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    | NAPP2116739947 |
|----------------|----------------|
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## **Release Notification**

## **Responsible Party**

| Contact Telephone 432-221-7331         |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
| Location of Release Source             |  |  |  |  |
| Latitude 32.10221 Longitude -103.78969 |  |  |  |  |
| _                                      |  |  |  |  |
| Site Type Wellpad                      |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
| Volume Recovered (bbls)                |  |  |  |  |
| Volume Recovered (Mcf)                 |  |  |  |  |
|  |  |  |  |  |
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Received by OCD: 11/23/2021/10:20515 AM State of New Mexico
Page 2 Oil Conservation Division

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|------|-------|----|----|-----|----|----|---|
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| Was this a major                   | If YES, for what reason(s) does the respon                       | nsible party consider this a major release?   |
|------------------------------------|--|---|
| release as defined by              | N/A  |   |
| 19.15.29.7(A) NMAC?                |  |   |
| Yes X No                           |  |   |
| l les 🗷 No                         |  |   |
|                                    |  |   |
|                                    |  |   |
| If YES, was immediate n            | otice given to the OCD? By whom? To what is a single of the OCD? | nom? When and by what means (phone, email, etc)?  |
| N/A                                | to the given to the GCB. By whom: 10 wi                          | tom. When and by what means (phone, email, etc).  |
| IN/A                               |  |   |
|                                    |  |   |
|                                    |  |   |
|                                    | Initial R  | esponse   |
| The responsible                    | narty must undertake the following actions immediate             | ly unless they could create a safety hazard that would result in injury   |
| The responsible                    | party must undertake the following detions immediate.            | y uniess mey could create a sujety nazara mai would result in injury  |
|                                    |  |   |
| The source of the rele             | ease has been stopped.   |   |
| The impacted area ha               | as been secured to protect human health and                      | the environment.  |
|                                    | •  |   |
| Released materials h               | ave been contained via the use of berms of c                     | likes, absorbent pads, or other containment devices.  |
| ★ All free liquids and r           | ecoverable materials have been removed an                        | d managed appropriately.  |
| If all the actions describe        | ed above have not been undertaken, explain                       | why:  |
| N/A                                | <u> </u>   | ,   |
| IN/A                               |  |   |
|                                    |  |   |
|                                    |  |   |
|                                    |  |   |
|                                    |  |   |
|                                    |  |   |
|                                    |  | emediation immediately after discovery of a release. If remediation   |
|                                    |  | efforts have been successfully completed or if the release occurred   |
| within a lined containment         | nt area (see 19.15.29.11(A)(5)(a) NMAC), p                       | blease attach all information needed for closure evaluation.  |
| I hereby certify that the info     | ormation given above is true and complete to the                 | best of my knowledge and understand that pursuant to OCD rules and  |
|                                    |  | fications and perform corrective actions for releases which may endanger  |
|                                    |  | OCD does not relieve the operator of liability should their operations have   |
|                                    |  | eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws |
| and/or regulations.                | of a C-141 report does not reneve the operator of                | responsionity for compnance with any other rederal, state, or local laws  |
|                                    | al-a   | COLIE Connibutor  |
| Printed Name: Adrian B. Signature: | akei   | Title: SSIE Coordinator   |
| ().                                | Luino Dalas  | 6/16/2021   |
| Signature:                         | bijan Daks   | Title: SSHE Coordinator  Date: 6/16/2021  Telephone: 432.236.3808   |
| email: adrian.baker@exx            | xonmobil.com   | 432.236.3808  |
| email:                             |  | Telephone:  |
|                                    |  |   |
|                                    |  |   |
| OCD Only                           |  |   |
| D                                  | Managa   | (/01/0001   |
| Received by: Ramona                | a Marcus   | Date: <u>6/21/2021</u>  |
|                                    |  |   |

| Location:          | PLU 28 Big Sinks 901H      |      |         |
|--------------------|----------------------------|------|---------|
| Spill Date:        | 6/4/2021                   |      |         |
|                    | Area 1                     |      |         |
| Approximate A      | rea = 2                    | 8.07 | cu.ft   |
|                    | VOLUME OF LEAK             |      |         |
| Total Crude Oil    | =                          | 0.00 | bbls    |
| Total Frac fluid:  | =                          | 5.00 | bbls    |
|                    | Area 2                     |      |         |
| Approximate Area = |                            | 3.00 | sq. ft. |
| Average Satura     | tion (or depth) of spill = | 0.75 | inches  |
|                    |                            |      | -       |
| Average Porosi     | ty Factor =                | 0.03 |         |
|                    | VOLUME OF LEAK             |      |         |
| Total Crude Oil    | <del>_</del>               | 0.00 | bbls    |
| Total Frac fluid   |                            |      | bbls    |
|                    |                            |      |         |
|                    | TOTAL VOLUME OF LEAK       |      |         |
| Total Crude Oil    | =                          | 0.00 | bbls    |
| Total Frac fluid = |                            | 7.00 | bbls    |
|                    | TOTAL VOLUME RECOVERED     |      |         |
| Total Crude Oil    | =                          | 0.00 | bbls    |
| Total Frac fluid   | =                          | 6.50 | bbls    |

<u>District I</u> 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

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 32318

#### **CONDITIONS**

| Operator:              | OGRID:                                    |
|------------------------|---|
| XTO ENERGY, INC        | 5380                                      |
| 6401 Holiday Hill Road | Action Number:                            |
| Midland, TX 79707      | 32318                                     |
|                        | Action Type:                              |
|                        | [C-141] Release Corrective Action (C-141) |

#### CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| rmarcus    | None      | 6/21/2021      |

|                | Page 5 of      | 83 |
|----------------|----------------|----|
| Incident ID    | NAPP2116739947 |    |
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| Application ID |                |    |

### **Site Assessment/Characterization**

| This information must be provided to the appropriate district office no later than 90 days after the release discovery date.   |                         |  |  |
|--|-------------------------|--|--|
| What is the shallowest depth to groundwater beneath the area affected by the release?  | <u>&gt;100</u> (ft bgs) |  |  |
| Did this release impact groundwater or surface water?  | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?   | ☐ Yes ⊠ 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)?   | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?   | ☐ Yes ⊠ 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?  | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?   | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?  | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within 300 feet of a wetland?   | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release overlying a subsurface mine?  | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release overlying an unstable area such as karst geology?   | ☐ Yes ⊠ No              |  |  |
| Are the lateral extents of the release within a 100-year floodplain?   | ☐ Yes ⊠ No              |  |  |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site? ☐ Yes ☒ N   |                         |  |  |
| 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.   |                         |  |  |
| <ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> </ul>                         |                         |  |  |

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

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Depth to water determination

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

Received by OCD: 11/23/2021 10:20:15 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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| Incident ID    | NAPP2116739947 |
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| District RP    |                |
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| Application ID |                |

| 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:Adrian Baker  | Title:            | Environmental Coordinator                                       |  |
| Signature:   | _ Date:           | 11/18/2021  |  |
| email:Adrain.Baker@exxonmobil.com  |                   | Telephone:(432)-263-3808  |  |
| OCD Only   |                   |   |  |
| OCD Only   |                   |   |  |
| Received by:   |                   | Date:   |  |
| addition, OCD acceptance of a C-141 report does not relieve the operator and/or regulations.  Printed Name:Adrian Baker  | of respons Title: | Environmental Coordinator  11/18/2021  Telephone:(432)-263-3808 |  |

NAPP2116739947

Incident ID District RP Facility ID Application ID

## **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.

| Classica Danast Attachment Classicate Fact of des CH  | town months included in the electron war.  |
|---|--|
| Closure Report Attachment Checklist: Each of the following it   | ems must be included in the closure report.  |
| A scaled site and sampling diagram as described in 19.15.29.1   | 1 NMAC   |
| Note that Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)                     | of the liner integrity if applicable (Note: appropriate OCD District office  |
| ☐ Laboratory analyses of final sampling (Note: appropriate ODC  | District office must be notified 2 days prior to final sampling)   |
| □ Description of remediation activities   |  |
|   |  |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of       | nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.  Title: Environmental Coordinator |
| Signature:  | Date: 11/18/2021   |
| email:Adrian.Baker@exxonmobil.com   | Telephone:432-263-3808   |
|   |  |
| OCD Only  |  |
| Received by: Chad Hensley   | Date: 12/21/2021   |
| remediate contamination that poses a threat to groundwater, surface v<br>party of compliance with any other federal, state, or local laws and/o | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.  |
| Closure Approved by:  | Date: 12/21/2021   |
| Printed Name: Chad Hensley  | Title: Environmental Specialist Advanced   |

wsp

WSP USA

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

November 17, 2021

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

RE: Closure Request
PLU 28 BS 901H
Incident Number NAPP2116739947
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Poker Lake Unit (PLU), Big Sinks (BS), 901H (Site) in Unit E, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of frac fluid at the Site. Based on field observations, site assessment activities, and soil sample analytical results, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2116739947.

