5-B   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21215/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21215/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2055-1 MS      | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-2055-1 MSD     | PH01                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21615

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2055-1         | PH01                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-2         | PH01A                  | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-3         | PH01B                  | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-4         | PH02                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-5         | PH02A                  | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-6         | FS01                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-7         | FS02                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-8         | FS03                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-9         | FS04                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-10        | FS05                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-11        | FS06                   | Total/NA  | Solid  | 8021B  | 21215      |
| MB 880-21215/5-B   | Method Blank           | Total/NA  | Solid  | 8021B  | 21215      |
| LCS 880-21215/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21215      |
| LCSD 880-21215/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-1 MS      | PH01                   | Total/NA  | Solid  | 8021B  | 21215      |
| 890-2055-1 MSD     | PH01                   | Total/NA  | Solid  | 8021B  | 21215      |

## Analysis Batch: 21669

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2055-1    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-2    | PH01A            | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-3    | PH01B            | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-4    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-5    | PH02A            | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-6    | FS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-7    | FS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-8    | FS03             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-9    | FS04             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-10   | FS05             | Total/NA  | Solid  | Total BTEX |            |
| 890-2055-11   | FS06             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## GC Semi VOA

## Analysis Batch: 21357

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2055-2          | PH01A                  | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-3          | PH01B                  | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-4          | PH02                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-5          | PH02A                  | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-6          | FS01                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-7          | FS02                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-8          | FS03                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-9          | FS04                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-10         | FS05                   | Total/NA  | Solid  | 8015B NM | 21362      |
| 890-2055-11         | FS06                   | Total/NA  | Solid  | 8015B NM | 21362      |
| MB 880-21362/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 21362      |
| LCS 880-21362/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21362      |
| LCSD 880-21362/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21362      |
| 880-12301-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21362      |
| 880-12301-A-1-A MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21362      |

## Prep Batch: 21362

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2055-1          | PH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-2          | PH01A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-3          | PH01B                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-4          | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-5          | PH02A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-6          | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-7          | FS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-8          | FS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-9          | FS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-10         | FS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2055-11         | FS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21362/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21362/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21362/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12301-A-1-A MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-12301-A-1-A MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21469

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2055-1    | PH01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-2    | PH01A            | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-3    | PH01B            | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-4    | PH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-5    | PH02A            | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-6    | FS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-7    | FS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-8    | FS03             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-9    | FS04             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-10   | FS05             | Total/NA  | Solid  | 8015 NM |            |
| 890-2055-11   | FS06             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## GC Semi VOA

## Analysis Batch: 21611

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2055-1    | PH01             | Total/NA  | Solid  | 8015B NM | 21362      |

## HPLC/IC

## Leach Batch: 21404

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2055-1         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-2         | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-2055-3         | PH01B                  | Soluble   | Solid  | DI Leach |            |
| 890-2055-4         | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-5         | PH02A                  | Soluble   | Solid  | DI Leach |            |
| 890-2055-6         | FS01                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-7         | FS02                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-8         | FS03                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-9         | FS04                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-10        | FS05                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-11        | FS06                   | Soluble   | Solid  | DI Leach |            |
| MB 880-21404/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21404/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21404/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2055-10 MS     | FS05                   | Soluble   | Solid  | DI Leach |            |
| 890-2055-10 MSD    | FS05                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21967

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2055-1         | PH01                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-2         | PH01A                  | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-3         | PH01B                  | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-4         | PH02                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-5         | PH02A                  | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-6         | FS01                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-7         | FS02                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-8         | FS03                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-9         | FS04                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-10        | FS05                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-11        | FS06                   | Soluble   | Solid  | 300.0  | 21404      |
| MB 880-21404/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21404      |
| LCS 880-21404/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21404      |
| LCSD 880-21404/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-10 MS     | FS05                   | Soluble   | Solid  | 300.0  | 21404      |
| 890-2055-10 MSD    | FS05                   | Soluble   | Solid  | 300.0  | 21404      |

Eurofins Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: PH01

Lab Sample ID: 890-2055-1

Date Collected: 03/07/22 10:30

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 12:28       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 21611        | 03/16/22 07:01       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 22:05       | CH      | XEN MID |

Client Sample ID: PH01A

Lab Sample ID: 890-2055-2

Date Collected: 03/07/22 10:38

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 12:48       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 14:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 22:14       | CH      | XEN MID |

Client Sample ID: PH01B

Lab Sample ID: 890-2055-3

Date Collected: 03/07/22 12:20

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 13:09       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 14:24       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 22:23       | CH      | XEN MID |

Client Sample ID: PH02

Lab Sample ID: 890-2055-4

Date Collected: 03/07/22 11:10

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 13:29       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: PH02

## Lab Sample ID: 890-2055-4

Date Collected: 03/07/22 11:10

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 14:45       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 22:31       | CH      | XEN MID |

## Client Sample ID: PH02A

## Lab Sample ID: 890-2055-5

Date Collected: 03/07/22 11:20

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 13:49       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 15:28       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 22:58       | CH      | XEN MID |

## Client Sample ID: FS01

## Lab Sample ID: 890-2055-6

Date Collected: 03/07/22 14:20

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 14:10       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 15:50       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 23:07       | CH      | XEN MID |

## Client Sample ID: FS02

## Lab Sample ID: 890-2055-7

Date Collected: 03/07/22 14:24

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 14:30       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 16:11       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS02

## Lab Sample ID: 890-2055-7

Date Collected: 03/07/22 14:24

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 23:16       | CH      | XEN MID |

## Client Sample ID: FS03

## Lab Sample ID: 890-2055-8

Date Collected: 03/07/22 14:30

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 14:51       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 16:33       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 23:24       | CH      | XEN MID |

## Client Sample ID: FS04

## Lab Sample ID: 890-2055-9

Date Collected: 03/07/22 14:40

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 17:21       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 16:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 23:33       | CH      | XEN MID |

## Client Sample ID: FS05

## Lab Sample ID: 890-2055-10

Date Collected: 03/07/22 15:20

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 17:42       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 17:14       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/20/22 23:42       | CH      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS06

Lab Sample ID: 890-2055-11

Date Collected: 03/07/22 15:26

Matrix: Solid

Date Received: 03/08/22 14:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21215        | 03/14/22 16:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/15/22 18:02       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21669        | 03/15/22 16:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21469        | 03/14/22 08:40       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21362        | 03/11/22 08:28       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21357        | 03/11/22 17:36       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21404        | 03/11/22 14:28       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21967        | 03/21/22 00:09       | CH      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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   | T104704400-21-22      | 06-30-22        |

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



## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

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

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

## Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2055-1  
SDG: 31403236.022.0129 TASK 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2055-1    | PH01             | Solid  | 03/07/22 10:30 | 03/08/22 14:10 | 1     |
| 890-2055-2    | PH01A            | Solid  | 03/07/22 10:38 | 03/08/22 14:10 | 2     |
| 890-2055-3    | PH01B            | Solid  | 03/07/22 12:20 | 03/08/22 14:10 | 3     |
| 890-2055-4    | PH02             | Solid  | 03/07/22 11:10 | 03/08/22 14:10 | 1     |
| 890-2055-5    | PH02A            | Solid  | 03/07/22 11:20 | 03/08/22 14:10 | 2     |
| 890-2055-6    | FS01             | Solid  | 03/07/22 14:20 | 03/08/22 14:10 | 2     |
| 890-2055-7    | FS02             | Solid  | 03/07/22 14:24 | 03/08/22 14:10 | 2     |
| 890-2055-8    | FS03             | Solid  | 03/07/22 14:30 | 03/08/22 14:10 | 2     |
| 890-2055-9    | FS04             | Solid  | 03/07/22 14:40 | 03/08/22 14:10 | 2     |
| 890-2055-10   | FS05             | Solid  | 03/07/22 15:20 | 03/08/22 14:10 | 2     |
| 890-2055-11   | FS06             | Solid  | 03/07/22 15:26 | 03/08/22 14:10 | 2     |



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 \_\_\_\_\_ of \_\_\_\_\_

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

|                 |                              |             |                                     |
|-----------------|------------------------------|-------------|-------------------------------------|
| Project Name:   | PLU BS 101H                  | Turn Around |                                     |
| Project Number: | 31403236.022.0129 Task 10.02 | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |                              | Rush:       |                                     |
| Sampler's Name: | Mercy Rotich                 | Due Date:   |                                     |

|                       |             |                |                    |          |      |    |
|-----------------------|-------------|----------------|--------------------|----------|------|----|
| <b>SAMPLE RECEIPT</b> | Temp Blank: | Yes            | No                 | Wet Ice: | Yes  | No |
| Temperature (°C):     | 5.8/5.6     | Thermometer ID |                    | 700-004  |      |    |
| Received In tact:     | Yes         | No             | Correction Factor: |          | -0.2 |    |
| Cooler Custody Seals: | Yes         | No             | Total Containers:  |          | 2    |    |
| Sample Custody Seals: | Yes         | No             |                    |          |      |    |



890-2055 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | ANALYSIS REQUEST | Work Order Notes                                              |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|------------------|---------------------------------------------------------------|
| PH01                  | S      | 03/07/22     | 10:30        | 1'    | 1                    | X              | X                 | X                    |                  | API: 30-015-46940<br>AFE: DD:2017.01965 CAP.<br>CAP.01        |
| PH01A                 | S      | 03/07/22     | 10:38        | 2'    | 1                    | X              | X                 | X                    |                  | TAT starts the day received by the lab. if received by 4:30pm |
| PH01B                 | S      | 03/07/22     | 12:20        | 3'    | 1                    | X              | X                 | X                    |                  |                                                               |
| PH02                  | S      | 03/07/22     | 11:10        | 1'    | 1                    | X              | X                 | X                    |                  |                                                               |
| PH02A                 | S      | 03/07/22     | 11:20        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |
| FS01                  | S      | 03/07/22     | 14:20        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |
| FS02                  | S      | 03/07/22     | 14:24        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |
| FS03                  | S      | 03/07/22     | 14:30        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |
| FS04                  | S      | 03/07/22     | 14:40        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |
| FS05                  | S      | 03/07/22     | 15:20        | 2'    | 1                    | X              | X                 | X                    |                  |                                                               |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag 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 \$3 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 |
| Muga                         | Joe Gof                  | 3.8.22 1410 |                              |                          |           |
|                              |                          |             |                              |                          |           |
|                              |                          |             |                              |                          |           |
|                              |                          |             |                              |                          |           |



## Chain of Custody

**Work Order No:**

Houston, TX (281) 240-4220 Dallas, TX (214) 902-0380 San Antonio, TX (210) 509-3334  
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-1111  
Hobbs, NM (575-392-7550)

Page 2 of 2

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432.704.5178         | Email:                  | Kalei.Jennings@wsp.com |

| Work Order Comments |  |                                    |                                      |                             |                                    |                          |  |  |  |
|---------------------|--|------------------------------------|--------------------------------------|-----------------------------|------------------------------------|--------------------------|--|--|--|
| Program: UST/PT     |  | <input type="checkbox"/> RP        | <input type="checkbox"/> Crownfields | <input type="checkbox"/> RC | <input type="checkbox"/> \$perfund | <input type="checkbox"/> |  |  |  |
| State of Project:   |  |                                    |                                      |                             |                                    |                          |  |  |  |
| Reporting Level II  |  | <input type="checkbox"/> Level III | <input type="checkbox"/> T/UST       | <input type="checkbox"/> RP | <input type="checkbox"/> Level IV  | <input type="checkbox"/> |  |  |  |
| Deliverables: EDD   |  | <input type="checkbox"/>           | ADaPT                                | <input type="checkbox"/>    | Other:                             |                          |  |  |  |

[illegible][illegible]

| Total             | 200.7 / 6010                                                                                                 | 200.8 / 6020:                   |
|-------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------|
| 8RCRA             | 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn |                                 |
| 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>W. J. J.</i>              | <i>C. J. J.</i>          | 3-8-20 14:10 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |

Revised Date 05/11/18 Rev. 2018





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2059-1

Laboratory SDG: 31403236.022.0129 task 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
3/22/2022 10:07:51 AM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto: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.*

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

| Qualifier | Qualifier Description                                            |
|-----------|------------------------------------------------------------------|
| ^2        | Calibration Blank (ICB and/or CCB) is outside acceptance limits. |
| U         | Indicates the analyte was analyzed for but not detected.         |

## Glossary

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



## Case Narrative

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

**Job ID: 890-2059-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2059-1****Receipt**

The samples were received on 3/9/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**GC VOA**

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

**GC Semi VOA**

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The continuing calibration blank (CCB) for analytical batch 880-21949 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300\_ORGFM\_28D: The following samples required confirmation (CON) due to the continuing calibration blank (CCB) for analytical batch 880-21949 contained Chloride above the reporting limit (RL): FS07 (890-2059-1), FS08 (890-2059-2), FS10 (890-2059-4) and FS12 (890-2059-6).