#### **RELEASE BACKGROUND**

On June 4, 2021, an inlet valve on a hydraulic fracturing pump failed, causing fluid to release both into the temporary lined containment and onto the surface of the well pad. Approximately 7.00 barrels (bbls) of frac fluid were released. A hydrovac was deployed to the Site and recovered 6.5 bbls of standing fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 16, 2021. The release was assigned Incident Number NAPP2116739947.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During March 2021, WSP installed a soil boring (C-4500) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4500 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is approximately 1,390 feet east of the site and is depicted on Figure 1. The borehole



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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 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 0.8 miles 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.

#### **CLOSURE CRITERIA**

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

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

#### SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On July 14, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141, visual observations, and information provided by onsite XTO personnel. The temporary lined containment was removed at the time of the Site visit. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Further site assessment and remediation efforts were postponed due to ongoing drilling operations near the release, which resulted in activity restrictions at the Site due to safety concerns.

On October 6, 2021, once drilling operations were complete, WSP personnel returned to the Site to complete assessment activities. Three preliminary assessment soil samples (SS01 through SS01) were collected within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground surface. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated



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photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The preliminary soil sample locations were mapped utilizing a 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-gasoline range organics, TPH-diesel range organics, 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 SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional vertical delineation activities were scheduled.

#### **DELINEATION ACTIVITIES AND ANALYTICAL RESULTS**

On October 14, 2021, WSP personnel returned to the Site to oversee additional vertical delineation activities. Three potholes (PH01 through PH03) were advanced using a track-mounted backhoe to a depth of approximately 2 feet bgs at the SS01 through SS03 preliminary soil sample locations. Delineation soil samples were collected from the potholes at depths of approximately 1-foot and 2 feet bgs to confirm the absence of impacted soil. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The delineation soil sample locations were mapped using a GPS unit and are depicted on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visit and a photographic log is included in Attachment 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH03 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 the complete laboratory analytical reports are included as Attachment 4.

#### **CLOSURE REQUEST**

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the release of frac fluid. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO,



District II Page 4

TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release was vertically delineated to below the most stringent Closure Criteria.

Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and confirmed depth to groundwater greater than 100 feet bgs, no impacted soil was identified, and no excavation was required as a result of the frac fluid release. As such, XTO respectfully requests NFA for Incident Number NAPP2116739947.

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

Sincerely,

WSP USA Inc.

Kalei Jennings Associate Consultant

Kalei Jennings

Ashley L. Ager, P.G. Managing Director, Geologist

ashley L. ager

cc: Adrian Baker, XTO

**Bureau of Land Management** 

#### Attachments:

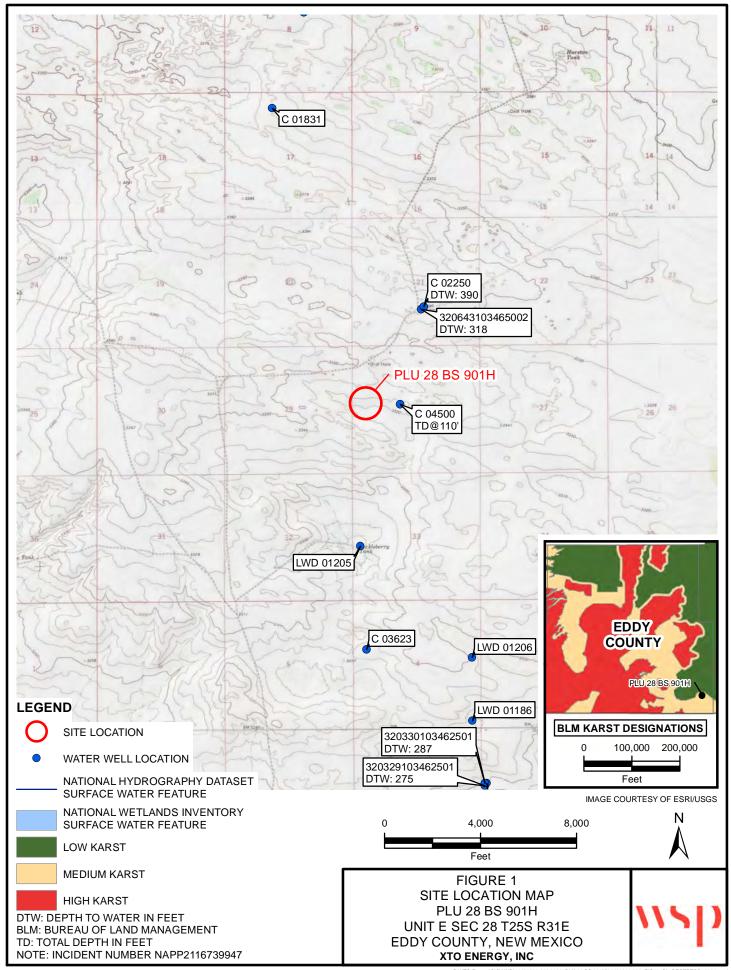
Figure 1 Site Location Map

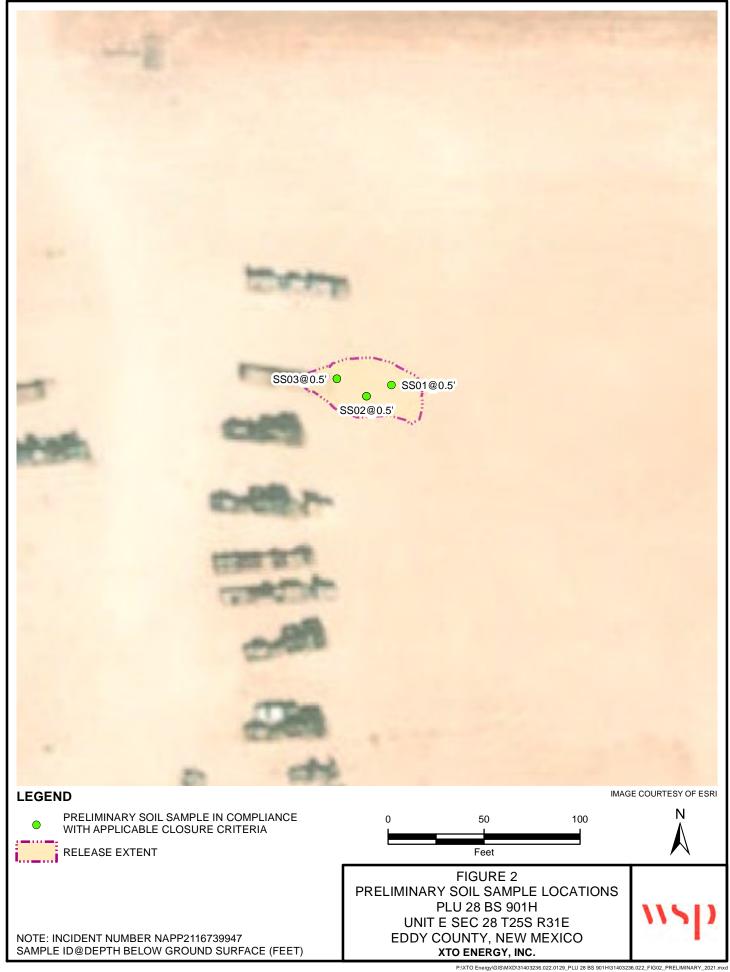
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Well Record and Log
Attachment 2 Lithologic/Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports