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS07

Lab Sample ID: 890-2059-1

Date Collected: 03/08/22 10:50

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:02 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:02 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 12:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 12:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 12:04 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94        |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 12:04 | 1       |
| o-Terphenyl    | 108       |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 12:04 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 62.2   |           | 4.98 | mg/Kg |   |          | 03/20/22 12:03 | 1       |

Client Sample ID: FS08

Lab Sample ID: 890-2059-2

Date Collected: 03/08/22 10:56

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |
| Ethylbenzene        | 0.00230  |           | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |
| m-Xylene & p-Xylene | 0.00627  |           | 0.00401 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |
| Xylenes, Total      | 0.00627  |           | 0.00401 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:23 | 1       |

Eurofins Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS08

Lab Sample ID: 890-2059-2

Date Collected: 03/08/22 10:56

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 95        |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:23 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result  | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|---------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | 0.00857 |           | 0.00401 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:07 | 1       |
| o-Terphenyl                          | 100       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:07 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 121    |           | 5.04 | mg/Kg |   |          | 03/20/22 12:13 | 1       |

Client Sample ID: FS09

Lab Sample ID: 890-2059-3

Date Collected: 03/08/22 11:06

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 00:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 00:43 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

Eurofins Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS09

## Lab Sample ID: 890-2059-3

Date Collected: 03/08/22 11:06

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:28 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:28 | 1       |
| o-Terphenyl                          | 110       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:28 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 248    | ^2        | 5.00 | mg/Kg |   |          | 03/19/22 13:58 | 1       |

## Client Sample ID: FS10

## Lab Sample ID: 890-2059-4

Date Collected: 03/08/22 11:10

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 01:04 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 13:49 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:49 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 13:49 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS10

## Lab Sample ID: 890-2059-4

Date Collected: 03/08/22 11:10

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 21.4   |           | 4.95 | mg/Kg |   |          | 03/20/22 12:24 | 1       |

## Client Sample ID: FS11

## Lab Sample ID: 890-2059-5

Date Collected: 03/08/22 13:02

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 01:24 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 89        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 14:10 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 14:10 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 245    | ^2        | 4.97 | mg/Kg |   |          | 03/19/22 14:19 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS12

Lab Sample ID: 890-2059-6

Date Collected: 03/08/22 13:08

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 01:45 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 01:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 01:45 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 14:31 | 1       |
| o-Terphenyl    | 104       |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 14:31 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 19.4   |           | 4.96 | mg/Kg |   |          | 03/20/22 12:35 | 1       |

Client Sample ID: FS13

Lab Sample ID: 890-2059-7

Date Collected: 03/08/22 13:12

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 02:06 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS13

Lab Sample ID: 890-2059-7

Date Collected: 03/08/22 13:12

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 97        |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 02:06 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 14:53 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 14:53 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 14:53 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 35.8   |           | 4.98 | mg/Kg |   |          | 03/21/22 20:05 | 1       |

Client Sample ID: FS14

Lab Sample ID: 890-2059-8

Date Collected: 03/08/22 14:00

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 02:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 02:26 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS14

## Lab Sample ID: 890-2059-8

Date Collected: 03/08/22 14:00

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:14 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:14 | 1       |
| o-Terphenyl                          | 101       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:14 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 114    |           | 4.97 | mg/Kg |   |          | 03/21/22 20:14 | 1       |

## Client Sample ID: FS15

## Lab Sample ID: 890-2059-9

Date Collected: 03/08/22 14:04

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 02:47 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:35 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:35 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS15

## Lab Sample ID: 890-2059-9

Date Collected: 03/08/22 14:04

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1910   |           | 25.0 | mg/Kg |   |          | 03/21/22 20:41 | 5       |

## Client Sample ID: FS16

## Lab Sample ID: 890-2059-10

Date Collected: 03/08/22 14:08

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 03:07 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 15:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:56 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 15:56 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3500   |           | 24.9 | mg/Kg |   |          | 03/21/22 20:50 | 5       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS17

Lab Sample ID: 890-2059-11

Date Collected: 03/08/22 14:20

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 04:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 04:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 04:58 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 17:41 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 17:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 17:41 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 89        |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 17:41 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 03/14/22 08:47 | 03/14/22 17:41 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 896    |           | 5.05 | mg/Kg |   |          | 03/21/22 20:59 | 1       |

Client Sample ID: FS18

Lab Sample ID: 890-2059-12

Date Collected: 03/08/22 14:48

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 05:18 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS18

Lab Sample ID: 890-2059-12

Date Collected: 03/08/22 14:48

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 103       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 05:18 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 93        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:02 | 1       |
| o-Terphenyl                          | 106       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:02 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 423    |           | 4.97 | mg/Kg |   |          | 03/21/22 21:08 | 1       |

Client Sample ID: FS19

Lab Sample ID: 890-2059-13

Date Collected: 03/08/22 15:20

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 05:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 03/11/22 11:16 | 03/16/22 05:38 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS19

## Lab Sample ID: 890-2059-13

Date Collected: 03/08/22 15:20

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:23 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:23 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:23 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:23 | 1       |
| o-Terphenyl                          | 109       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:23 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 857    |           | 4.98 | mg/Kg |   |          | 03/21/22 21:17 | 1       |

## Client Sample ID: FS20

## Lab Sample ID: 890-2059-14

Date Collected: 03/08/22 15:24

Matrix: Solid

Date Received: 03/09/22 13:05

Sample Depth: 2

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |       |   | 03/11/22 11:16 | 03/16/22 05:59 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 03/16/22 12:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:44 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:44 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 18:44 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:44 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 18:44 | 1       |

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Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS20  
Date Collected: 03/08/22 15:24  
Date Received: 03/09/22 13:05  
Sample Depth: 2

Lab Sample ID: 890-2059-14  
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|------------------------------------------------------|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte                                              | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride                                             | 795    |           | 4.96 | mg/Kg |   |          | 03/21/22 21:25 | 1       |  |

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|-----------------------------------|------------------------|------------------------------------------------|----------|--|--|--|--|
| Lab Sample ID                     | Client Sample ID       | BFB1                                           | DFBZ1    |  |  |  |  |
|                                   |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 890-2059-1                        | FS07                   | 105                                            | 95       |  |  |  |  |
| 890-2059-1 MS                     | FS07                   | 101                                            | 100      |  |  |  |  |
| 890-2059-1 MSD                    | FS07                   | 98                                             | 103      |  |  |  |  |
| 890-2059-2                        | FS08                   | 98                                             | 95       |  |  |  |  |
| 890-2059-3                        | FS09                   | 112                                            | 106      |  |  |  |  |
| 890-2059-4                        | FS10                   | 113                                            | 101      |  |  |  |  |
| 890-2059-5                        | FS11                   | 95                                             | 92       |  |  |  |  |
| 890-2059-6                        | FS12                   | 117                                            | 106      |  |  |  |  |
| 890-2059-7                        | FS13                   | 109                                            | 97       |  |  |  |  |
| 890-2059-8                        | FS14                   | 101                                            | 104      |  |  |  |  |
| 890-2059-9                        | FS15                   | 104                                            | 105      |  |  |  |  |
| 890-2059-10                       | FS16                   | 110                                            | 100      |  |  |  |  |
| 890-2059-11                       | FS17                   | 111                                            | 98       |  |  |  |  |
| 890-2059-12                       | FS18                   | 114                                            | 103      |  |  |  |  |
| 890-2059-13                       | FS19                   | 108                                            | 103      |  |  |  |  |
| 890-2059-14                       | FS20                   | 112                                            | 97       |  |  |  |  |
| LCS 880-21290/1-A                 | Lab Control Sample     | 95                                             | 99       |  |  |  |  |
| LCSD 880-21290/2-A                | Lab Control Sample Dup | 99                                             | 98       |  |  |  |  |
| MB 880-21215/5-B                  | Method Blank           | 97                                             | 102      |  |  |  |  |
| MB 880-21290/5-A                  | Method Blank           | 95                                             | 98       |  |  |  |  |
| <b>Surrogate Legend</b>           |                        |                                                |          |  |  |  |  |
| 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) |  |  |  |  |
| 890-2059-1              | FS07             | 94                                             | 108      |  |  |  |  |
| 890-2059-1 MS           | FS07             | 83                                             | 86       |  |  |  |  |
| 890-2059-1 MSD          | FS07             | 82                                             | 85       |  |  |  |  |
| 890-2059-2              | FS08             | 90                                             | 100      |  |  |  |  |
| 890-2059-3              | FS09             | 97                                             | 110      |  |  |  |  |
| 890-2059-4              | FS10             | 90                                             | 102      |  |  |  |  |
| 890-2059-5              | FS11             | 89                                             | 102      |  |  |  |  |
| 890-2059-6              | FS12             | 92                                             | 104      |  |  |  |  |
| 890-2059-7              | FS13             | 93                                             | 103      |  |  |  |  |
| 890-2059-8              | FS14             | 90                                             | 101      |  |  |  |  |
| 890-2059-9              | FS15             | 90                                             | 105      |  |  |  |  |
| 890-2059-10             | FS16             | 94                                             | 109      |  |  |  |  |
| 890-2059-11             | FS17             | 89                                             | 103      |  |  |  |  |
| 890-2059-12             | FS18             | 93                                             | 106      |  |  |  |  |
| 890-2059-13             | FS19             | 94                                             | 109      |  |  |  |  |
| 890-2059-14             | FS20             | 92                                             | 107      |  |  |  |  |
| <b>Surrogate Legend</b> |                  |                                                |          |  |  |  |  |
| 1CO = 1-Chlorooctane    |                  |                                                |          |  |  |  |  |
| OTPH = o-Terphenyl      |                  |                                                |          |  |  |  |  |

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Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                      |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|----------------------|------------------------|------------------------------------------------|----------|--|--|--|--|
|                      |                        | 1CO2                                           | OTPH2    |  |  |  |  |
| Lab Sample ID        | Client Sample ID       | (70-130)                                       | (70-130) |  |  |  |  |
| LCS 880-21476/2-A    | Lab Control Sample     | 96                                             | 107      |  |  |  |  |
| LCSD 880-21476/3-A   | Lab Control Sample Dup | 102                                            | 116      |  |  |  |  |
| MB 880-21476/1-A     | Method Blank           | 98                                             | 117      |  |  |  |  |
| Surrogate Legend     |                        |                                                |          |  |  |  |  |
| 1CO = 1-Chlorooctane |                        |                                                |          |  |  |  |  |
| OTPH = o-Terphenyl   |                        |                                                |          |  |  |  |  |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Lab Sample ID: MB 880-21215/5-B

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21215

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/14/22 16:00 | 03/15/22 11:59 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 03/14/22 16:00 | 03/15/22 11:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 03/14/22 16:00 | 03/15/22 11:59 | 1       |

Lab Sample ID: MB 880-21290/5-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21290

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/11/22 11:16 | 03/15/22 23:34 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 | 03/11/22 11:16 | 03/15/22 23:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 03/11/22 11:16 | 03/15/22 23:34 | 1       |

Lab Sample ID: LCS 880-21290/1-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21290

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09296    |               | mg/Kg |   | 93   | 70 - 130     |
| Toluene             | 0.100       | 0.09412    |               | mg/Kg |   | 94   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09181    |               | mg/Kg |   | 92   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2221     |               | mg/Kg |   | 111  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1078     |               | mg/Kg |   | 108  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99            |               | 70 - 130 |

Lab Sample ID: LCSD 880-21290/2-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21290

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene | 0.100       | 0.09821     |                | mg/Kg |   | 98   | 70 - 130     | 5   | 35    |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Lab Sample ID: LCSD 880-21290/2-A

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21290

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Toluene             | 0.100       | 0.09710     |                | mg/Kg |   | 97   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.09525     |                | mg/Kg |   | 95   | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2293      |                | mg/Kg |   | 115  | 70 - 130     | 3   | 35        |
| o-Xylene            | 0.100       | 0.1116      |                | mg/Kg |   | 112  | 70 - 130     | 4   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 98             |                | 70 - 130 |

Lab Sample ID: 890-2059-1 MS

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 21290

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U                | 0.101       | 0.1057    |              | mg/Kg |   | 105  | 70 - 130     |
| Toluene             | <0.00200      | U                | 0.101       | 0.1053    |              | mg/Kg |   | 104  | 70 - 130     |
| Ethylbenzene        | <0.00200      | U                | 0.101       | 0.1030    |              | mg/Kg |   | 102  | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.202       | 0.2472    |              | mg/Kg |   | 123  | 70 - 130     |
| o-Xylene            | <0.00200      | U                | 0.101       | 0.1203    |              | mg/Kg |   | 119  | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 |

Lab Sample ID: 890-2059-1 MSD

Matrix: Solid

Analysis Batch: 21615

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 21290

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.0998      | 0.1057     |               | mg/Kg |   | 106  | 70 - 130     | 0   | 35        |
| Toluene             | <0.00200      | U                | 0.0998      | 0.1049     |               | mg/Kg |   | 105  | 70 - 130     | 0   | 35        |
| Ethylbenzene        | <0.00200      | U                | 0.0998      | 0.1036     |               | mg/Kg |   | 104  | 70 - 130     | 1   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.200       | 0.2450     |               | mg/Kg |   | 123  | 70 - 130     | 1   | 35        |
| o-Xylene            | <0.00200      | U                | 0.0998      | 0.1179     |               | mg/Kg |   | 118  | 70 - 130     | 2   | 35        |

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

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

Lab Sample ID: MB 880-21476/1-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/14/22 08:47 | 03/14/22 11:00 | 1       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Lab Sample ID: MB 880-21476/1-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 11:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 03/14/22 08:47 | 03/14/22 11:00 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98              |                 | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 11:00 | 1       |
| o-Terphenyl                          | 117             |                 | 70 - 130 |       |   | 03/14/22 08:47 | 03/14/22 11:00 | 1       |

Lab Sample ID: LCS 880-21476/2-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 976.8            |                  | mg/Kg |   | 98   | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000             | 925.3            |                  | mg/Kg |   | 93   | 70 - 130        |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                 |
| 1-Chlorooctane                       | 96               |                  | 70 - 130         |       |   |      |                 |
| o-Terphenyl                          | 107              |                  | 70 - 130         |       |   |      |                 |

Lab Sample ID: LCSD 880-21476/3-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 964.6             |                   | mg/Kg |   | 96   | 70 - 130        | 1   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 898.5             |                   | mg/Kg |   | 90   | 70 - 130        | 3   | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                 |     |              |
| 1-Chlorooctane                       | 102               |                   | 70 - 130          |       |   |      |                 |     |              |
| o-Terphenyl                          | 116               |                   | 70 - 130          |       |   |      |                 |     |              |

Lab Sample ID: 890-2059-1 MS

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8            | U                   | 998            | 942.6        |                 | mg/Kg |   | 92   | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | <49.8            | U                   | 998            | 879.2        |                 | mg/Kg |   | 85   | 70 - 130        |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                 |
| 1-Chlorooctane                       | 83               |                     | 70 - 130       |              |                 |       |   |      |                 |
| o-Terphenyl                          | 86               |                     | 70 - 130       |              |                 |       |   |      |                 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

Lab Sample ID: 890-2059-1 MSD

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: FS07

Prep Type: Total/NA

Prep Batch: 21476

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 927.2      |               | mg/Kg |   | 91   | 70 - 130     | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | <49.8         | U                | 998         | 865.3      |               | mg/Kg |   | 84   | 70 - 130     | 2   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 82            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 85            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21308/1-A

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 03/19/22 11:23 | 1       |

Lab Sample ID: LCS 880-21308/2-A

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-21308/3-A

Matrix: Solid

Analysis Batch: 21949

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         | 257.9       |                | mg/Kg |   | 103  | 90 - 110     | 0   | 20        |

Lab Sample ID: 890-2059-5 MS

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: FS11

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 245           | ^2               | 249         | 495.1     |              | mg/Kg |   | 101  | 90 - 110     |

Lab Sample ID: 890-2059-5 MSD

Matrix: Solid

Analysis Batch: 21949

Client Sample ID: FS11

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 245           | ^2               | 249         | 491.3      |               | mg/Kg |   | 99   | 90 - 110     | 1   | 20        |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-21310/1-A

Matrix: Solid

Analysis Batch: 21970

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 03/21/22 17:08 | 1       |

Lab Sample ID: LCS 880-21310/2-A

Matrix: Solid

Analysis Batch: 21970

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 273.1         |                  | mg/Kg |   | 109  | 90 - 110        |

Lab Sample ID: LCSD 880-21310/3-A

Matrix: Solid

Analysis Batch: 21970

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 274.8          |                   | mg/Kg |   | 110  | 90 - 110        | 1   | 20           |

Lab Sample ID: 880-12263-A-18-D MS

Matrix: Solid

Analysis Batch: 21970

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 192              |                     | 248            | 457.4        |                 | mg/Kg |   | 107  | 90 - 110        |

Lab Sample ID: 880-12263-A-18-E MSD

Matrix: Solid

Analysis Batch: 21970

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 192              |                     | 248            | 454.9         |                  | mg/Kg |   | 106  | 90 - 110        | 1   | 20           |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## GC VOA

## Prep Batch: 21215

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-21215/5-B | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 21290

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2059-1         | FS07                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-2         | FS08                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-3         | FS09                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-4         | FS10                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-5         | FS11                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-6         | FS12                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-7         | FS13                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-8         | FS14                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-9         | FS15                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-10        | FS16                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-11        | FS17                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-12        | FS18                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-13        | FS19                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-14        | FS20                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21290/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21290/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21290/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2059-1 MS      | FS07                   | Total/NA  | Solid  | 5035   |            |
| 890-2059-1 MSD     | FS07                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21615

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2059-1         | FS07                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-2         | FS08                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-3         | FS09                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-4         | FS10                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-5         | FS11                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-6         | FS12                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-7         | FS13                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-8         | FS14                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-9         | FS15                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-10        | FS16                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-11        | FS17                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-12        | FS18                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-13        | FS19                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-14        | FS20                   | Total/NA  | Solid  | 8021B  | 21290      |
| MB 880-21215/5-B   | Method Blank           | Total/NA  | Solid  | 8021B  | 21215      |
| MB 880-21290/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21290      |
| LCS 880-21290/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21290      |
| LCSD 880-21290/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-1 MS      | FS07                   | Total/NA  | Solid  | 8021B  | 21290      |
| 890-2059-1 MSD     | FS07                   | Total/NA  | Solid  | 8021B  | 21290      |

## Analysis Batch: 21726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2059-1    | FS07             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-2    | FS08             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## GC VOA (Continued)

## Analysis Batch: 21726 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2059-3    | FS09             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-4    | FS10             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-5    | FS11             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-6    | FS12             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-7    | FS13             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-8    | FS14             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-9    | FS15             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-10   | FS16             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-11   | FS17             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-12   | FS18             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-13   | FS19             | Total/NA  | Solid  | Total BTEX |            |
| 890-2059-14   | FS20             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 21460

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2059-1         | FS07                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-2         | FS08                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-3         | FS09                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-4         | FS10                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-5         | FS11                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-6         | FS12                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-7         | FS13                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-8         | FS14                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-9         | FS15                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-10        | FS16                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-11        | FS17                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-12        | FS18                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-13        | FS19                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-14        | FS20                   | Total/NA  | Solid  | 8015B NM | 21476      |
| MB 880-21476/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21476      |
| LCS 880-21476/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21476      |
| LCSD 880-21476/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-1 MS      | FS07                   | Total/NA  | Solid  | 8015B NM | 21476      |
| 890-2059-1 MSD     | FS07                   | Total/NA  | Solid  | 8015B NM | 21476      |

## Prep Batch: 21476

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2059-1    | FS07             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-2    | FS08             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-3    | FS09             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-4    | FS10             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-5    | FS11             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-6    | FS12             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-7    | FS13             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-8    | FS14             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-9    | FS15             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-10   | FS16             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-11   | FS17             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-12   | FS18             | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## GC Semi VOA (Continued)

## Prep Batch: 21476 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2059-13        | FS19                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-14        | FS20                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21476/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21476/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21476/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-1 MS      | FS07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2059-1 MSD     | FS07                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21628

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2059-1    | FS07             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-2    | FS08             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-3    | FS09             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-4    | FS10             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-5    | FS11             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-6    | FS12             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-7    | FS13             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-8    | FS14             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-9    | FS15             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-10   | FS16             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-11   | FS17             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-12   | FS18             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-13   | FS19             | Total/NA  | Solid  | 8015 NM |            |
| 890-2059-14   | FS20             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 21308

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2059-1         | FS07                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-2         | FS08                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-3         | FS09                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-4         | FS10                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-5         | FS11                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-6         | FS12                   | Soluble   | Solid  | DI Leach |            |
| MB 880-21308/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21308/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21308/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2059-5 MS      | FS11                   | Soluble   | Solid  | DI Leach |            |
| 890-2059-5 MSD     | FS11                   | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 21310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2059-7    | FS13             | Soluble   | Solid  | DI Leach |            |
| 890-2059-8    | FS14             | Soluble   | Solid  | DI Leach |            |
| 890-2059-9    | FS15             | Soluble   | Solid  | DI Leach |            |
| 890-2059-10   | FS16             | Soluble   | Solid  | DI Leach |            |
| 890-2059-11   | FS17             | Soluble   | Solid  | DI Leach |            |
| 890-2059-12   | FS18             | Soluble   | Solid  | DI Leach |            |
| 890-2059-13   | FS19             | Soluble   | Solid  | DI Leach |            |
| 890-2059-14   | FS20             | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## HPLC/IC (Continued)

## Leach Batch: 21310 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| MB 880-21310/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-21310/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-21310/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12263-A-18-D MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12263-A-18-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 21949

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2059-1         | FS07                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-2         | FS08                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-3         | FS09                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-4         | FS10                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-5         | FS11                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-6         | FS12                   | Soluble   | Solid  | 300.0  | 21308      |
| MB 880-21308/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 21308      |
| LCS 880-21308/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21308      |
| LCSD 880-21308/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-5 MS      | FS11                   | Soluble   | Solid  | 300.0  | 21308      |
| 890-2059-5 MSD     | FS11                   | Soluble   | Solid  | 300.0  | 21308      |

## Analysis Batch: 21970

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2059-7           | FS13                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-8           | FS14                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-9           | FS15                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-10          | FS16                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-11          | FS17                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-12          | FS18                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-13          | FS19                   | Soluble   | Solid  | 300.0  | 21310      |
| 890-2059-14          | FS20                   | Soluble   | Solid  | 300.0  | 21310      |
| MB 880-21310/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 21310      |
| LCS 880-21310/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 21310      |
| LCSD 880-21310/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 21310      |
| 880-12263-A-18-D MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 21310      |
| 880-12263-A-18-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 21310      |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS07

Lab Sample ID: 890-2059-1

Date Collected: 03/08/22 10:50

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 00:02       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 12:04       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/20/22 12:03       | SC      | XEN MID |

Client Sample ID: FS08

Lab Sample ID: 890-2059-2

Date Collected: 03/08/22 10:56

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 00:23       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 13:07       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/20/22 12:13       | SC      | XEN MID |

Client Sample ID: FS09

Lab Sample ID: 890-2059-3

Date Collected: 03/08/22 11:06

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 00:43       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 13:28       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/19/22 13:58       | SC      | XEN MID |

Client Sample ID: FS10

Lab Sample ID: 890-2059-4

Date Collected: 03/08/22 11:10

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 01:04       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS10

Lab Sample ID: 890-2059-4

Date Collected: 03/08/22 11:10

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 13:49       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/20/22 12:24       | SC      | XEN MID |

Client Sample ID: FS11

Lab Sample ID: 890-2059-5

Date Collected: 03/08/22 13:02

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 01:24       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 14:10       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/19/22 14:19       | SC      | XEN MID |

Client Sample ID: FS12

Lab Sample ID: 890-2059-6

Date Collected: 03/08/22 13:08

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 01:45       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 14:31       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21308        | 03/10/22 12:10       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21949        | 03/20/22 12:35       | SC      | XEN MID |

Client Sample ID: FS13

Lab Sample ID: 890-2059-7

Date Collected: 03/08/22 13:12

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 02:06       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 14:53       | AJ      | XEN MID |

Eurofins Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

## Client Sample ID: FS13

## Lab Sample ID: 890-2059-7

Date Collected: 03/08/22 13:12

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 20:05       | CH      | XEN MID |

## Client Sample ID: FS14

## Lab Sample ID: 890-2059-8

Date Collected: 03/08/22 14:00

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 02:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 15:14       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 20:14       | CH      | XEN MID |

## Client Sample ID: FS15

## Lab Sample ID: 890-2059-9

Date Collected: 03/08/22 14:04

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 02:47       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 15:35       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 21970        | 03/21/22 20:41       | CH      | XEN MID |

## Client Sample ID: FS16

## Lab Sample ID: 890-2059-10

Date Collected: 03/08/22 14:08

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 03:07       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 15:56       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 5               | 21970        | 03/21/22 20:50       | CH      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS17

Lab Sample ID: 890-2059-11

Date Collected: 03/08/22 14:20

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 04:58       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 17:41       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 20:59       | CH      | XEN MID |

Client Sample ID: FS18

Lab Sample ID: 890-2059-12

Date Collected: 03/08/22 14:48

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 05:18       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 18:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 21:08       | CH      | XEN MID |

Client Sample ID: FS19

Lab Sample ID: 890-2059-13

Date Collected: 03/08/22 15:20

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 05:38       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 18:23       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 21:17       | CH      | XEN MID |

Client Sample ID: FS20

Lab Sample ID: 890-2059-14

Date Collected: 03/08/22 15:24

Matrix: Solid

Date Received: 03/09/22 13:05

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21290        | 03/11/22 11:16       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21615        | 03/16/22 05:59       | AJ      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 21726        | 03/16/22 12:19       | AJ      | XEN MID |

Eurofins Carlsbad



Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

Client Sample ID: FS20  
Date Collected: 03/08/22 15:24  
Date Received: 03/09/22 13:05

Lab Sample ID: 890-2059-14  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21628        | 03/15/22 10:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21476        | 03/14/22 08:47       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21460        | 03/14/22 18:44       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 21310        | 03/10/22 12:21       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 21970        | 03/21/22 21:25       | CH      | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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   | T104704400-21-22      | 06-30-22        |

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

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

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

## Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2059-1  
SDG: 31403236.022.0129 task 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2059-1    | FS07             | Solid  | 03/08/22 10:50 | 03/09/22 13:05 | 2     |
| 890-2059-2    | FS08             | Solid  | 03/08/22 10:56 | 03/09/22 13:05 | 2     |
| 890-2059-3    | FS09             | Solid  | 03/08/22 11:06 | 03/09/22 13:05 | 2     |
| 890-2059-4    | FS10             | Solid  | 03/08/22 11:10 | 03/09/22 13:05 | 2     |
| 890-2059-5    | FS11             | Solid  | 03/08/22 13:02 | 03/09/22 13:05 | 2     |
| 890-2059-6    | FS12             | Solid  | 03/08/22 13:08 | 03/09/22 13:05 | 2     |
| 890-2059-7    | FS13             | Solid  | 03/08/22 13:12 | 03/09/22 13:05 | 2     |
| 890-2059-8    | FS14             | Solid  | 03/08/22 14:00 | 03/09/22 13:05 | 2     |
| 890-2059-9    | FS15             | Solid  | 03/08/22 14:04 | 03/09/22 13:05 | 1     |
| 890-2059-10   | FS16             | Solid  | 03/08/22 14:08 | 03/09/22 13:05 | 1     |
| 890-2059-11   | FS17             | Solid  | 03/08/22 14:20 | 03/09/22 13:05 | 1     |
| 890-2059-12   | FS18             | Solid  | 03/08/22 14:48 | 03/09/22 13:05 | 1     |
| 890-2059-13   | FS19             | Solid  | 03/08/22 15:20 | 03/09/22 13:05 | 2     |
| 890-2059-14   | FS20             | Solid  | 03/08/22 15:24 | 03/09/22 13:05 | 2     |



## Chain of Custody

Work Order No: \_\_\_\_\_

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

www.xenco.com

Page 1 of 2

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|
| <b>Program:</b> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Deepfund <input type="checkbox"/><br><b>State of Project:</b><br>Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/><br>Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____ |  | <b>Work Order Comments</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|

|                 |                              |             |   |                  |                  |
|-----------------|------------------------------|-------------|---|------------------|------------------|
| Project Name:   | PLU BS 101H                  | Turn Around |   | ANALYSIS REQUEST | Work Order Notes |
| Project Number: | 31403236.022.0129 Task 10.02 | Routine     | ✓ |                  |                  |
| P.O. Number:    |                              | Rush:       |   |                  |                  |
| Sampler's Name: | Mercy Roich.                 | Due Date:   |   |                  |                  |

|                |                       |                |    |                         |     |    |
|----------------|-----------------------|----------------|----|-------------------------|-----|----|
| SAMPLE RECEIPT | Temp Blank:           | Yes            | No | Wet Ice:                | Yes | No |
|                | Temperature (°C):     | Thermometer ID |    |                         |     |    |
|                | Received Intact:      | Yes            | No | Correction Factor: -0.2 |     |    |
|                | Cooler Custody Seals: | Yes            | No | Total Containers:       |     |    |

890-2059 Chain of Custody



| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  | Sample Comments |  |  |          |
|-----------------------|--------|--------------|--------------|-------|----------------------|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|-----------------|--|--|----------|
| FS07                  | S      | 03/08/22     | 10:50        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS08                  | S      | 03/08/22     | 10:56        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS09                  | S      | 03/08/22     | 11:06        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS10                  | S      | 03/08/22     | 11:10        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS11                  | S      | 03/08/22     | 13:02        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS12                  | S      | 03/08/22     | 13:08        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS13                  | S      | 03/08/22     | 13:12        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS14                  | S      | 03/08/22     | 14:00        | 2'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS15                  | S      | 03/08/22     | 14:04        | 1'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |
| FS16                  | S      | 03/08/22     | 14:08        | 1'    | 1                    | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |                 |  |  | Discrete |

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

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|                              |                          |                |                              |                          |           |
|------------------------------|--------------------------|----------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| Moya                         | CLM                      | 3/22/2022 1305 |                              |                          |           |
|                              |                          |                |                              |                          |           |
|                              |                          |                |                              |                          |           |
|                              |                          |                |                              |                          |           |