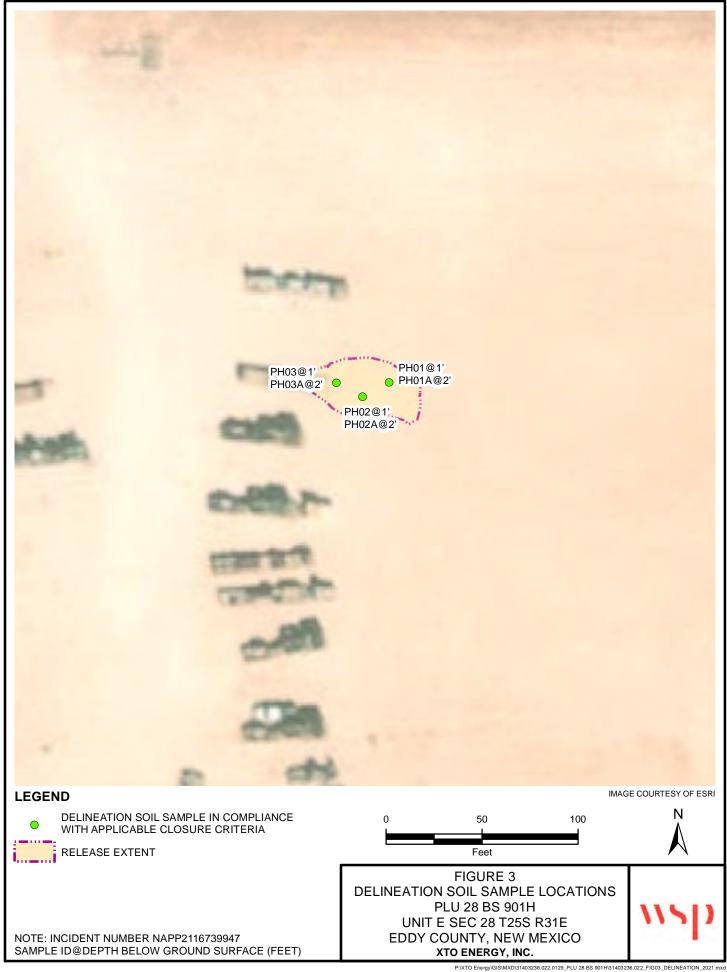


Table 1

#### Soil Analytical Results PLU 28 BS 901H Incident Number NAPP2116739947 Eddy County, New Mexico

| Sample ID            | Sample Date                                    | Sample Depth<br>(ft bgs) | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | TPH-DRO<br>(mg/kg) | TPH-GRO<br>(mg/kg) | TPH-ORO<br>(mg/kg) | Total<br>GRO+DRO<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|----------------------|--|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Clo    | NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |                          |                    | 50              | NE                 | NE                 | NE                 | 1,000                       | 2,500          | 20,000              |
| Preliminary Soil San | nples  |                          |                    |                 |                    |                    |                    |                             |                |                     |
| SS01                 | 10/06/2021                                     | 0.5                      | <0.00200           | < 0.00399       | 342                | < 50.0             | 127                | 469                         | 469            | 397                 |
| SS02                 | 10/06/2021                                     | 0.5                      | <0.00200           | < 0.00400       | 154                | <49.8              | 85.8               | 240                         | 240            | 60.1                |
| SS03                 | 10/06/2021                                     | 0.5                      | <0.00201           | < 0.00402       | <49.9              | <49.9              | <49.9              | <49.9                       | <49.9          | 22.6                |
| Delineation Soil Sam | ples   |                          |                    |                 |                    |                    |                    |                             |                |                     |
| PH01                 | 10/14/2021                                     | 1                        | < 0.00199          | < 0.00398       | <49.9              | <49.9              | <49.9              | <49.9                       | <49.9          | 113                 |
| PH01A                | 10/14/2021                                     | 2                        | < 0.00199          | < 0.00398       | <49.8              | <49.8              | <49.8              | <49.8                       | <49.8          | 24.7                |
| PH02                 | 10/14/2021                                     | 1                        | < 0.00199          | < 0.00398       | 102                | <49.9              | <49.9              | 102                         | 102            | 599                 |
| PH02A                | 10/14/2021                                     | 2                        | < 0.00200          | < 0.00399       | <49.9              | <49.9              | <49.9              | <49.9                       | <49.9          | 96.7                |
| PH03                 | 10/14/2021                                     | 1                        | < 0.00200          | < 0.00400       | <50.0              | <50.0              | <50.0              | <50.0                       | <50.0          | 127                 |
| PH03A                | 10/14/2021                                     | 2                        | < 0.00198          | < 0.00396       | <50.0              | < 50.0             | <50.0              | <50.0                       | < 50.0         | 29.3                |

#### **Notes:**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

03/10/2021

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-1860 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-1860 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grown Middle

1102 071 468 5 2021 NO.52



# PLUGGING RECORD



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

|             | NERAL / WELL OWNERSHIP:   |  |  |  |
|-------------|---|--|--|--|
| State I     | Engineer Well Number: C-4500- POD1  |  |  |  |
| Well o      | wner: XTO ENERGY (Kyle Littrell)  |  | Phone No.: 4                                     | 132.682.8873   |
| Mailin      | g address: 6401 Holiday Hill Dr.  |  |  |  |
| City:       | Midland   | State:                                       | Texas  | Zip code:  |
|             |   |  |  |  |
| <u>n. w</u> | ELL PLUGGING INFORMATION:   |  |  |  |
| 1)          | Name of well drilling company that pl   | ugged well: Jackie                           | Atkins ( Atkins Engineeri                        | ing Associates Inc.)                                 |
| 2)          | New Mexico Well Driller License No.   | : <u>1249</u>                                | Ехр  | piration Date: 04/30/23                              |
| 3)          | Well plugging activities were supervise Shane Eldridge                        | ed by the following v                        | vell driller(s)/rig superviso                    | r(s):  |
| 4)          | Date well plugging began: 04/27/20  | 21 D   | ate well plugging conclude                       | d: <u>04/27/2021</u>                                 |
| 5)          | GPS Well Location: Latitude:<br>Longitude:                                    |  |  | sec sec, WGS 84                                      |
| 6)          | Depth of well confirmed at initiation o by the following manner: weighted tag | f plugging as:1°<br>be                       | ft below ground leve                             | el (bgl),  |
| 7)          | Static water level measured at initiation                                     | n of plugging:n                              | /a ft bgl  |  |
| 8)          | Date well plugging plan of operations   | was approved by the                          | State Engineer: 12/01/20                         | 020  |
| 9)          | Were all plugging activities consistent differences between the approved plug | with an approved placed ging plan and the we | agging plan? Yes<br>Il as it was plugged (attach | If not, please describe additional pages as needed): |
|             |   |  |  |  |
|             |   |  |  |  |
|             |   |  |  |  |
|             |   |  |  |  |
|             |   |  |  |  |
|             |   |  |  | 15E 0.1 94 5 2021 NG 5.7                             |
|             |   |  |  |  |
|             |   |  |  |  |

Version: September 8, 2009

Page 1 of 2

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

#### For each interval plugged, describe within the following columns:

| Depth<br>(ft bgl) | Plugging <u>Material Used</u> (include any additives used) | Volume of<br><u>Material Placed</u><br>(gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement  Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|-------------------|--|--|--|--|---|
| 11 <del>-</del>   | 0-10'<br>Hydrated Bentonite                                | Approx.15.8 gallons                              | 16 gallons                                       | Augers                                 |   |
| -                 | 10'-110'<br>Drill Cuttings                                 | Approx. 172 gallons                              | 172 gallons                                      | Boring                                 |   |
|                   | ·  |  | ·  |  |   |
|                   |  |  |  |  |   |
| -                 |  |  |  |  |   |
| =                 |  |  |  |  |   |
| _                 |  |  |  |  |   |
| -                 |  |  |  |  |   |
|                   |  | MULTIPLY E cubic feet x 7.4 cubic vards x 201.9  | 3Y AND OBTAIN 1805 = gallons 37 = gallons        | li<br>ASE BY                           | <br>  * AF <b>5 2021 •</b> *8:00  |

#### cubic yards 201.97 gallons

#### III. SIGNATURE:

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

> Jack Atkins 05/05/2021

> > Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

# 2021-05-05\_C-4500\_Plugging Record-forsign

Final Audit Report

Created: 2021-05-05

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAK9L5xmxdw4gebAaYJQQaFC\_WD1hBxmhv

## "2021-05-05\_C-4500\_Plugging Record-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com) 2021-05-05 - 8:58:09 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-05-05 - 8:58:30 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com) 2021-05-05 - 9:30:11 PM GMT- IP address: 64.90.153.232

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

Signature Date: 2021-05-05 - 9:30:31 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
 2021-05-05 - 9:30:31 PM GMT





## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

|                           | OSE POD NO. (W                |         | .)                             |                                 | WELL TAG ID NO                    | ).           |          | OSE FILE NO                        | (S).                             |                           |   |  |  |  |  |
|---------------------------|-------------------------------|---------|--------------------------------|---------------------------------|-----------------------------------|--------------|----------|------------------------------------|----------------------------------|---------------------------|---|--|--|--|--|
| NO                        | POD1 (BH-0                    |         |                                |                                 | n/a                               |              |          | C-4500                             |                                  |                           |   |  |  |  |  |
| GENERAL AND WELL LOCATION | WELL OWNER N<br>XTO Energy (  | ٠,,     |                                |                                 |                                   | PHONE (OPT   | IONAL)   |                                    |                                  |                           |   |  |  |  |  |
| TI                        | WELL OWNER M                  | LAILING | ADDRESS                        |                                 |                                   | _            |          | CITY                               |                                  | STATE                     | ZIP   |  |  |  |  |
| WEL                       | 6401 Holiday                  | Hill D  | r.                             |                                 |                                   |              |          | Midland                            |                                  | TX 79707                  | PANY sociates, Inc.  ERED (FT)  LETED WELL (FT) |  |  |  |  |
| Ę                         | WELL                          | T       | DE                             | GREES                           | MINUTES                           | SECOND       |          |                                    |                                  |                           |   |  |  |  |  |
| K.A                       | LOCATION                      | LAT     | TITUDE                         | 32                              | 6                                 | 6.96         | N        |                                    | Y REQUIRED: ONE TEN              | TH OF A SECOND            |   |  |  |  |  |
| TER/                      | (FROM GPS)                    | LO      | NGITUDE                        | 103                             | 47                                | 6.75         | w        | * DATUM RE                         | QUIRED: WGS 84                   |                           |   |  |  |  |  |
| 1. GEN                    | DESCRIPTION R<br>SE NW Sec. 2 |         | NG WELL LOCATION TO<br>SS R31E | STREET ADD                      | RESS AND COMMO                    | N LANDMAR    | KS – PLS | S (SECTION, TO                     | OWNSHJIP, RANGE) WH              | ERE AVAILABLE             |   |  |  |  |  |
|                           | LICENSE NO.                   |         | NAME OF LICENSED               | DRILLER                         |                                   |              |          |                                    | NAME OF WELL DR                  | ILLING COMPANY            |   |  |  |  |  |
|                           | 1249                          |         | THE OF MOST WAS                |                                 | Jackie D. Atkins                  | S            |          |                                    |                                  | gineering Associates,     | Inc.  |  |  |  |  |
|                           | DRILLING STAR<br>03/24/202    |         | DRILLING ENDED 03/24/2021      |                                 | MPLETED WELL (Fary well materi    |              |          | LE DEPTH (FT)<br>110               | DEPTH WATER FIRE                 | ST ENCOUNTERED (FT<br>n/a | )   |  |  |  |  |
|                           | COMPLETED WE                  | ELL IS: | ARTESIAN                       | ✓ DRY HOI                       | E SHALL                           | OW (UNCONE   | FINED)   |                                    | STATIC WATER LEV                 | /EL IN COMPLETED W        | WELL (FT)   |  |  |  |  |
| NO.                       |                               |         |                                |                                 |                                   |              |          |                                    |                                  | ш.                        |   |  |  |  |  |
| CASING INFORMATION        | DRILLING FLUIL                | _       | AIR                            | MUD                             |                                   | VES – SPECIF |          | OTHER - SPECIFY: Hollow Stem Auger |                                  |                           |   |  |  |  |  |
| S S                       | DRILLING METH                 | IOD:    | ROTARY                         | HAMMEI                          |                                   |              | Y OTHE   | R – SPECIFY:                       | Houc                             | ow Stem Auger             |   |  |  |  |  |
| IN                        | DEPTH (fee                    | t bgl)  | BORE HOLE                      | CASING MATERIAL AND/OR GRADE C. |                                   | C            | ASING    | CASING                             | CASING WALL                      | SLOT                      |   |  |  |  |  |
| IN C                      | FROM                          | TO      | DIAM                           |                                 | each casing string                |              |          | NECTION<br>TYPE                    | INSIDE DIAM. (inches)            | THICKNESS<br>(inches)     |   |  |  |  |  |
| CAS                       | 0                             | 110     | (inches)                       |                                 | sections of screen<br>Boring- HSA | n) (         |          | ling diameter)                     | (menes)                          | (Menes)                   | (   |  |  |  |  |
|                           | U                             | 110     | 10,5                           |                                 | Dollig- HSA                       | -            | -        |                                    |                                  |                           |   |  |  |  |  |
| Š                         |                               |         | -                              |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| DRILLING &                |                               | _       |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| 2. D                      |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           | d L                           |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           |                               | _       | +                              |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
|                           | DEPTH (fee                    | t bgl)  | BORE HOLE                      |                                 | ST ANNULAR S                      |              |          |                                    | AMOUNT                           | METHO                     |   |  |  |  |  |
| ₹                         | FROM TO DIAM. (inches) GRAVE  |         |                                | VEL PACK SIZI                   | E-RANGE E                         | SY INTI      | ERVAL    | (cubic feet)                       | PLACE                            | WIEN I                    |   |  |  |  |  |
| E                         |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| MA                        |                               |         |                                |                                 |                                   |              | _        |                                    |                                  |                           |   |  |  |  |  |
| 3                         |                               |         | +                              | -                               |                                   |              |          |                                    | the part was first to the second | 415 7021 - 0,0            | ren<br>Pad  |  |  |  |  |
| 3. ANNULAR MATERIAL       |                               | _       | +                              |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| . A.                      |                               |         |                                |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| .,                        |                               |         | 71                             |                                 |                                   |              |          |                                    |                                  |                           |   |  |  |  |  |
| EUD.                      | OSE INTERNA                   | I. IISP |                                |                                 |                                   |              |          | WR_                                | 20 WELL RECORD                   | & LOG (Version 06/        | 30/17)  |  |  |  |  |
|                           | E NO.                         | LUSE    |                                |                                 | POD N                             | О.           |          | TRN                                |                                  |                           |   |  |  |  |  |
| -                         | CATION                        |         |                                |                                 |                                   |              |          | WELL TAG                           |                                  | PAGI                      | 1 OF 2  |  |  |  |  |