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: \_\_\_\_\_

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

|                    |                             |                                      |                             |                                   |                          |
|--------------------|-----------------------------|--------------------------------------|-----------------------------|-----------------------------------|--------------------------|
| Program: UST/PST   | <input type="checkbox"/> RP | <input type="checkbox"/> Brownfields | <input type="checkbox"/> RC | <input type="checkbox"/> Tperfund | <input type="checkbox"/> |
| State of Project:  |                             |                                      |                             |                                   |                          |
| Reporting Level II | <input type="checkbox"/>    | Level III                            | <input type="checkbox"/>    | T/UST                             | <input type="checkbox"/> |
| Deliverables: EDD  | <input type="checkbox"/>    | AdAPT                                | <input type="checkbox"/>    | Other:                            | <input type="checkbox"/> |

|                       |                              |              |                                     |                    |                      |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
|-----------------------|------------------------------|--------------|-------------------------------------|--------------------|----------------------|----|-----------|-----|----|--|--|--|--|--|--|------------------------|-----------------|--|--|--|--|---------------------------------------------------------------|
| Project Name:         | PLU BS 101H                  | Turn Around  | <input checked="" type="checkbox"/> | ANALYSIS REQUEST   |                      |    |           |     |    |  |  |  |  |  |  | Work Order Notes       |                 |  |  |  |  |                                                               |
| Project Number:       | 31403236.022.0129 Task 10.02 | Routine      | <input checked="" type="checkbox"/> |                    |                      |    |           |     |    |  |  |  |  |  |  | API: 30-015-46940      |                 |  |  |  |  |                                                               |
| P.O. Number:          |                              | Rush:        | <input type="checkbox"/>            |                    |                      |    |           |     |    |  |  |  |  |  |  | AFE:DD:2017.01965,CAP. |                 |  |  |  |  |                                                               |
| Sampler's Name:       | Mercy Notch.                 | Due Date:    |                                     |                    |                      |    |           |     |    |  |  |  |  |  |  | CAP.01                 |                 |  |  |  |  |                                                               |
| SAMPLE RECEIPT        |                              |              |                                     | Temp Blank:        | Yes                  | No | Well Ice: | Yes | No |  |  |  |  |  |  |                        |                 |  |  |  |  | TAT starts the day received by the lab, if received by 4:30pm |
| Temperature (°C):     |                              | Yes          | No                                  | Thermometer ID     |                      |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
| Received Intact:      |                              | Yes          | No                                  | Correction Factor: |                      |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
| Cooler Custody Seals: | Yes                          | No           | N/A                                 | Total Containers:  |                      |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
| Sample Custody Seals: | Yes                          | No           | N/A                                 |                    |                      |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
| Sample Identification | Matrix                       | Date Sampled | Time Sampled                        | Depth              | Number of Containers |    |           |     |    |  |  |  |  |  |  |                        | Sample Comments |  |  |  |  |                                                               |
|                       |                              |              |                                     |                    | TPH (EPA 8015)       |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
|                       |                              |              |                                     |                    | BTEX (EPA 0-8021)    |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
|                       |                              |              |                                     |                    | Chloride (EPA 300.0) |    |           |     |    |  |  |  |  |  |  |                        |                 |  |  |  |  |                                                               |
| FS17                  | S                            | 03/08/22     | 14:20                               | 1'                 | 1                    | X  | X         | X   |    |  |  |  |  |  |  | Discrete               |                 |  |  |  |  |                                                               |
| FS18                  | S                            | 03/08/22     | 14:48                               | 1'                 | 1                    | X  | X         | X   |    |  |  |  |  |  |  | Discrete               |                 |  |  |  |  |                                                               |
| FS19                  | S                            | 03/08/22     | 15:20                               | 2'                 | 1                    | X  | X         | X   |    |  |  |  |  |  |  | Discrete               |                 |  |  |  |  |                                                               |
| FS20                  | S                            | 03/08/22     | 15:24                               | 2'                 | 1                    | X  | X         | X   |    |  |  |  |  |  |  | Discrete               |                 |  |  |  |  |                                                               |

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 |
| W. J. J.                     | C. C. J.                 | 3/9/22/13:05 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-2071-1

Laboratory SDG: 31403236.022.0129 TASK 10.02

Client Project/Site: PLU BS 101H

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

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

Authorized for release by:  
4/6/2022 11:07:37 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.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.*



Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Laboratory Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1-       | Surrogate recovery exceeds control limits, low biased.   |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| U         | Indicates the analyte was analyzed for but not detected.                                                                                                  |

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

---

**Job ID: 890-2071-1**

---

**Laboratory: Eurofins Carlsbad**

---

**Narrative**

---

**Job Narrative  
890-2071-1****Receipt**

The samples were received on 3/11/2022 11:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21734 and analytical batch 880-21936 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-2063-A-12-D MSD). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS21

Lab Sample ID: 890-2071-1

Date Collected: 03/09/22 09:20

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U F1      | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| Xylenes, Total      | <0.00399 | U F1      | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:45 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 10:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 10:45 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:20 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:20 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:20 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 93        |           | 70 - 130 | 03/14/22 09:30 | 03/14/22 17:20 | 1       |
| o-Terphenyl    | 97        |           | 70 - 130 | 03/14/22 09:30 | 03/14/22 17:20 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 927    |           | 505 | mg/L |   |          | 03/30/22 14:48 | 50      |

Client Sample ID: FS22

Lab Sample ID: 890-2071-2

Date Collected: 03/09/22 09:24

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 11:06 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS22

Lab Sample ID: 890-2071-2

Date Collected: 03/09/22 09:24

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 107       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 11:06 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:41 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 17:41 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 17:41 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 17:41 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 726    |           | 483 | mg/L |   |          | 03/30/22 15:04 | 50      |

Client Sample ID: FS23

Lab Sample ID: 890-2071-3

Date Collected: 03/09/22 09:28

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 11:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 11:27 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 93.1   |           | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS23

## Lab Sample ID: 890-2071-3

Date Collected: 03/09/22 09:28

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                                     | Result      | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10        | <50.0       | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:02 | 1       |
| <b>Diesel Range Organics (Over C10-C28)</b> | <b>93.1</b> |           | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:02 | 1       |
| Oil Range Organics (Over C28-C36)           | <50.0       | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:02 | 1       |
| Surrogate                                   | %Recovery   | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                              | 93          |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:02 | 1       |
| o-Terphenyl                                 | 97          |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:02 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 2480   |           | 504 | mg/L |   |          | 03/30/22 15:36 | 50      |

## Client Sample ID: FS24

## Lab Sample ID: 890-2071-4

Date Collected: 03/09/22 09:34

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 11:47 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte          | Result      | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------------|-------------|-----------|------|-------|---|----------|----------------|---------|
| <b>Total TPH</b> | <b>87.8</b> |           | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                                     | Result      | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|-------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10        | <49.9       | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:23 | 1       |
| <b>Diesel Range Organics (Over C10-C28)</b> | <b>87.8</b> |           | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:23 | 1       |
| Oil Range Organics (Over C28-C36)           | <49.9       | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:23 | 1       |
| Surrogate                                   | %Recovery   | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                              | 98          |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:23 | 1       |
| o-Terphenyl                                 | 101         |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:23 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS24

## Lab Sample ID: 890-2071-4

Date Collected: 03/09/22 09:34

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 1810   |           | 508 | mg/L |   |          | 03/30/22 15:52 | 50      |

## Client Sample ID: FS25

## Lab Sample ID: 890-2071-5

Date Collected: 03/09/22 09:38

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 12:08 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:44 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:44 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 18:44 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 99        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:44 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 18:44 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 1870   |           | 510 | mg/L |   |          | 03/30/22 16:08 | 50      |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS26

Lab Sample ID: 890-2071-6

Date Collected: 03/09/22 09:42

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 12:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 12:28 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:05 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:05 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:05 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 03/14/22 09:30 | 03/14/22 19:05 | 1       |
| o-Terphenyl    | 102       |           | 70 - 130 | 03/14/22 09:30 | 03/14/22 19:05 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 2010   |           | 494 | mg/L |   |          | 03/30/22 16:25 | 50      |

Client Sample ID: FS27

Lab Sample ID: 890-2071-7

Date Collected: 03/09/22 10:02

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 12:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 12:49 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS27

Lab Sample ID: 890-2071-7

Date Collected: 03/09/22 10:02

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 109       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 12:49 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:26 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:26 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:26 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 97        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 19:26 | 1       |
| o-Terphenyl                          | 102       |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 19:26 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 768    |           | 498 | mg/L |   |          | 03/30/22 16:41 | 50      |

Client Sample ID: FS28

Lab Sample ID: 890-2071-8

Date Collected: 03/09/22 10:10

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 13:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 13:09 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS28

## Lab Sample ID: 890-2071-8

Date Collected: 03/09/22 10:10

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:47 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 19:47 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 19:47 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 19:47 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 335    |           | 100 | mg/L |   |          | 03/31/22 17:28 | 10      |

## Client Sample ID: FS29

## Lab Sample ID: 890-2071-9

Date Collected: 03/09/22 10:16

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 13:29 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 20:07 | 1       |
| o-Terphenyl                          | 105       |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 20:07 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS29

## Lab Sample ID: 890-2071-9

Date Collected: 03/09/22 10:16

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 392    |           | 100 | mg/L |   |          | 03/31/22 17:12 | 10      |

## Client Sample ID: FS30

## Lab Sample ID: 890-2071-10

Date Collected: 03/09/22 10:30

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 13:50 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 20:28 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 90        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 20:28 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 20:28 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|------|---|----------|----------------|---------|
| Chloride | 430    |           | 101 | mg/L |   |          | 03/31/22 17:04 | 10      |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS31

Lab Sample ID: 890-2071-11

Date Collected: 03/09/22 10:50

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:12 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:12 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 560    |           | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:11 | 1       |
| Diesel Range Organics (Over C10-C28) | 560    |           | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:11 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:11 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 116       |           | 70 - 130 | 03/14/22 09:23 | 03/14/22 17:11 | 1       |
| o-Terphenyl    | 107       |           | 70 - 130 | 03/14/22 09:23 | 03/14/22 17:11 | 1       |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|------|---|----------|----------------|---------|
| Chloride | 372    |           | 98.2 | mg/L |   |          | 03/31/22 17:20 | 10      |

Client Sample ID: FS32

Lab Sample ID: 890-2071-12

Date Collected: 03/09/22 10:54

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:32 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS32

Lab Sample ID: 890-2071-12

Date Collected: 03/09/22 10:54

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 107       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:32 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 17:31 | 1       |
| o-Terphenyl                          | 108       |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 17:31 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 215    |           | 4.97 | mg/Kg |   |          | 03/24/22 00:28 | 1       |

Client Sample ID: FS33

Lab Sample ID: 890-2071-13

Date Collected: 03/09/22 11:10

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 15:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:53 | 1       |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 15:53 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 67.6   |           | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS33

## Lab Sample ID: 890-2071-13

Date Collected: 03/09/22 11:10

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:52 | 1       |
| Diesel Range Organics (Over C10-C28) | 67.6      |           | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 17:52 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 17:52 | 1       |
| o-Terphenyl                          | 90        |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 17:52 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 388    |           | 4.99 | mg/Kg |   |          | 03/24/22 00:37 | 1       |

## Client Sample ID: FS34

## Lab Sample ID: 890-2071-14

Date Collected: 03/09/22 11:16

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 16:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:12 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:12 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100       |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 18:12 | 1       |
| o-Terphenyl                          | 97        |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 18:12 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS34

Lab Sample ID: 890-2071-14

Date Collected: 03/09/22 11:16

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 734    |           | 5.05 | mg/Kg |   |          | 03/24/22 00:45 | 1       |

## Client Sample ID: FS35

Lab Sample ID: 890-2071-15

Date Collected: 03/09/22 11:20

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 |       |   | 03/17/22 13:12 | 03/20/22 16:34 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 191    |           | 49.9 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:32 | 1       |
| Diesel Range Organics (Over C10-C28) | 191       |           | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 18:32 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 18:32 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 257    |           | 4.97 | mg/Kg |   |          | 03/24/22 00:54 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS36

Lab Sample ID: 890-2071-16

Date Collected: 03/09/22 11:26

Matrix: Solid

Date Received: 03/11/22 11:17

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 16:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 16:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 03/17/22 13:12 | 03/20/22 16:54 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 | mg/Kg |   |          | 03/21/22 13:26 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 79.9   |           | 50.0 | mg/Kg |   |          | 03/15/22 10:08 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:53 | 1       |
| Diesel Range Organics (Over C10-C28) | 79.9   |           | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 18:53 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 115       |           | 70 - 130 | 03/14/22 09:23 | 03/14/22 18:53 | 1       |
| o-Terphenyl    | 107       |           | 70 - 130 | 03/14/22 09:23 | 03/14/22 18:53 | 1       |

## Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 327    |           | 5.01 | mg/Kg |   |          | 03/24/22 01:03 | 1       |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2071-1                        | FS21                   | 103                                            | 110               |
| 890-2071-1 MS                     | FS21                   | 107                                            | 111               |
| 890-2071-1 MSD                    | FS21                   | 108                                            | 112               |
| 890-2071-2                        | FS22                   | 109                                            | 107               |
| 890-2071-3                        | FS23                   | 106                                            | 110               |
| 890-2071-4                        | FS24                   | 108                                            | 112               |
| 890-2071-5                        | FS25                   | 103                                            | 108               |
| 890-2071-6                        | FS26                   | 106                                            | 104               |
| 890-2071-7                        | FS27                   | 105                                            | 109               |
| 890-2071-8                        | FS28                   | 109                                            | 113               |
| 890-2071-9                        | FS29                   | 100                                            | 108               |
| 890-2071-10                       | FS30                   | 106                                            | 109               |
| 890-2071-11                       | FS31                   | 102                                            | 99                |
| 890-2071-12                       | FS32                   | 101                                            | 107               |
| 890-2071-13                       | FS33                   | 108                                            | 112               |
| 890-2071-14                       | FS34                   | 105                                            | 109               |
| 890-2071-15                       | FS35                   | 105                                            | 106               |
| 890-2071-16                       | FS36                   | 102                                            | 107               |
| LCS 880-21734/1-A                 | Lab Control Sample     | 105                                            | 112               |
| LCSD 880-21734/2-A                | Lab Control Sample Dup | 105                                            | 112               |
| MB 880-21729/5-A                  | Method Blank           | 101                                            | 105               |
| MB 880-21734/5-A                  | Method Blank           | 101                                            | 103               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2063-A-1-E MS   | Matrix Spike           | 86                                             | 75                |
| 890-2063-A-1-F MSD  | Matrix Spike Duplicate | 86                                             | 72                |
| 890-2063-A-12-C MS  | Matrix Spike           | 94                                             | 82                |
| 890-2063-A-12-D MSD | Matrix Spike Duplicate | 76                                             | 68 S1-            |
| 890-2071-1          | FS21                   | 93                                             | 97                |
| 890-2071-2          | FS22                   | 92                                             | 96                |
| 890-2071-3          | FS23                   | 93                                             | 97                |
| 890-2071-4          | FS24                   | 98                                             | 101               |
| 890-2071-5          | FS25                   | 99                                             | 103               |
| 890-2071-6          | FS26                   | 100                                            | 102               |
| 890-2071-7          | FS27                   | 97                                             | 102               |
| 890-2071-8          | FS28                   | 94                                             | 96                |
| 890-2071-9          | FS29                   | 102                                            | 105               |
| 890-2071-10         | FS30                   | 90                                             | 93                |
| 890-2071-11         | FS31                   | 116                                            | 107               |
| 890-2071-12         | FS32                   | 115                                            | 108               |
| 890-2071-13         | FS33                   | 98                                             | 90                |