|                              | DEPTH (f   | eet bgl) |                     |                                     |   |                      |   |                        |          | ESTIMATED                    |
|------------------------------|--|----------|---------------------|-------------------------------------|---|----------------------|---|------------------------|----------|------------------------------|
|                              | FROM   | то       | THICKNESS<br>(feet) | TERED -<br>TURE ZONES<br>ill units) | BEAL  | TER<br>RING?<br>/NO) | YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |                        |          |                              |
|                              | 0  | 1        | 1                   | Calie                               | che, no odor, no stain, tan, li   | ght-brow             | 'n  | Y                      | √ N      |                              |
|                              | 1  | 3        | 2                   | Sand, no odor, no sta               | in, m-f, well sorted, brown, t  | race silt,           | low consolidation                             | Y                      | √N       |                              |
|                              | 3 7 4 Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive   |          |                     |                                     |   |                      |   |                        | √N       |                              |
|                              | 7  | 23       | 16                  | Caliche,tan, light bro              | wn sand, m-f grained, poorly  | sorted,              | low consolidation                             | Y                      | √N       |                              |
|                              | 23   | 110      | 87                  | sand, brown, no odo                 | r, no stain, fine grained, well   | sorted,              | low consolidation                             | Y                      | √ N      |                              |
| J.                           |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| WEL                          | 1  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| OF                           |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| OG                           |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| ICI                          |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| 100                          |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| SEO                          |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| RO                           |  |          |                     | V                                   |   |                      |   | Y                      | N        |                              |
| 4. HYDROGEOLOGIC LOG OF WELL |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
| 4                            |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     | -                                   |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              |  |          |                     |                                     |   |                      |   | Y                      | N        |                              |
|                              | METHOD U   |          |                     | OF WATER-BEARING                    | G STRATA:<br>THER – SPECIFY:  |                      |   | TAL ESTII<br>ELL YIELI |          | 0.00                         |
| Z.                           | WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD,                              |          |                     |                                     |   |                      |   |                        |          | METHOD,<br>D.                |
| TEST; RIG SUPERVISION        | MISCELLANEOUS INFORMATION: DI 11 28 BS 126H. Temporary well materials removed and the soil horing backfilled using drill cuttings from |          |                     |                                     |   |                      |   |                        | w ground |                              |
| 5. TES                       | PRINT NAM  |          | RILL RIG SUPER      | RVISOR(S) THAT PRO                  | VIDED ONSITE SUPERVI  | SION O               | F WELL CONSTR                                 | RUCTION C              | THER TH  | AN LICENSEE:                 |
| 6. SIGNATURE                 | CORRECT R  | ECORD O  | F THE ABOVE I       | DESCRIBED HOLE AN                   | EST OF HIS OR HER KNO<br>D THAT HE OR SHE WILL<br>PLETION OF WELL DRILL | L FILE               | GE AND BELIEF<br>THIS WELL REC                | , THE FORI<br>ORD WITH | EGOING I | S A TRUE AND<br>ATE ENGINEER |
| 6. SIGN                      | Jack K   | tkins    |                     | Jac                                 | ckie D. Atkins  |                      |   | 05/0                   | 5/2021   |                              |
|                              |  | SIGNAT   | URE OF DRILLE       | ER / PRINT SIGNEE                   | NAME  |                      |   |                        | DATE     |                              |
| FO                           | R OSE INTERN   | IALUSE   |                     |                                     |   |                      | WR-20 WELL                                    | RECORD &               | LOG (Ver | rsion 06/30/2017)            |
|                              | E NO.  |          |                     |                                     | POD NO.   |                      | TRN NO.                                       |                        |          |                              |
| LO                           | CATION   |          |                     |                                     |   | WELL                 | TAG ID NO.                                    |                        |          | PAGE 2 OF 2                  |

# 2021-05-05\_C-4500\_OSE\_Well Record and Log\_plu-forsign

Final Audit Report 2021-05-05

Created: 2021-05-05

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

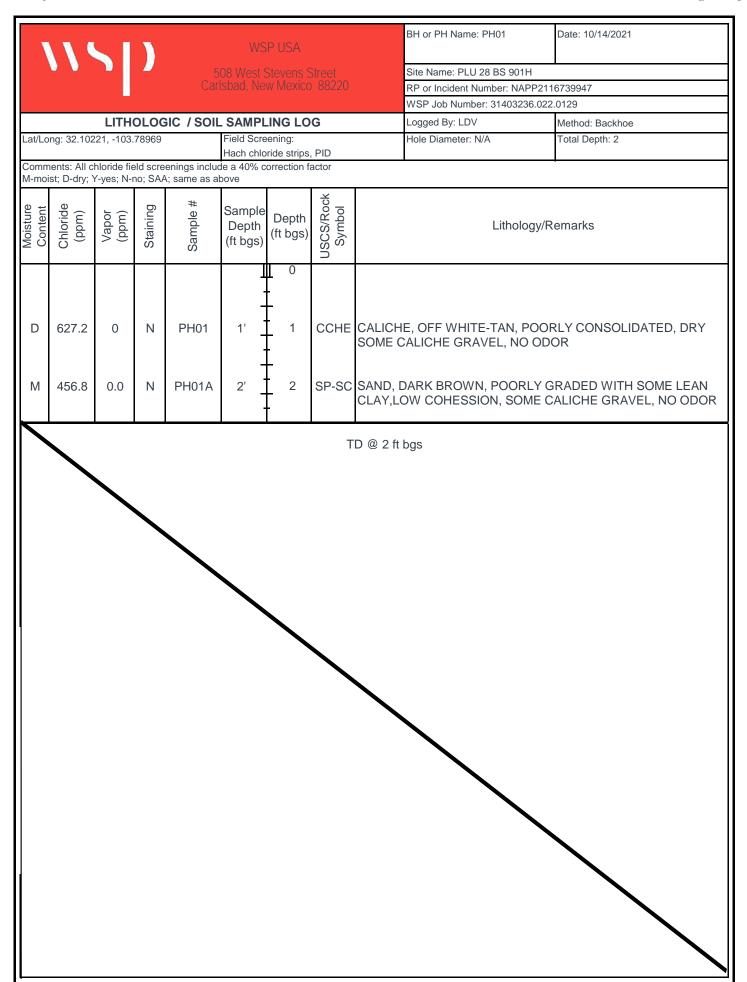
Transaction ID: CBJCHBCAABAA\_LWDwlbNSqlSjjUwKTERilqyesTFMr2Q

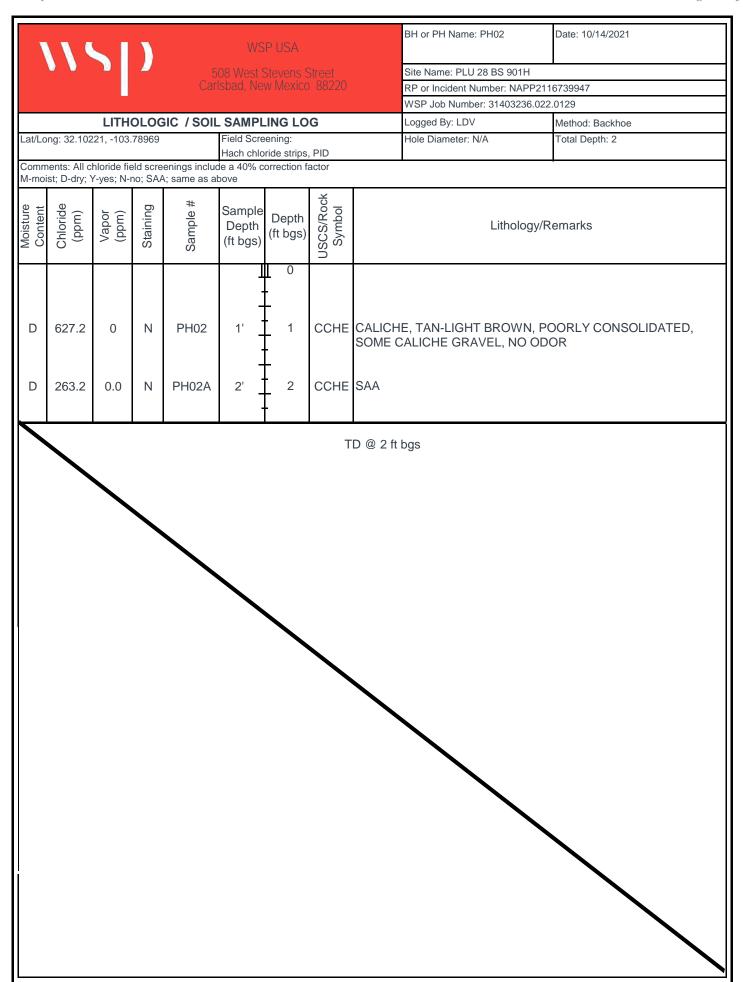
# "2021-05-05\_C-4500\_OSE\_Well Record and Log\_plu-forsign" Hi story

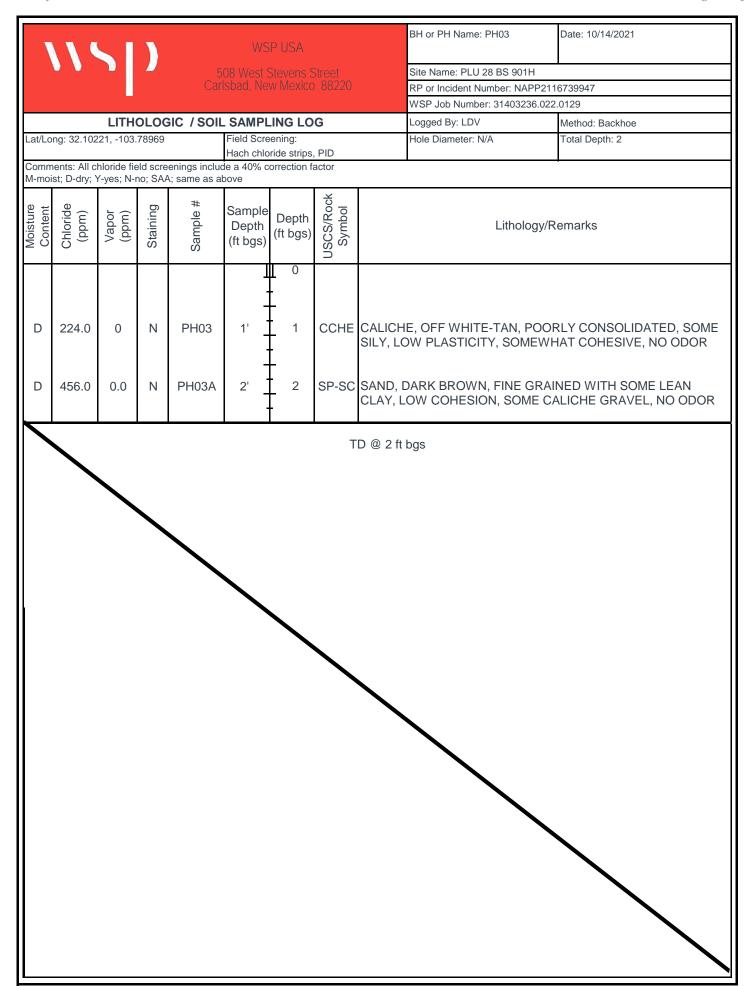
- Document created by Lucas Middleton (lucas@atkinseng.com)
  2021-05-05 8:57:19 PM GMT- IP address: 69.21.248.123
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  2021-05-05 9:29:12 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)

  Signature Date: 2021-05-05 9:29:47 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-05-05 - 9:29:47 PM GMT











|                  | PHOTOGRAPHIC LOG        |                |
|------------------|-------------------------|----------------|
| XTO Energy, INC. | PLU 28 BS 901H          | NAPP2116739947 |
|                  | Eddy County, New Mexico |                |

Photo No. Date
1 July 14, 2021
Photo taken during initial site visit of surface staining.



| Photo No.                             | Date          |  |  |  |
|---------------------------------------|---------------|--|--|--|
| 2                                     | July 14, 2021 |  |  |  |
| Photo taken during initial site visit |               |  |  |  |
| of surface staining                   |               |  |  |  |





|                  | PHOTOGRAPHIC LOG        |                |
|------------------|-------------------------|----------------|
| XTO Energy, INC. | PLU 28 BS 901H          | NAPP2116739947 |
|                  | Eddy County, New Mexico |                |

| Photo No.                              | Date             |  |  |  |
|--|------------------|--|--|--|
| 3                                      | October 14, 2021 |  |  |  |
| Photo of delineation activities taking |                  |  |  |  |
| place at pothole PH01.                 |                  |  |  |  |
|  |                  |  |  |  |
|  |                  |  |  |  |



| Photo No. | Date             |
|-----------|------------------|
| 4         | October 14, 2021 |
| D1 + + 1  | C 1 1'           |

Photo taken after delineation activities were concluded and potholes had been backfilled.



## **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1372-1

Laboratory Sample Delivery Group: 31403236.022.0129

Client Project/Site: PLU 28 BS 901H

For:

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

Attn: Kalei Jennings

J. KRAMER

Authorized for release by: 10/12/2021 3:38:17 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/21/2021 11:55:56 AM

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.

1

3

4

6

0

9

1 4

12

13

4

 Client: WSP USA Inc.
 Laboratory Job ID: 890-1372-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129

# **Table of Contents**

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### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1372-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

#### **Qualifiers**

#### **GC 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. |  |

#### **GC Semi VOA**

| Qualifier | Qualifier Description |
|-----------|-----------------------|
|-----------|-----------------------|

Indicates the analyte was analyzed for but not detected.

#### **HPLC/IC**

MCL

MDA

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)   |

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin) ML

MPN Most Probable Number Method Quantitation Limit MQL NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit** 

**PRES** Presumptive **Quality Control** QC

**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 Xenco, Carlsbad

### **Case Narrative**

Client: WSP USA Inc. Job ID: 890-1372-1 SDG: 31403236.022.0129 Project/Site: PLU 28 BS 901H

Job ID: 890-1372-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1372-1

### Receipt

The samples were received on 10/6/2021 12:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°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.

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

Eurofins Xenco, Carlsbad 10/12/2021

Lab Sample ID: 890-1372-1

 Client: WSP USA Inc.
 Job ID: 890-1372-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129