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## Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-2071-1

Project/Site: PLU BS 101H

SDG: 31403236.022.0129 TASK 10.02

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2071-14             | FS34                   | 100                                            | 97                |
| 890-2071-15             | FS35                   | 98                                             | 93                |
| 890-2071-16             | FS36                   | 115                                            | 107               |
| LCS 880-21500/2-A       | Lab Control Sample     | 120                                            | 121               |
| LCS 880-21504/2-A       | Lab Control Sample     | 109                                            | 110               |
| LCSD 880-21500/3-A      | Lab Control Sample Dup | 124                                            | 124               |
| LCSD 880-21504/3-A      | Lab Control Sample Dup | 107                                            | 107               |
| MB 880-21500/1-A        | Method Blank           | 113                                            | 116               |
| MB 880-21504/1-A        | Method Blank           | 102                                            | 111               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21729/5-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21729

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/18/22 12:55 | 03/19/22 23:28 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 03/18/22 12:55 | 03/19/22 23:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 | 03/18/22 12:55 | 03/19/22 23:28 | 1       |

Lab Sample ID: MB 880-21734/5-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21734

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/17/22 13:12 | 03/20/22 10:24 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 03/17/22 13:12 | 03/20/22 10:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 03/17/22 13:12 | 03/20/22 10:24 | 1       |

Lab Sample ID: LCS 880-21734/1-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21734

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1095     |               | mg/Kg |   | 109  | 70 - 130    |
| Toluene             | 0.100       | 0.1069     |               | mg/Kg |   | 107  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1069     |               | mg/Kg |   | 107  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2187     |               | mg/Kg |   | 109  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1086     |               | mg/Kg |   | 109  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112           |               | 70 - 130 |

Lab Sample ID: LCSD 880-21734/2-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21734

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.09903     |                | mg/Kg |   | 99   | 70 - 130    | 10  | 35        |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCSD 880-21734/2-A

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21734

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.09588     |                | mg/Kg |   | 96   | 70 - 130    | 11  | 35        |
| Ethylbenzene        | 0.100       | 0.09652     |                | mg/Kg |   | 97   | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1979      |                | mg/Kg |   | 99   | 70 - 130    | 10  | 35        |
| o-Xylene            | 0.100       | 0.09833     |                | mg/Kg |   | 98   | 70 - 130    | 10  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 105            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112            |                | 70 - 130 |

Lab Sample ID: 890-2071-1 MS

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 21734

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00200      | U                | 0.101       | 0.08638   |              | mg/Kg |   | 86   | 70 - 130    |
| Toluene             | <0.00200      | U                | 0.101       | 0.07999   |              | mg/Kg |   | 79   | 70 - 130    |
| Ethylbenzene        | <0.00200      | U                | 0.101       | 0.07898   |              | mg/Kg |   | 78   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.202       | 0.1275    | F1           | mg/Kg |   | 63   | 70 - 130    |
| o-Xylene            | <0.00200      | U                | 0.101       | 0.08010   |              | mg/Kg |   | 79   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 107          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130 |

Lab Sample ID: 890-2071-1 MSD

Matrix: Solid

Analysis Batch: 21936

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 21734

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.101       | 0.09012    |               | mg/Kg |   | 89   | 70 - 130    | 4   | 35        |
| Toluene             | <0.00200      | U                | 0.101       | 0.08254    |               | mg/Kg |   | 81   | 70 - 130    | 3   | 35        |
| Ethylbenzene        | <0.00200      | U                | 0.101       | 0.07898    |               | mg/Kg |   | 78   | 70 - 130    | 0   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1             | 0.202       | 0.1208     | F1            | mg/Kg |   | 60   | 70 - 130    | 5   | 35        |
| o-Xylene            | <0.00200      | U                | 0.101       | 0.08126    |               | mg/Kg |   | 81   | 70 - 130    | 1   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112           |               | 70 - 130 |

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

Lab Sample ID: MB 880-21500/1-A

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | MB Result | MB Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 | mg/Kg |   | 03/14/22 09:23 | 03/14/22 11:32 | 1       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: MB 880-21500/1-A

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0           | U               | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 11:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0           | U               | 50.0     | mg/Kg |   | 03/14/22 09:23 | 03/14/22 11:32 | 1       |
| Surrogate                            | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 113             |                 | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 11:32 | 1       |
| o-Terphenyl                          | 116             |                 | 70 - 130 |       |   | 03/14/22 09:23 | 03/14/22 11:32 | 1       |

Lab Sample ID: LCS 880-21500/2-A

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000             | 1006             |                  | mg/Kg |   | 101  | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 1000             | 1080             |                  | mg/Kg |   | 108  | 70 - 130       |
| Surrogate                            | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 1-Chlorooctane                       | 120              |                  | 70 - 130         |       |   |      |                |
| o-Terphenyl                          | 121              |                  | 70 - 130         |       |   |      |                |

Lab Sample ID: LCSD 880-21500/3-A

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | Spike<br>Added    | LCSD<br>Result    | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------|-------------------|-------------------|-------------------|-------|---|------|----------------|-----|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000              | 1008              |                   | mg/Kg |   | 101  | 70 - 130       | 0   | 20           |
| Diesel Range Organics (Over C10-C28) | 1000              | 1230              |                   | mg/Kg |   | 123  | 70 - 130       | 13  | 20           |
| Surrogate                            | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits            |       |   |      |                |     |              |
| 1-Chlorooctane                       | 124               |                   | 70 - 130          |       |   |      |                |     |              |
| o-Terphenyl                          | 124               |                   | 70 - 130          |       |   |      |                |     |              |

Lab Sample ID: 890-2063-A-1-E MS

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|--------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8            | U                   | 998            | 824.0        |                 | mg/Kg |   | 83   | 70 - 130       |
| Diesel Range Organics (Over C10-C28) | 50.1             |                     | 998            | 889.2        |                 | mg/Kg |   | 84   | 70 - 130       |
| Surrogate                            | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| 1-Chlorooctane                       | 86               |                     | 70 - 130       |              |                 |       |   |      |                |
| o-Terphenyl                          | 75               |                     | 70 - 130       |              |                 |       |   |      |                |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: 890-2063-A-1-F MSD

Matrix: Solid

Analysis Batch: 21456

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21500

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8         | U                | 998         | 894.6      |               | mg/Kg |   | 90   | 70 - 130    | 8   | 20        |
| Diesel Range Organics (Over C10-C28) | 50.1          |                  | 998         | 856.3      |               | mg/Kg |   | 81   | 70 - 130    | 4   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 86            |                  | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 72            |                  | 70 - 130    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 880-21504/1-A

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21504

| Analyte                              | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0        | U            | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 11:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0        | U            | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 11:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     | mg/Kg |   | 03/14/22 09:30 | 03/14/22 11:00 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102          |              | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 11:00 | 1       |
| o-Terphenyl                          | 111          |              | 70 - 130 |       |   | 03/14/22 09:30 | 03/14/22 11:00 | 1       |

Lab Sample ID: LCS 880-21504/2-A

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21504

| Analyte                              | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | 1000          | 1135          |               | mg/Kg |   | 114  | 70 - 130    |  |  |
| Diesel Range Organics (Over C10-C28) | 1000          | 792.4         |               | mg/Kg |   | 79   | 70 - 130    |  |  |
| Surrogate                            | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |             |  |  |
| 1-Chlorooctane                       | 109           |               | 70 - 130      |       |   |      |             |  |  |
| o-Terphenyl                          | 110           |               | 70 - 130      |       |   |      |             |  |  |

Lab Sample ID: LCSD 880-21504/3-A

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21504

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1068        |                | mg/Kg |   | 107  | 70 - 130    | 6   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 780.5       |                | mg/Kg |   | 78   | 70 - 130    | 2   | 20        |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

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

Lab Sample ID: LCSD 880-21504/3-A

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21504

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 107       |           | 70 - 130 |
| o-Terphenyl    | 107       |           | 70 - 130 |

Lab Sample ID: 890-2063-A-12-C MS

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21504

|                                      | Sample    | Sample    | Spike    | MS     | MS        |       |   |      | %Rec     |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U F1 F2   | 998      | 844.4  |           | mg/Kg |   | 82   | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28) | <50.0     | U F1      | 998      | 849.3  |           | mg/Kg |   | 83   | 70 - 130 |  |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |
| 1-Chlorooctane                       | 94        |           | 70 - 130 |        |           |       |   |      |          |  |
| o-Terphenyl                          | 82        |           | 70 - 130 |        |           |       |   |      |          |  |

Lab Sample ID: 890-2063-A-12-D MSD

Matrix: Solid

Analysis Batch: 21462

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21504

|                                      | Sample    | Sample    | Spike    | MSD    | MSD       |       |   |      | %Rec     |     | RPD   |  |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U F1 F2   | 998      | 663.6  | F1 F2     | mg/Kg |   | 63   | 70 - 130 | 24  | 20    |  |
| Diesel Range Organics (Over C10-C28) | <50.0     | U F1      | 998      | 692.4  | F1        | mg/Kg |   | 68   | 70 - 130 | 20  | 20    |  |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |  |
| 1-Chlorooctane                       | 76        |           | 70 - 130 |        |           |       |   |      |          |     |       |  |
| o-Terphenyl                          | 68        | S1-       | 70 - 130 |        |           |       |   |      |          |     |       |  |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22022/1-A

Matrix: Solid

Analysis Batch: 22153

Client Sample ID: Method Blank

Prep Type: Soluble

|          | MB     | MB        |      |       |   |          |                |         |  |  |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|--|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |  |
| Chloride | <5.00  | U         | 5.00 | mg/Kg |   |          | 03/23/22 17:46 | 1       |  |  |

Lab Sample ID: LCS 880-22022/2-A

Matrix: Solid

Analysis Batch: 22153

Client Sample ID: Lab Control Sample

Prep Type: Soluble

|          | Spike | LCS    | LCS       |       |   |      |          |  | %Rec |  |
|----------|-------|--------|-----------|-------|---|------|----------|--|------|--|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |      |  |
| Chloride | 250   | 266.1  |           | mg/Kg |   | 106  | 90 - 110 |  |      |  |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-22022/3-A

Matrix: Solid

Analysis Batch: 22153

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         | 267.2       |                | mg/Kg |   | 107  | 90 - 110    | 0   | 20        |

Lab Sample ID: 880-12468-A-11-C MS

Matrix: Solid

Analysis Batch: 22153

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Chloride | 3390          |                  | 1250        | 4709      |              | mg/Kg |   | 106  | 90 - 110    |     |           |

Lab Sample ID: 880-12468-A-11-D MSD

Matrix: Solid

Analysis Batch: 22153

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 | 3390          |                  | 1250        | 4719       |               | mg/Kg |   | 106  | 90 - 110    | 0   | 20        |

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-238676/1-A

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|------|---|----------|----------------|---------|
| Chloride | <10.0     | U            | 10.0 | mg/L |   |          | 03/30/22 10:37 | 1       |

Lab Sample ID: LCS 410-238676/2-A

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 20.0        | 21.32      |               | mg/L |   | 107  | 90 - 110    |     |           |

Lab Sample ID: 890-2070-A-2-H MS

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Chloride | 277           |                  | 19.8        | 282.8     | 4            | mg/L |   | 27   | 90 - 110    |     |           |

Lab Sample ID: 890-2070-A-2-H MS

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| Chloride | <490          | U                | 19.8        | <496      | U 4          | mg/L |   | 15   | 90 - 110    |     |           |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2070-A-2-G DU

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Chloride | 277           |                  | 291.9     |              | mg/L |   | 5   | 15    |

Lab Sample ID: 890-2070-A-2-G DU

Matrix: Solid

Analysis Batch: 239332

Client Sample ID: Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Chloride | <490          | U                | <497      | U            | mg/L |   | 4   | 15    |

Lab Sample ID: 890-2070-A-1-H MS

Matrix: Solid

Analysis Batch: 239833

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 | 338           |                  | 20.4        | 348.5     | 4            | mg/L |   | 51   | 90 - 110    |

Lab Sample ID: 890-2070-A-1-G DU

Matrix: Solid

Analysis Batch: 239833

Client Sample ID: Duplicate

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Chloride | 338           |                  | 347.6     |              | mg/L |   | 3   | 15    |

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Prep Batch: 21729

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-21729/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 21734

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2071-1         | FS21                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-2         | FS22                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-3         | FS23                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-4         | FS24                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-5         | FS25                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-6         | FS26                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-7         | FS27                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-8         | FS28                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-9         | FS29                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-10        | FS30                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-11        | FS31                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-12        | FS32                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-13        | FS33                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-14        | FS34                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-15        | FS35                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-16        | FS36                   | Total/NA  | Solid  | 5035   |            |
| MB 880-21734/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-21734/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-21734/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2071-1 MS      | FS21                   | Total/NA  | Solid  | 5035   |            |
| 890-2071-1 MSD     | FS21                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 21936

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2071-1         | FS21                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-2         | FS22                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-3         | FS23                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-4         | FS24                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-5         | FS25                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-6         | FS26                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-7         | FS27                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-8         | FS28                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-9         | FS29                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-10        | FS30                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-11        | FS31                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-12        | FS32                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-13        | FS33                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-14        | FS34                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-15        | FS35                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-16        | FS36                   | Total/NA  | Solid  | 8021B  | 21734      |
| MB 880-21729/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21729      |
| MB 880-21734/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 21734      |
| LCS 880-21734/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 21734      |
| LCSD 880-21734/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-1 MS      | FS21                   | Total/NA  | Solid  | 8021B  | 21734      |
| 890-2071-1 MSD     | FS21                   | Total/NA  | Solid  | 8021B  | 21734      |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## GC VOA

## Analysis Batch: 22081

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2071-1    | FS21             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-2    | FS22             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-3    | FS23             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-4    | FS24             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-5    | FS25             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-6    | FS26             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-7    | FS27             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-8    | FS28             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-9    | FS29             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-10   | FS30             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-11   | FS31             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-12   | FS32             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-13   | FS33             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-14   | FS34             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-15   | FS35             | Total/NA  | Solid  | Total BTEX |            |
| 890-2071-16   | FS36             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 21456

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2071-11        | FS31                   | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2071-12        | FS32                   | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2071-13        | FS33                   | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2071-14        | FS34                   | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2071-15        | FS35                   | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2071-16        | FS36                   | Total/NA  | Solid  | 8015B NM | 21500      |
| MB 880-21500/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 21500      |
| LCS 880-21500/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21500      |
| LCSD 880-21500/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2063-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21500      |
| 890-2063-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21500      |