Client Sample ID: SS01

Date Collected: 10/06/21 11:32 Date Received: 10/06/21 12:54

Sample Depth: 0.5

| Analyte  | Result                                   | Qualifier                         | RL   | Unit                      | D        | Prepared   | Analyzed   | Dil Fac |
|--|--|-----------------------------------|--|---------------------------|----------|--|--|---------|
| Benzene  | <0.00200                                 | U                                 | 0.00200                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| Toluene  | <0.00200                                 | U                                 | 0.00200                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| Ethylbenzene   | <0.00200                                 | U                                 | 0.00200                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| m-Xylene & p-Xylene  | <0.00399                                 | U                                 | 0.00399                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| o-Xylene   | <0.00200                                 | U                                 | 0.00200                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| Xylenes, Total   | <0.00399                                 | U                                 | 0.00399                                      | mg/Kg                     |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| Surrogate  | %Recovery                                | Qualifier                         | Limits                                       |                           |          | Prepared   | Analyzed   | Dil Fa  |
| 4-Bromofluorobenzene (Surr)  | 126                                      |                                   | 70 - 130                                     |                           |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| 1,4-Difluorobenzene (Surr)   | 81                                       |                                   | 70 - 130                                     |                           |          | 10/11/21 08:05   | 10/11/21 14:54   |         |
| Method: Total BTEX - Total BTI   | EX Calculation                           |                                   |  |                           |          |  |  |         |
| Analyte  | Result                                   | Qualifier                         | RL   | Unit                      | D        | Prepared   | Analyzed   | Dil Fa  |
| Total BTEX   | <0.00399                                 | U                                 | 0.00399                                      | mg/Kg                     |          |  | 10/11/21 10:24   |         |
| Analyte  | Result                                   | O) (GC) Qualifier                 | RL   | Unit ma/Ka                | <u>D</u> | Prepared   | Analyzed   |         |
| Method: 8015 NM - Diesel Rang<br>Analyte<br>Total TPH  | Result 469                               | Qualifier                         | RL 50.0                                      | Unit<br>mg/Kg             | <u>D</u> | Prepared   | Analyzed 10/11/21 10:15  |         |
| Analyte<br>Fotal TPH<br>Method: 8015B NM - Diesel Rai  | Result 469 nge Organics (D               | Qualifier RO) (GC)                | 50.0   | mg/Kg                     |          | <u> </u>   | 10/11/21 10:15   |         |
| Analyte<br>Fotal TPH<br>Method: 8015B NM - Diesel Rai<br>Analyte   | Result 469 nge Organics (Di              | Qualifier  RO) (GC)  Qualifier    | 50.0   | mg/Kg                     | <u>D</u> | Prepared   | 10/11/21 10:15<br>Analyzed   | Dil Fa  |
| Analyte  Total TPH  Method: 8015B NM - Diesel Rai  Analyte  Gasoline Range Organics  | Result 469 nge Organics (D               | Qualifier  RO) (GC)  Qualifier    | 50.0   | mg/Kg                     |          | <u> </u>   | 10/11/21 10:15   | Dil Fa  |
| Analyte  Method: 8015B NM - Diesel Rai Analyte  Gasoline Range Organics GRO)-C6-C10  Diesel Range Organics (Over   | Result 469 nge Organics (Di              | Qualifier  RO) (GC)  Qualifier    | 50.0   | mg/Kg                     |          | Prepared   | 10/11/21 10:15<br>Analyzed   | Dil Fa  |
| Analyte  Fotal TPH  Method: 8015B NM - Diesel Rai  Analyte  Gasoline Range Organics  GRO)-C6-C10  Diesel Range Organics (Over C10-C28)   | Result 469 nge Organics (Di Result <50.0 | Qualifier  RO) (GC)  Qualifier    | 50.0<br>RL<br>50.0                           | mg/Kg  Unit  mg/Kg        |          | Prepared 10/09/21 13:16  | 10/11/21 10:15  Analyzed  10/11/21 14:46                                       | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over  | Result 469 nge Organics (Di Result <50.0 | Qualifier  RO) (GC)  Qualifier    | 50.0  RL  50.0  50.0                         | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16   | 10/11/21 10:15  Analyzed  10/11/21 14:46  10/11/21 14:46                       | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   469                             | Qualifier  RO) (GC)  Qualifier  U | 50.0  RL  50.0  50.0  50.0  Limits           | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16 10/09/21 13:16  Prepared                | Analyzed 10/11/21 14:46 10/11/21 14:46 10/11/21 14:46 Analyzed                 | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   469                             | Qualifier  RO) (GC)  Qualifier  U | 50.0  RL  50.0  50.0  50.0  Limits  70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16 10/09/21 13:16                          | Analyzed 10/11/21 14:46 10/11/21 14:46 10/11/21 14:46  Analyzed 10/11/21 14:46 | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate                            | Result   469                             | Qualifier  RO) (GC)  Qualifier  U | 50.0  RL  50.0  50.0  50.0  Limits           | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16 10/09/21 13:16  Prepared                | Analyzed 10/11/21 14:46 10/11/21 14:46 10/11/21 14:46 Analyzed                 | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane             | Result   469                             | Qualifier  RO) (GC) Qualifier  U  | 50.0  RL  50.0  50.0  50.0  Limits  70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16 10/09/21 13:16  Prepared 10/09/21 13:16 | Analyzed 10/11/21 14:46 10/11/21 14:46 10/11/21 14:46  Analyzed 10/11/21 14:46 | Dil Fa  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl | Result                                   | Qualifier  RO) (GC) Qualifier  U  | 50.0  RL  50.0  50.0  50.0  Limits  70 - 130 | mg/Kg  Unit  mg/Kg  mg/Kg |          | Prepared 10/09/21 13:16 10/09/21 13:16 10/09/21 13:16  Prepared 10/09/21 13:16 | Analyzed 10/11/21 14:46 10/11/21 14:46 10/11/21 14:46  Analyzed 10/11/21 14:46 | Dil Fa  |

Client Sample ID: SS02

Date Collected: 10/06/21 11:35

Lab Sample ID: 890-1372-2

Matrix: Solid

Date Collected: 10/06/21 11:35 Date Received: 10/06/21 12:54

Sample Depth: 0.5

| Analyte             | Result    | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U         | 0.00200 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| Toluene             | <0.00200  | U         | 0.00200 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| Ethylbenzene        | <0.00200  | U         | 0.00200 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U         | 0.00400 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| o-Xylene            | <0.00200  | U         | 0.00200 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| Xylenes, Total      | < 0.00400 | U         | 0.00400 | mg/Kg |   | 10/11/21 08:05 | 10/11/21 16:17 | 1       |

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10/12/2024

Lab Sample ID: 890-1372-2

Job ID: 890-1372-1

Client: WSP USA Inc. Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

**Client Sample ID: SS02** 

Date Collected: 10/06/21 11:35 Date Received: 10/06/21 12:54

Sample Depth: 0.5

| Surrogate                   | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 127                 | 70 - 130 | 10/11/21 08:05 | 10/11/21 16:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83                  | 70 - 130 | 10/11/21 08:05 | 10/11/21 16:17 | 1       |

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U         | 0.00400 | mg/Kg |   |          | 10/11/21 10:24 | 1       |

| Analyte   | Result Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|------------------|------|-------|---|----------|----------------|---------|
| Total TPH | 240              | 49.8 | mg/Kg |   | _        | 10/11/21 10:15 | 1       |

| Analyte                                 | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8  | U         | 49.8 | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:08 | 1       |
| Diesel Range Organics (Over C10-C28)    | 154    |           | 49.8 | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:08 | 1       |
| Oll Range Organics (Over C28-C36)       | 85.8   |           | 49.8 | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:08 | 1       |
|   |        |           |      |       |   |                |                |         |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 108       |           | 70 - 130 | 10/09/21 13:16 | 10/11/21 15:08 | 1       |
| o-Terphenyl    | 117       |           | 70 - 130 | 10/09/21 13:16 | 10/11/21 15:08 | 1       |

| Method: 300.0 - Anions, Ion Chromatography - Soluble | e |
|--|---|
|--|---|

| Analyte  | Result Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 60.1             | 5.00 | mg/Kg |   |          | 10/08/21 00:12 | 1       |

**Client Sample ID: SS03** 

Date Collected: 10/06/21 11:37

Date Received: 10/06/21 12:54 Sample Depth: 0.5

| Mothod: 8021R -     | Volatile    | Organic Compounds | e (GC) |
|---------------------|-------------|-------------------|--------|
| INICIIIOU. OUZ ID - | • • Olatile | Organic Combounds | 31001  |

| ult Qualifier | RL       | Unit  | D   | Prepared  | Analyzed   | Dil Fac   |
|---------------|----------|---|---|---|--|---|
| 201 U         | 0.00201  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 201 U         | 0.00201  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 201 U         | 0.00201  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 102 U         | 0.00402  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 201 U         | 0.00201  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 102 U         | 0.00402  | mg/Kg   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| ery Qualifier | Limits   |   |   | Prepared  | Analyzed   | Dil Fac   |
| 136 S1+       | 70 - 130 |   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
| 69 S1-        | 70 - 130 |   |   | 10/11/21 08:05  | 10/11/21 16:37   | 1   |
|               |          | 201 U 0.00201 201 U 0.00201 201 U 0.00201 201 U 0.00201 402 U 0.00402 201 U 0.00201 402 U 0.00402 201 U 0.00402 | 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 402 U 0.00402 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 402 U 0.00402 mg/Kg 402 U 0.00402 mg/Kg 402 U 0.00402 mg/Kg | 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00201 mg/Kg 402 U 0.00402 mg/Kg 201 U 0.00201 mg/Kg 201 U 0.00402 mg/Kg 201 U 0.00402 mg/Kg 402 U 0.00402 mg/Kg | 201 U   0.00201   mg/Kg   10/11/21 08:05     402 U   0.00402   mg/Kg   10/11/21 08:05     201 U   0.00201   mg/Kg   10/11/21 08:05     402 U   0.00402   mg/Kg   10/11/21 08:05     402 U   0.00402   mg/Kg   10/11/21 08:05     402 U   0.00402   mg/Kg   10/11/21 08:05     403   31+ | 201 U   0.00201   mg/Kg   10/11/21 08:05   10/11/21 16:37     402 U   0.00402   mg/Kg   10/11/21 08:05   10/11/21 16:37     201 U   0.00201   mg/Kg   10/11/21 08:05   10/11/21 16:37     402 U   0.00402   mg/Kg   10/11/21 08:05   10/11/21 16:37     402 U   0.00402   mg/Kg   10/11/21 08:05   10/11/21 16:37     402 U   0.00402   mg/Kg   10/11/21 08:05   10/11/21 16:37     403   404   405   405   405   405     405   405   405   405   405     406   405   405   405     407   407   407   405     408   407   407   407     409   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407   407     400   407 |

| Method: Total BTF) | ( <sub>-</sub> Total I | RTFY Ca | doulation |
|--------------------|------------------------|---------|-----------|