## Analysis Batch: 21462

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2071-1          | FS21                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-2          | FS22                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-3          | FS23                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-4          | FS24                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-5          | FS25                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-6          | FS26                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-7          | FS27                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-8          | FS28                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-9          | FS29                   | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2071-10         | FS30                   | Total/NA  | Solid  | 8015B NM | 21504      |
| MB 880-21504/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 21504      |
| LCS 880-21504/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 21504      |
| LCSD 880-21504/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2063-A-12-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 21504      |
| 890-2063-A-12-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 21504      |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## GC Semi VOA

## Prep Batch: 21500

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2071-11        | FS31                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-12        | FS32                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-13        | FS33                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-14        | FS34                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-15        | FS35                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-16        | FS36                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21500/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21500/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21500/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2063-A-1-E MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2063-A-1-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Prep Batch: 21504

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2071-1          | FS21                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-2          | FS22                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-3          | FS23                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-4          | FS24                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-5          | FS25                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-6          | FS26                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-7          | FS27                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-8          | FS28                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-9          | FS29                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2071-10         | FS30                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-21504/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-21504/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-21504/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2063-A-12-C MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2063-A-12-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 21623

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2071-1    | FS21             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-2    | FS22             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-3    | FS23             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-4    | FS24             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-5    | FS25             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-6    | FS26             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-7    | FS27             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-8    | FS28             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-9    | FS29             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-10   | FS30             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-11   | FS31             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-12   | FS32             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-13   | FS33             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-14   | FS34             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-15   | FS35             | Total/NA  | Solid  | 8015 NM |            |
| 890-2071-16   | FS36             | Total/NA  | Solid  | 8015 NM |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## HPLC/IC

## Leach Batch: 22022

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-2071-12          | FS32                   | Soluble   | Solid  | DI Leach |            |
| 890-2071-13          | FS33                   | Soluble   | Solid  | DI Leach |            |
| 890-2071-14          | FS34                   | Soluble   | Solid  | DI Leach |            |
| 890-2071-15          | FS35                   | Soluble   | Solid  | DI Leach |            |
| 890-2071-16          | FS36                   | Soluble   | Solid  | DI Leach |            |
| MB 880-22022/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-22022/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-22022/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-12468-A-11-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-12468-A-11-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 22153

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2071-12          | FS32                   | Soluble   | Solid  | 300.0  | 22022      |
| 890-2071-13          | FS33                   | Soluble   | Solid  | 300.0  | 22022      |
| 890-2071-14          | FS34                   | Soluble   | Solid  | 300.0  | 22022      |
| 890-2071-15          | FS35                   | Soluble   | Solid  | 300.0  | 22022      |
| 890-2071-16          | FS36                   | Soluble   | Solid  | 300.0  | 22022      |
| MB 880-22022/1-A     | Method Blank           | Soluble   | Solid  | 300.0  | 22022      |
| LCS 880-22022/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 22022      |
| LCSD 880-22022/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 22022      |
| 880-12468-A-11-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 22022      |
| 880-12468-A-11-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 22022      |

## Leach Batch: 238676

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|--------------------|-----------|--------|----------|------------|
| 890-2071-1         | FS21               | Soluble   | Solid  | DI Leach |            |
| 890-2071-2         | FS22               | Soluble   | Solid  | DI Leach |            |
| 890-2071-3         | FS23               | Soluble   | Solid  | DI Leach |            |
| 890-2071-4         | FS24               | Soluble   | Solid  | DI Leach |            |
| 890-2071-5         | FS25               | Soluble   | Solid  | DI Leach |            |
| 890-2071-6         | FS26               | Soluble   | Solid  | DI Leach |            |
| 890-2071-7         | FS27               | Soluble   | Solid  | DI Leach |            |
| 890-2071-8         | FS28               | Soluble   | Solid  | DI Leach |            |
| 890-2071-9         | FS29               | Soluble   | Solid  | DI Leach |            |
| 890-2071-10        | FS30               | Soluble   | Solid  | DI Leach |            |
| 890-2071-11        | FS31               | Soluble   | Solid  | DI Leach |            |
| MB 410-238676/1-A  | Method Blank       | Soluble   | Solid  | DI Leach |            |
| LCS 410-238676/2-A | Lab Control Sample | Soluble   | Solid  | DI Leach |            |
| 890-2070-A-1-H MS  | Matrix Spike       | Soluble   | Solid  | DI Leach |            |
| 890-2070-A-2-H MS  | Matrix Spike       | Soluble   | Solid  | DI Leach |            |
| 890-2070-A-1-G DU  | Duplicate          | Soluble   | Solid  | DI Leach |            |
| 890-2070-A-2-G DU  | Duplicate          | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 239332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 890-2071-1    | FS21             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-2    | FS22             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-3    | FS23             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-4    | FS24             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-5    | FS25             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## HPLC/IC (Continued)

## Analysis Batch: 239332 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 890-2071-6         | FS26               | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-7         | FS27               | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| MB 410-238676/1-A  | Method Blank       | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| LCS 410-238676/2-A | Lab Control Sample | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-H MS  | Matrix Spike       | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-H MS  | Matrix Spike       | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-G DU  | Duplicate          | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-2-G DU  | Duplicate          | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |

## Analysis Batch: 239833

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method         | Prep Batch |
|-------------------|------------------|-----------|--------|----------------|------------|
| 890-2071-8        | FS28             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-9        | FS29             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-10       | FS30             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2071-11       | FS31             | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-1-H MS | Matrix Spike     | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |
| 890-2070-A-1-G DU | Duplicate        | Soluble   | Solid  | EPA 300.0 R2.1 | 238676     |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS21

## Lab Sample ID: 890-2071-1

Date Collected: 03/09/22 09:20

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 10:45       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 17:20       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 14:48       | W5UX    | ELLE    |

## Client Sample ID: FS22

## Lab Sample ID: 890-2071-2

Date Collected: 03/09/22 09:24

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 11:06       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 17:41       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 15:04       | W5UX    | ELLE    |

## Client Sample ID: FS23

## Lab Sample ID: 890-2071-3

Date Collected: 03/09/22 09:28

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 11:27       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 18:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 15:36       | W5UX    | ELLE    |

## Client Sample ID: FS24

## Lab Sample ID: 890-2071-4

Date Collected: 03/09/22 09:34

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 11:47       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS24

## Lab Sample ID: 890-2071-4

Date Collected: 03/09/22 09:34

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 18:23       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 15:52       | W5UX    | ELLE    |

## Client Sample ID: FS25

## Lab Sample ID: 890-2071-5

Date Collected: 03/09/22 09:38

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 12:08       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 18:44       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 16:08       | W5UX    | ELLE    |

## Client Sample ID: FS26

## Lab Sample ID: 890-2071-6

Date Collected: 03/09/22 09:42

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 12:28       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 19:05       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 16:25       | W5UX    | ELLE    |

## Client Sample ID: FS27

## Lab Sample ID: 890-2071-7

Date Collected: 03/09/22 10:02

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 12:49       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21462        | 03/14/22 19:26       | AJ      | XEN MID |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Client Sample ID: FS27

## Lab Sample ID: 890-2071-7

Date Collected: 03/09/22 10:02

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab  |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|------|
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 50              | 239332       | 03/30/22 16:41       | W5UX    | ELLE |

## Client Sample ID: FS28

## Lab Sample ID: 890-2071-8

Date Collected: 03/09/22 10:10

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 13:09       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 19:47       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 10              | 239833       | 03/31/22 17:28       | W5UX    | ELLE    |

## Client Sample ID: FS29

## Lab Sample ID: 890-2071-9

Date Collected: 03/09/22 10:16

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 13:29       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 20:07       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 10              | 239833       | 03/31/22 17:12       | W5UX    | ELLE    |

## Client Sample ID: FS30

## Lab Sample ID: 890-2071-10

Date Collected: 03/09/22 10:30

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 13:50       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21504        | 03/14/22 09:30       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21462        | 03/14/22 20:28       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 10              | 239833       | 03/31/22 17:04       | W5UX    | ELLE    |

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS31

Lab Sample ID: 890-2071-11

Date Collected: 03/09/22 10:50

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035           |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B          |     | 1               | 21936        | 03/20/22 15:12       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX     |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM        |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep    |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM       |     | 1               | 21456        | 03/14/22 17:11       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach       |     |                 | 238676       | 03/29/22 10:46       | L4QM    | ELLE    |
| Soluble   | Analysis   | EPA 300.0 R2.1 |     | 10              | 239833       | 03/31/22 17:20       | W5UX    | ELLE    |

Client Sample ID: FS32

Lab Sample ID: 890-2071-12

Date Collected: 03/09/22 10:54

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 15:32       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21456        | 03/14/22 17:31       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 22022        | 03/21/22 11:19       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 22153        | 03/24/22 00:28       | SC      | XEN MID |

Client Sample ID: FS33

Lab Sample ID: 890-2071-13

Date Collected: 03/09/22 11:10

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 15:53       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21456        | 03/14/22 17:52       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 22022        | 03/21/22 11:19       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 22153        | 03/24/22 00:37       | SC      | XEN MID |

Client Sample ID: FS34

Lab Sample ID: 890-2071-14

Date Collected: 03/09/22 11:16

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 16:13       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |

Eurofins Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

Client Sample ID: FS34

Lab Sample ID: 890-2071-14

Date Collected: 03/09/22 11:16

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21456        | 03/14/22 18:12       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 22022        | 03/21/22 11:19       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 22153        | 03/24/22 00:45       | SC      | XEN MID |

Client Sample ID: FS35

Lab Sample ID: 890-2071-15

Date Collected: 03/09/22 11:20

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 16:34       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21456        | 03/14/22 18:32       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 22022        | 03/21/22 11:19       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 22153        | 03/24/22 00:54       | SC      | XEN MID |

Client Sample ID: FS36

Lab Sample ID: 890-2071-16

Date Collected: 03/09/22 11:26

Matrix: Solid

Date Received: 03/11/22 11:17

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 21734        | 03/17/22 13:12       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 21936        | 03/20/22 16:54       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1               | 22081        | 03/21/22 13:26       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1               | 21623        | 03/15/22 10:08       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 21500        | 03/14/22 09:23       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 21456        | 03/14/22 18:53       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 22022        | 03/21/22 11:19       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 22153        | 03/24/22 01:03       | SC      | XEN MID |

## Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

Eurofins Carlsbad



## Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program               | Identification Number | Expiration Date |
|-----------------------------------|-----------------------|-----------------------|-----------------|
| A2LA                              | Dept. of Defense ELAP | 1.01                  | 11-30-22        |
| A2LA                              | ISO/IEC 17025         | 0001.01               | 11-30-22        |
| Alaska                            | State                 | PA00009               | 06-30-22        |
| Alaska (UST)                      | State                 | 17-027                | 02-28-23        |
| Arizona                           | State                 | AZ0780                | 03-12-23        |
| Arkansas DEQ                      | State                 | 88-0660               | 08-10-22        |
| California                        | State                 | 2792                  | 02-02-22 *      |
| Colorado                          | State                 | PA00009               | 06-30-22        |
| Connecticut                       | State                 | PH-0746               | 06-30-23        |
| DE Haz. Subst. Cleanup Act (HSCA) | State                 | 019-006 (PA cert)     | 01-31-23        |
| Delaware (DW)                     | State                 | N/A                   | 01-31-23        |
| Florida                           | NELAP                 | E87997                | 06-30-22        |
| Georgia (DW)                      | State                 | C048                  | 01-31-22 *      |
| Hawaii                            | State                 | N/A                   | 01-31-23        |
| Illinois                          | NELAP                 | 200027                | 01-31-23        |
| Iowa                              | State                 | 361                   | 03-02-22 *      |
| Kansas                            | NELAP                 | E-10151               | 10-31-22        |
| Kentucky (DW)                     | State                 | KY90088               | 12-31-22        |
| Kentucky (UST)                    | State                 | 1.01                  | 11-30-22        |
| Kentucky (WW)                     | State                 | KY90088               | 01-01-23        |
| Louisiana                         | NELAP                 | 02055                 | 06-30-22        |
| Maine                             | State                 | 2019012               | 03-12-23        |
| Maryland                          | State                 | 100                   | 06-30-22        |
| Massachusetts                     | State                 | M-PA009               | 06-30-22        |
| Michigan                          | State                 | 9930                  | 01-31-23        |
| Minnesota                         | NELAP                 | 042-999-487           | 12-31-22        |
| Missouri                          | State                 | 450                   | 01-31-25        |
| Montana (DW)                      | State                 | 0098                  | 01-01-23        |
| Montana (UST)                     | State                 | <cert No.>            | 02-01-23        |
| Nebraska                          | State                 | NE-OS-32-17           | 01-31-23        |
| New Hampshire                     | NELAP                 | 2730                  | 01-10-23        |
| New Jersey                        | NELAP                 | PA011                 | 06-30-22        |
| New York                          | NELAP                 | 10670                 | 04-01-23        |
| North Carolina (DW)               | State                 | 42705                 | 07-31-22        |
| North Carolina (WW/SW)            | State                 | 521                   | 12-31-22        |
| North Dakota                      | State                 | R-205                 | 01-31-23        |
| Oklahoma                          | NELAP                 | R-205                 | 08-31-22        |
| Oregon                            | NELAP                 | PA200001              | 09-11-22        |
| PALA                              | Canada                | 1978                  | 09-16-24        |
| Pennsylvania                      | NELAP                 | 36-00037              | 01-31-23        |
| Rhode Island                      | State                 | LAO00338              | 12-30-22        |
| South Carolina                    | State                 | 89002                 | 01-31-23        |
| Tennessee                         | State                 | 02838                 | 01-31-22 *      |
| Texas                             | NELAP                 | T104704194-21-40      | 08-31-22        |
| Vermont                           | State                 | VT - 36037            | 10-28-22        |
| Virginia                          | NELAP                 | 460182                | 06-14-22        |
| Washington                        | State                 | C457                  | 04-12-22        |
| West Virginia (DW)                | State                 | 9906 C                | 12-31-22        |
| West Virginia DEP                 | State                 | 055                   | 04-30-22        |
| Wyoming                           | State                 | 8TMS-L                | 01-31-23        |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Carlsbad

**Accreditation/Certification Summary**

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

**Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority     | Program | Identification Number | Expiration Date |
|---------------|---------|-----------------------|-----------------|
| Wyoming (UST) | A2LA    | 1.01                  | 11-30-22        |

**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   | T104704400-21-22      | 06-30-22        |

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

| Method         | Method Description                 | Protocol | Laboratory |
|----------------|------------------------------------|----------|------------|
| 8021B          | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| Total BTEX     | Total BTEX Calculation             | TAL SOP  | XEN MID    |
| 8015 NM        | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 8015B NM       | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0          | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| EPA 300.0 R2.1 | Anions, Ion Chromatography         | EPA      | ELLE       |
| 5035           | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep    | Microextraction                    | SW846    | XEN MID    |
| DI Leach       | Deionized Water Leaching Procedure | ASTM     | ELLE       |
| DI Leach       | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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

## Sample Summary

Client: WSP USA Inc.  
Project/Site: PLU BS 101H

Job ID: 890-2071-1  
SDG: 31403236.022.0129 TASK 10.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2071-1    | FS21             | Solid  | 03/09/22 09:20 | 03/11/22 11:17 | 2     |
| 890-2071-2    | FS22             | Solid  | 03/09/22 09:24 | 03/11/22 11:17 | 2     |
| 890-2071-3    | FS23             | Solid  | 03/09/22 09:28 | 03/11/22 11:17 | 1     |
| 890-2071-4    | FS24             | Solid  | 03/09/22 09:34 | 03/11/22 11:17 | 1     |
| 890-2071-5    | FS25             | Solid  | 03/09/22 09:38 | 03/11/22 11:17 | 1     |
| 890-2071-6    | FS26             | Solid  | 03/09/22 09:42 | 03/11/22 11:17 | 1     |
| 890-2071-7    | FS27             | Solid  | 03/09/22 10:02 | 03/11/22 11:17 | 1     |
| 890-2071-8    | FS28             | Solid  | 03/09/22 10:10 | 03/11/22 11:17 | 1     |
| 890-2071-9    | FS29             | Solid  | 03/09/22 10:16 | 03/11/22 11:17 | 1     |
| 890-2071-10   | FS30             | Solid  | 03/09/22 10:30 | 03/11/22 11:17 | 1     |
| 890-2071-11   | FS31             | Solid  | 03/09/22 10:50 | 03/11/22 11:17 | 1     |
| 890-2071-12   | FS32             | Solid  | 03/09/22 10:54 | 03/11/22 11:17 | 1     |
| 890-2071-13   | FS33             | Solid  | 03/09/22 11:10 | 03/11/22 11:17 | 1     |
| 890-2071-14   | FS34             | Solid  | 03/09/22 11:16 | 03/11/22 11:17 | 1     |
| 890-2071-15   | FS35             | Solid  | 03/09/22 11:20 | 03/11/22 11:17 | 1     |
| 890-2071-16   | FS36             | Solid  | 03/09/22 11:26 | 03/11/22 11:17 | 1     |



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  
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8600 Tampa, FL (813) 889-8888  
Hobbs, NM (575) 392-7550

20-2000]

[www.xenco.com](http://www.xenco.com)

Page 1 of 2

## Chain of Custody

**Work Order No:**

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

| Work Order Comments                                                                                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Program:</b> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> TC <input type="checkbox"/> Spentund <input type="checkbox"/>       |  |
| <b>State of Project:</b>                                                                                                                                                            |  |
| <b>Reporting Level:</b> II <input type="checkbox"/> Level III <input type="checkbox"/> T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| <b>Deliverables:</b> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:                                                                                             |  |

|                 |  |                              |  |                                             |  |  |  |                  |  |  |  |                  |  |
|-----------------|--|------------------------------|--|---------------------------------------------|--|--|--|------------------|--|--|--|------------------|--|
| Project Name:   |  | PLU BS 101H                  |  | Turn Around                                 |  |  |  |                  |  |  |  |                  |  |
| Project Number: |  | 31403236.022.0129 Task 10.02 |  | Routine <input checked="" type="checkbox"/> |  |  |  |                  |  |  |  |                  |  |
| P.O. Number:    |  |                              |  | Rush: <input type="checkbox"/>              |  |  |  |                  |  |  |  |                  |  |
| Sampler's Name: |  | Mercy Fotich.                |  | Due Date: <input type="text"/>              |  |  |  |                  |  |  |  |                  |  |
|                 |  |                              |  |                                             |  |  |  | ANALYSIS REQUEST |  |  |  | Work Order Notes |  |
|                 |  |                              |  |                                             |  |  |  |                  |  |  |  | AP: 30-015-46940 |  |

| SAMPLE RECEIPT        |         | Temp Blank:    | Yes                     | No | Wet Ice: | Yes | No |
|-----------------------|---------|----------------|-------------------------|----|----------|-----|----|
| Temperature (°C):     | 5.6/5.4 | Thermometer ID |                         |    |          |     |    |
| Received Intact:      | Yes No  | INM-003        |                         |    |          |     |    |
| Cooler Custody Seals: | Yes No  | N/A            | Correction Factor: -0.2 |    |          |     |    |
| Sample Custody Seals: | Yes No  | N/A            | Total Containers:       |    |          |     |    |

Number of Containers

PA 8015)

EPA 0-8021)

le (EPA 300.0)

890-2071 Chain of Custody

AFFE:DD:2017.01965.CAP.

CAP.01

TAT starts the day received by the lab. if received by 4:30pm

[illegible]

| Circle Method(s) and Metal(s) to be analyzed                                                           | 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 II Sn U V Zn | 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>Morgan</i>                | <i>Joe Wolf</i>          | 3/12/2017 |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
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Revised Date 05/14/18 Rev. 2018



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: \_\_\_\_\_

|                  |                      |                         |                        |
|------------------|----------------------|-------------------------|------------------------|
| Project Manager: | Kalei Jennings       | Bill to: (if different) | Adrian Baker           |
| Company Name:    | WSP USA              | Company Name:           | XTO Energy             |
| Address:         | 3300 North A Street  | Address:                | 3104 E Green Street    |
| City, State ZIP: | Midland, Texas 79705 | City, State ZIP:        | Carlsbad, NM 88220     |
| Phone:           | 432 704 5178         | Email:                  | Kalei.Jennings@wsp.com |

|                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund                        |
| State of Project:                                                                                                                                                                                           |
| Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: _____                                                                                                                      |

|                 |                              |             |                                     |                                                       |
|-----------------|------------------------------|-------------|-------------------------------------|-------------------------------------------------------|
| Project Name:   | PLU BS 101H                  | Turn Around | ANALYSIS REQUEST                    | Work Order Notes                                      |
| Project Number: | 31403236.022.0129 Task 10.02 | Routine     | <input checked="" type="checkbox"/> | API: 30-015-46940<br>AFE:ID:2017.01965.CAP.<br>CAP.01 |
| P.O. Number:    |                              | Rush:       |                                     |                                                       |
| Sampler's Name: | Mercy Rotich.                | Due Date:   |                                     |                                                       |

|                       |             |                |                    |                   |     |    |
|-----------------------|-------------|----------------|--------------------|-------------------|-----|----|
| <b>SAMPLE RECEIPT</b> | Temp Blank: | Yes            | No                 | Wet Ice:          | Yes | No |
| Temperature (°C):     |             | Thermometer ID |                    |                   |     |    |
| Received Inact:       | Yes         | No             | Correction Factor: |                   |     |    |
| Cooler Custody Seals: | Yes         | No             | N/A                | Total Containers: |     |    |
| Sample Custody Seals: | Yes         | No             | N/A                |                   |     |    |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers |                   |                      |  |  |  |  |  |  |  |  |  |  | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|-------------------|----------------------|--|--|--|--|--|--|--|--|--|--|-----------------|
|                       |        |              |              |       | TPH (EPA 8015)       | BTEX (EPA 0-8021) | Chloride (EPA 300.0) |  |  |  |  |  |  |  |  |  |  |                 |
| FS31                  | S      | 03/09/22     | 10:50        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |
| FS32                  | S      | 03/09/22     | 10:54        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |
| FS33                  | S      | 03/09/22     | 11:10        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |
| FS34                  | S      | 03/09/22     | 11:16        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |
| FS35                  | S      | 03/09/22     | 11:20        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |
| FS36                  | S      | 03/09/22     | 11:26        | 1'    | X                    | X                 | X                    |  |  |  |  |  |  |  |  |  |  | Discrete        |

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 |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |



## Eurofins Midland

1211 W. Florida Ave  
Midland, TX 79701  
Phone: 432-704-5440

## Chain of Custody Record



## Environment Testing America

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                            |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------|--|------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|----------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  | Sampler: Lab PM: Kramer, Jessica           |  |                              |  | Carrier Tracking No(s):                                                                                                                     |  |                                                                                                                                      |  | COC No: 880-4085-1          |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Client Contact: Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  | Phone:                                     |  |                              |  | E-Mail: jessica.kramer@eurofinset.com                                                                                                       |  |                                                                                                                                      |  | State of Origin: New Mexico |  |                            |  | Page: Page 1 of 2                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| Company: Eurofins Lancaster Laboratories Env. LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                                            |  |                              |  | Accreditations Required (See note): NELAP - Louisiana; NELAP - Texas                                                                        |  |                                                                                                                                      |  |                             |  |                            |  | Job #: 890-2071-1                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| Address: 2425 New Holland Pike,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | Due Date Requested: 3/28/2022              |  |                              |  | <b>Analysis Requested</b>                                                                                                                   |  |                                                                                                                                      |  |                             |  |                            |  | <b>Preservation Codes:</b><br>A - HCL M - Hexane<br>B - NaOH N - None<br>C - Zn Acetate O - AsNaO2<br>D - Nitric Acid P - Na2O4S<br>E - NaHSO4 Q - Na2SO3<br>F - MeOH R - Na2S2O3<br>G - Amchlor S - H2SO4<br>H - Ascorbic Acid T - TSP Dodecahydrate<br>I - Ice U - Acetone<br>J - DI Water V - MCAA<br>K - EDTA W - pH 4-5<br>L - EDA Z - other (specify)<br><br>Other: |  |  |  |
| City: Lancaster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | TAT Requested (days):                      |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| State, Zip: PA, 17601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | PO #:                                      |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Phone: 717-656-2300(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  | WC #:                                      |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  | Project #: 890000004                       |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Project Name: PLU BS 101H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  | SSOW#:                                     |  |                              |  | <b>Field Filled Sample (Yes or No)</b><br><b>Perform MS/MSD (Yes or No)</b><br>300 QRCFM 20000 LEACH Custom Analyte List<br><i>analyzed</i> |  |                                                                                                                                      |  |                             |  |                            |  | <b>Total Number of containers</b>                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | Sample Identification - Client ID (Lab ID) |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  | Sample Time                                |  | Sample Type (C=comp, G=grab) |  | Matrix (W=water, S=solid, O=soils/sed, BT=Tissue, A=Air)                                                                                    |  |                                                                                                                                      |  |                             |  | Special Instructions/Note: |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS21 (890-2071-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:20 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS22 (890-2071-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:24 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS23 (890-2071-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:28 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS24 (890-2071-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:34 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS25 (890-2071-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:38 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS26 (890-2071-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 09:42 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS27 (890-2071-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 10:02 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS28 (890-2071-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 10:10 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| FS29 (890-2071-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | 3/9/22                                     |  | 10:16 Mountain               |  | Solid                                                                                                                                       |  | X                                                                                                                                    |  |                             |  | 1                          |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| <b>Note:</b> Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC |  |  |  |                                            |  |                              |  |                                                                                                                                             |  |                                                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                           |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Primary Deliverable Rank: 2                                                                                                          |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Special Instructions/QC Requirements:                                                                                                |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Empty Kit Relinquished by: <i>Kramer</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Date: _____ Time: _____ Method of Shipment: _____                                                                                    |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Relinquished by: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Date/Time: _____ Company: _____                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Relinquished by: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Date/Time: _____ Company: _____                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Relinquished by: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Date/Time: _____ Company: _____                                                                                                      |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Custody Seal No.: _____                                                                                                              |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                                            |  |                              |  |                                                                                                                                             |  | Cooler Temperature(s) °C and Other Remarks: <i>3/25/22 JWS EUE 0.8</i>                                                               |  |                             |  |                            |  |                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |



## Eurofins Midland

1211 W. Florida Ave  
Midland, TX 79701  
Phone: 432-704-5440

## Chain of Custody Record



## Environment Testing America

[illegible]

- 1
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- 3
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- 12
- 13
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Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing  
America

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------|----------------------------------|-------------------------------------|------------------------------------------------------------|------------------------------------------|-----------------------------------|------------------------------------------------|---------------------|-----------------------------------------|-------------------------------------|-----------------------|-----------------------------------|-----------------------------------|
| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | Sampler                             | Lab PM:                          | Carrier Tracking No(s)              | COC No:                                                    |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Client Contact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | Phone:                              | Kramer, Jessica                  |                                     | 890-864 1                                                  |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | E-Mail:                             | jessica.kramer@eurofinsnet.com   | State of Origin:                    | Page: 1 of 2                                               |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Eurofins Environment Testing South Cent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | Accreditations Required (See note): |                                  | New Mexico                          |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | Due Date Requested                  | NELAP - Louisiana, NELAP - Texas |                                     | Job #:                                                     |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| 1211 W Florida Ave,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        | 3/17/2022                           |                                  |                                     | 890-2071-1                                                 |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | TAT Requested (days)                | <b>Analysis Requested</b>        |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Midland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| State, Zip:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| TX, 79701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | PO #:                               |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| 432-704-5440(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | WO #:                               |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Project Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | Project #:                          |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| PLU BS 101H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | 89000004                            |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | SSOM#:                              |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| <b>Sample Identification - Client ID (Lab ID)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | <b>Sample Date</b>                  | <b>Sample Time</b>               | <b>Sample Type (C=Comp, G=grab)</b> | <b>Matrix (W=water, S=solid, O=other, BT=Trace, A=Air)</b> | <b>Field Filtered Sample (Yes or No)</b> | <b>Perform MS/MSD (Yes or No)</b> | <b>8015MOD_NM/8015NM_S_Prep (MOD) Full TPH</b> | <b>8015MOD_Calc</b> | <b>300_ORGFMM_28D/DI_LEACH Chloride</b> | <b>8021B/8035FP_Calc (MOD) BTEX</b> | <b>Total_BTEX_GCV</b> | <b>Total Number of containers</b> | <b>Special Instructions/Note:</b> |
| FS21 (890-2071-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 20                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS22 (890-2071-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 24                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS23 (890-2071-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 28                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS24 (890-2071-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 34                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS25 (890-2071-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 38                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS26 (890-2071-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 09 42                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS27 (890-2071-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 10 02                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS28 (890-2071-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 10 10                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| FS29 (890-2071-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3/9/22 | 10 16                               | Mountain                         |                                     | Solid                                                      | X                                        | X                                 | X                                              | X                   | X                                       | X                                   | X                     | 1                                 |                                   |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| <b>Possible Hazard Identification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| <b>Unconfirmed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Deliverable Requested I, II, III, IV, Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Primary Deliverable Rank 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Special Instructions/QC Requirements:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Empty Kit Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Method of Shipment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Relinquished by: <i>Chloe Coy 3/11/22</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Date/Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Date/Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Received by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Date/Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Custody Seals Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Custody Seal No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| A Yes A No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |
| 2/6/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                     |                                  |                                     |                                                            |                                          |                                   |                                                |                     |                                         |                                     |                       |                                   |                                   |

## Eurofins Carlsbad

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

## Chain of Custody Record



Environment Testing  
America

| <b>Client Information (Sub Contract Lab)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     | Sampler                          | Lab PM                       | Carrier Tracking No(s)                                 | COC No:                           |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
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| Client Contact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Phone:                              | Kramer, Jessica                  |                              |                                                        | 890-664 2                         |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Shipping/Receiving                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E-Mail:                             | Jessica.kramer@eurofinsnet.com   | State of Origin:             |                                                        | Page 2 of 2                       |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Accreditations Required (See note): | NELAP - Louisiana, NELAP - Texas | New Mexico                   |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Eurofins Environment Testing South Cent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Due Date Requested:                 | 3/17/2022                        |                              |                                                        | Job #:                            |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TAT Requested (days):               | 7                                |                              |                                                        | 890-2071-1                        |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Midland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| State, Zip:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| TX, 79701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PO #:                               |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| 432-704-5440(Tel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WO #:                               |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Project #:                          |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 89000004                            |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Project Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SSOM#:                              |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| PLU BS 101H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| <table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=Solid, O=Wastech, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>Analysis Requested</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>FS30 (890-2071-10)</td> <td>3/9/22</td> <td>10 30</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>8016MOD_NM/8016NM_S_Prep (MOD) Full TPH</td> <td>1</td> <td></td> </tr> <tr> <td>FS31 (890-2071-11)</td> <td>3/9/22</td> <td>10 50</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>8016MOD_Calc</td> <td>1</td> <td></td> </tr> <tr> <td>FS32 (890-2071-12)</td> <td>3/9/22</td> <td>10 54</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>300_ORGFN_28DI_LEACH Chloride</td> <td>1</td> <td></td> </tr> <tr> <td>FS33 (890-2071-13)</td> <td>3/9/22</td> <td>11 10</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>8021B/6036FP_Calc (MOD) BTEX</td> <td>1</td> <td></td> </tr> <tr> <td>FS34 (890-2071-14)</td> <td>3/9/22</td> <td>11 16</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>Total_BTEX_GCV</td> <td>1</td> <td></td> </tr> <tr> <td>FS35 (890-2071-15)</td> <td>3/9/22</td> <td>11 20</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>FS36 (890-2071-16)</td> <td>3/9/22</td> <td>11 26</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td></td> <td>1</td> <td></td> </tr> </tbody> </table> |                                     |                                  |                              |                                                        |                                   | Sample Identification - Client ID (Lab ID) | Sample Date                             | Sample Time                | Sample Type (C=Comp, G=grab) | Matrix (W=Water, S=Solid, O=Wastech, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Analysis Requested | Total Number of containers | Special Instructions/Note: | FS30 (890-2071-10) | 3/9/22 | 10 30 | Mountain | Solid | X | X | 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH | 1 |  | FS31 (890-2071-11) | 3/9/22 | 10 50 | Mountain | Solid | X | X | 8016MOD_Calc | 1 |  | FS32 (890-2071-12) | 3/9/22 | 10 54 | Mountain | Solid | X | X | 300_ORGFN_28DI_LEACH Chloride | 1 |  | FS33 (890-2071-13) | 3/9/22 | 11 10 | Mountain | Solid | X | X | 8021B/6036FP_Calc (MOD) BTEX | 1 |  | FS34 (890-2071-14) | 3/9/22 | 11 16 | Mountain | Solid | X | X | Total_BTEX_GCV | 1 |  | FS35 (890-2071-15) | 3/9/22 | 11 20 | Mountain | Solid | X | X |  | 1 |  | FS36 (890-2071-16) | 3/9/22 | 11 26 | Mountain | Solid | X | X |  | 1 |  |
| Sample Identification - Client ID (Lab ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sample Date                         | Sample Time                      | Sample Type (C=Comp, G=grab) | Matrix (W=Water, S=Solid, O=Wastech, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No)                 | Analysis Requested                      | Total Number of containers | Special Instructions/Note:   |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS30 (890-2071-10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 10 30                            | Mountain                     | Solid                                                  | X                                 | X                                          | 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS31 (890-2071-11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 10 50                            | Mountain                     | Solid                                                  | X                                 | X                                          | 8016MOD_Calc                            | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS32 (890-2071-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 10 54                            | Mountain                     | Solid                                                  | X                                 | X                                          | 300_ORGFN_28DI_LEACH Chloride           | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS33 (890-2071-13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 11 10                            | Mountain                     | Solid                                                  | X                                 | X                                          | 8021B/6036FP_Calc (MOD) BTEX            | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS34 (890-2071-14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 11 16                            | Mountain                     | Solid                                                  | X                                 | X                                          | Total_BTEX_GCV                          | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS35 (890-2071-15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 11 20                            | Mountain                     | Solid                                                  | X                                 | X                                          |                                         | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| FS36 (890-2071-16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/9/22                              | 11 26                            | Mountain                     | Solid                                                  | X                                 | X                                          |                                         | 1                          |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| <p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Cent, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Cent, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Cent, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Cent, LLC.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| <p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV, Other (specify)</p> <p>Primary Deliverable Rank 2</p> <p>Special Instructions/QC Requirements</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |
| <p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>See Page 31122</i></p> <p>Relinquished by: <i>See Page 31122</i></p> <p>Relinquished by: <i>See Page 31122</i></p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                  |                              |                                                        |                                   |                                            |                                         |                            |                              |                                                        |                                   |                            |                    |                            |                            |                    |        |       |          |       |   |   |                                         |   |  |                    |        |       |          |       |   |   |              |   |  |                    |        |       |          |       |   |   |                               |   |  |                    |        |       |          |       |   |   |                              |   |  |                    |        |       |          |       |   |   |                |   |  |                    |        |       |          |       |   |   |  |   |  |                    |        |       |          |       |   |   |  |   |  |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2071-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2071

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    |         |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2071-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2071

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 3

List Creation: 03/25/22 01:47 PM

Creator: Bryan, Debra A

| Question                                                                          | Answer | Comment                                   |
|-----------------------------------------------------------------------------------|--------|-------------------------------------------|
| The cooler's custody seal is 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 ( $\leq 6^{\circ}\text{C}$ , not frozen).        | True   |                                           |
| Cooler Temperature is recorded.                                                   | True   |                                           |
| WV: Container Temperature is acceptable ( $\leq 6^{\circ}\text{C}$ , not frozen). | N/A    |                                           |
| WV: Container Temperature is recorded.                                            | N/A    |                                           |
| COC is present.                                                                   | True   |                                           |
| COC is filled out in ink and legible.                                             | True   |                                           |
| COC is filled out with all pertinent information.                                 | True   |                                           |
| There are no discrepancies between the containers received and the COC.           | False  | Received extra samples not listed on COC. |
| 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   |                                           |
| There is sufficient vol. for all requested analyses.                              | True   |                                           |
| Is the Field Sampler's name present on COC?                                       | False  | Received project as a subcontract.        |
| Sample custody seals are intact.                                                  | N/A    |                                           |



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2071-1

SDG Number: 31403236.022.0129 TASK 10.02

Login Number: 2071

List Source: Eurofins Midland

List Number: 2

List Creation: 03/14/22 08:17 AM

Creator: Kramer, Jessica

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



## APPENDIX E

### SDS for Friction Reducer

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# SAFETY DATA SHEET

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name POLYglide Xcel-200

### Other means of identification

Product Code(s) 10497

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

#### Manufacturer Address

PfP Industries  
29738 Goynes Rd.  
Katy, TX 77493

### Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                   |            |
|-------------------|------------|
| Flammable liquids | Category 4 |
|-------------------|------------|

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### Warning

Combustible liquid

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

|                          |                              |                         |
|--------------------------|------------------------------|-------------------------|
| <b>Appearance</b> Opaque | <b>Physical state</b> Liquid | <b>Odor</b> Mineral Oil |
|--------------------------|------------------------------|-------------------------|

**Precautionary Statements - Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Information**

May be harmful in contact with skin  
Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

| Chemical name                             | CAS No     | Weight-% | Trade secret |
|-------------------------------------------|------------|----------|--------------|
| Petroleum distillates, hydrotreated light | 64742-47-8 | 40 - 70  |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                                           |                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                         | Remove to fresh air.                                                                                                                                                                                                                |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.            |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                                                                                                               |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water.                                                                                                                                                                        |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). |

**Most important symptoms and effects, both acute and delayed**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

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## 5. FIRE-FIGHTING MEASURES

|                                                       |                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                   | Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.                                                           |
| <b>Unsuitable extinguishing media</b>                 | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Specific hazards arising from the chemical</b>     | Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.        |
| <b>Explosion data</b>                                 |                                                                                                                                    |
| <b>Sensitivity to Mechanical Impact</b>               | None.                                                                                                                              |
| <b>Sensitivity to Static Discharge</b>                | None.                                                                                                                              |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Environmental precautions

|                                  |                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|

### Methods and material for containment and cleaning up

|                                        |                                                                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.                 |
| <b>Methods for cleaning up</b>         | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                                                                       |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                           |                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** Opaque  
**Color** Milky white to yellow  
**Odor** Mineral Oil  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No data available        | None known              |
| Melting point / freezing point | No data available        | None known              |
| Boiling point / boiling range  | No data available        | None known              |
| Flash point                    | >= 67 °C / 153 °F        |                         |
| Evaporation rate               | No data available        | None known              |
| Flammability (solid, gas)      | No data available        | None known              |
| Flammability Limit in Air      |                          | None known              |
| Upper flammability limit:      | No data available        |                         |
| Lower flammability limit:      | No data available        |                         |
| Vapor pressure                 | No data available        | None known              |
| Vapor density                  | No data available        | None known              |
| Relative density               | 0.97 - 1.03              |                         |
| Water solubility               | Miscible in water        |                         |
| Solubility in other solvents   | No data available        | None known              |
| Partition coefficient          | No data available        | None known              |
| Autoignition temperature       | No data available        | None known              |
| Decomposition temperature      | No data available        | None known              |
| Kinematic viscosity            | ≥150 mm <sup>2</sup> /s  |                         |
| Dynamic viscosity              | No data available        | None known              |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |

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**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | No information available |
| Liquid Density   | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | Heat, flames and sparks.                  |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific test data for the substance or mixture is not available. |

**Symptoms related to the physical, chemical and toxicological characteristics**

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

|                               |                |
|-------------------------------|----------------|
| ATEmix (oral)                 | 5,005.00 mg/kg |
| ATEmix (dermal)               | 2,002.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 5.20 mg/l      |

**Component Information**

| Chemical name                                              | Oral LD50            | Dermal LD50             | Inhalation LC50        |
|------------------------------------------------------------|----------------------|-------------------------|------------------------|
| Petroleum distillates,<br>hydrotreated light<br>64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                           |                           |
|---------------------------|---------------------------|
| Skin corrosion/irritation | No information available. |
|---------------------------|---------------------------|

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|                                   |                           |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |
| STOT - repeated exposure          | No information available. |
| Aspiration hazard                 | No information available. |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical name                                        | Algae/aquatic plants | Fish                                                                                                                                                 | Toxicity to microorganisms | Crustacea                                       |
|------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|
| Petroleum distillates, hydrotreated light 64742-47-8 | -                    | 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static<br>45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static | -                          | 4720: 96 h Den-dronereides heteropoda mg/L LC50 |

|                               |                                    |
|-------------------------------|------------------------------------|
| Persistence and degradability | No information available.          |
| Bioaccumulation               | There is no data for this product. |
| Other adverse effects         | No information available.          |

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                                     |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Do not reuse empty containers.                                                                                  |

## 14. TRANSPORT INFORMATION

|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| <u>DOT</u> | Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)) |
|------------|---------------------------------------------------------------------------|

## 15. REGULATORY INFORMATION

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Complies        |
| DSL/NDL       | Complies        |
| EINECS/ELINCS | Complies        |
| ENCS          | Does not comply |
| IECSC         | Complies        |
| KECL          | Complies        |



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PICCS Complies  
AICS Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | No  |
| Chronic Health Hazard             | No  |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**US State Regulations** This product does not contain any substances regulated by state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable



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**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                |   |              |   |                  |   |                                  |   |
|-------------|----------------|---|--------------|---|------------------|---|----------------------------------|---|
| <u>NFPA</u> | Health hazards | 2 | Flammability | 2 | Instability      | 0 | Physical and chemical properties | - |
| <u>HMIS</u> | Health hazards | 2 | Flammability | 2 | Physical hazards | 0 | Personal protection              | X |

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

The data supplied herein is for use only in connection with occupational safety and health. The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Updates to this information may be obtained by contacting (either reference contact location or website). PFP Industries MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. This information is not meant to be an all-inclusive document on worldwide hazard communication regulations. Each user of the material described herein must evaluate the conditions of use and design, many of which will be solely within the user's knowledge and control, and the appropriate protective actions, including proper notification and training of employees, necessary to prevent employee exposures, property damage or release to the environment.

**End of Safety Data Sheet**



## APPENDIX F

### NMOCD Notifications

---

**From:** [Green, Garrett J](#)  
**To:** [Aimee Cole](#); [Kalei Jennings](#); [Collins, Melanie](#)  
**Subject:** FW: XTO Site Activities for the Week of Mar 7  
**Date:** Thursday, June 23, 2022 10:49:05 AM  
**Attachments:** [image002.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

---

**From:** Morrissey, Tacoma [mailto:Tacoma.Morrissey@wsp.com]  
**Sent:** Thursday, March 3, 2022 2:45 PM  
**To:** OCD.Enviro@state.nm.us  
**Cc:** DelawareSpills /SM <DelawareSpills@exxonmobil.com>; WSP-XTO-Project-Team <WSP-XTO-Project-Team@wsp.com>  
**Subject:** XTO Site Activities for the Week of Mar 7

All,

XTO will be completing excavation and sampling activities at the following sites next week. We anticipate collecting final confirmation samples.

Monday:

- PLU 30 Big Sinks 101H / NAPP2127936884

Tuesday:

- PLU 30 Big Sinks 101H / NAPP2127936884

Wednesday:

- PLU 30 Big Sinks 101H / NAPP2127936884

Thursday:

Thank you,

**Tacoma Morrissey**  
Consultant Geologist  
Office Manager, Midland



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**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 120235

CONDITIONS

|                                                                                 |                                                               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                            |
|                                                                                 | Action Number:<br><br>120235                                  |
|                                                                                 | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                                                                       | Condition Date |
|------------|---------------------------------------------------------------------------------|----------------|
| jnobui     | Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 8/16/2022      |