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 10/11/21 10:24 | 1       |

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Lab Sample ID: 890-1372-3

**Matrix: Solid** 

### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1372-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

Client Sample ID: SS03

Sample Depth: 0.5

| Client Sample ID: SS03         | Lab Sample ID: 890-1372-3 |
|--------------------------------|---------------------------|
| Date Collected: 10/06/21 11:37 | Matrix: Solid             |
| Date Received: 10/06/21 12:54  |                           |

| Analyte                                 | Result        | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Total TPH                               | <49.9         | U         | 49.9     | mg/Kg |   |                | 10/11/21 10:15 | 1       |
| Method: 8015B NM - Diesel Rang          | e Organics (D | RO) (GC)  |          |       |   |                |                |         |
| Analyte                                 | Result        | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.9         | U         | 49.9     | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:29 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.9         | U         | 49.9     | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:29 | 1       |
| OII Range Organics (Over C28-C36)       | <49.9         | U         | 49.9     | mg/Kg |   | 10/09/21 13:16 | 10/11/21 15:29 | 1       |
| Surrogate                               | %Recovery     | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 101           |           | 70 - 130 |       |   | 10/09/21 13:16 | 10/11/21 15:29 | 1       |
| o-Terphenyl                             | 107           |           | 70 - 130 |       |   | 10/09/21 13:16 | 10/11/21 15:29 | 1       |
| Method: 300.0 - Anions, Ion Chro        | matography -  | Soluble   |          |       |   |                |                |         |
| Analyte                                 | Result        | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Chloride                                | 22.6          |           | 4.99     | mg/Kg |   |                | 10/08/21 00:19 | 1       |

### **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1372-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                        |   |   | Percent Surrogate Recovery (Acceptance Limits)   |
|------------------------|---|---|--|
|                        | BFB1  | DFBZ1   |  |
| Client Sample ID       | (70-130)  | (70-130)  |  |
| Matrix Spike           | 114   | 87  |  |
| Matrix Spike Duplicate | 114   | 83  |  |
| SS01                   | 126   | 81  |  |
| SS02                   | 127   | 83  |  |
| SS03                   | 136 S1+   | 69 S1-  |  |
| Lab Control Sample     | 117   | 87  |  |
| Lab Control Sample Dup | 112   | 85  |  |
| Method Blank           | 110   | 84  |  |
| Method Blank           | 112   | 78  |  |
|                        |   |   |  |
|                        | Matrix Spike Matrix Spike Duplicate SS01 SS02 SS03 Lab Control Sample Lab Control Sample Dup Method Blank | Client Sample ID         (70-130)           Matrix Spike         114           Matrix Spike Duplicate         114           SS01         126           SS02         127           SS03         136 S1+           Lab Control Sample         117           Lab Control Sample Dup         112           Method Blank         110 | Client Sample ID         (70-130)         (70-130)           Matrix Spike         114         87           Matrix Spike Duplicate         114         83           SS01         126         81           SS02         127         83           SS03         136 S1+         69 S1-           Lab Control Sample         117         87           Lab Control Sample Dup         112         85           Method Blank         110         84 |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

|                    |                        |          |          | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
|                    |                        | 1CO1     | OTPH1    |  |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 890-1353-A-1-J MS  | Matrix Spike           | 99       | 100      |  |
| 890-1353-A-1-K MSD | Matrix Spike Duplicate | 93       | 93       |  |
| 890-1372-1         | SS01                   | 95       | 98       |  |
| 890-1372-2         | SS02                   | 108      | 117      |  |
| 890-1372-3         | SS03                   | 101      | 107      |  |
| LCS 880-9164/2-A   | Lab Control Sample     | 91       | 88       |  |
| LCSD 880-9164/3-A  | Lab Control Sample Dup | 83       | 81       |  |
| MB 880-9164/1-A    | Method Blank           | 102      | 119      |  |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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13

Job ID: 890-1372-1 Client: WSP USA Inc. Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8831/5-A

**Matrix: Solid** 

**Analysis Batch: 9112** 

| Client | Sample | ID: | Method | Blank | < |
|--------|--------|-----|--------|-------|---|
|        |        |     |        |       |   |

Prep Type: Total/NA

Prep Batch: 8831

|                     | MB       | MB        |         |       |   |                |                |         |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/04/21 13:46 | 10/11/21 00:15 | 1       |
|                     |          |           |         |       |   |                |                |         |

MB MB

MR MR

<0.00200 U

Result Qualifier

| Surrogate                   | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110                 | 70 - 130 | 10/04/21 13:46 | 10/11/21 00:15 |         |
| 1,4-Difluorobenzene (Surr)  | 84                  | 70 - 130 | 10/04/21 13:46 | 10/11/21 00:15 |         |

Lab Sample ID: MB 880-9182/5-A Client Sample ID: Method Blank

RL

0.00200

**Matrix: Solid** 

Analyte

Benzene

Toluene

o-Xylene

**Analysis Batch: 9112** 

Prep Type: Total/NA

Analyzed

10/11/21 11:08

Prepared

10/11/21 08:05

Prep Batch: 9182

Dil Fac

<0.00200 U 0.00200 mg/Kg 10/11/21 08:05 10/11/21 11:08 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/11/21 08:05 10/11/21 11:08 <0.00400 U 0.00400 m-Xylene & p-Xylene mg/Kg 10/11/21 08:05 10/11/21 11:08 <0.00200 U 0.00200 10/11/21 11:08 mg/Kg 10/11/21 08:05 10/11/21 08:05 Xylenes, Total <0.00400 U 0.00400 mg/Kg 10/11/21 11:08

Unit

mg/Kg

MB MB

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 10/11/21 08:05 | 10/11/21 11:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 78        |           | 70 - 130 | 10/11/21 08:05 | 10/11/21 11:08 | 1       |

Lab Sample ID: LCS 880-9182/1-A

**Matrix: Solid** 

**Analysis Batch: 9112** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 9182

|                     | Spike | LCS     | LCS       |       |   |      | %Rec.    |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | 0.100 | 0.09072 |           | mg/Kg |   | 91   | 70 - 130 |  |
| Toluene             | 0.100 | 0.09034 |           | mg/Kg |   | 90   | 70 - 130 |  |
| Ethylbenzene        | 0.100 | 0.09282 |           | mg/Kg |   | 93   | 70 - 130 |  |
| m-Xylene & p-Xylene | 0.200 | 0.1976  |           | mg/Kg |   | 99   | 70 - 130 |  |
| o-Xylene            | 0.100 | 0.09927 |           | mg/Kg |   | 99   | 70 - 130 |  |

LCS LCS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 117                 | 70 - 130 |
| 1.4-Difluorobenzene (Surr)  | 87                  | 70 - 130 |

Lab Sample ID: LCSD 880-9182/2-A

**Matrix: Solid** 

| Analysis Batch: 9112 |       |         |           |       |   |      | Pre      | p Batch | : 9182 |
|----------------------|-------|---------|-----------|-------|---|------|----------|---------|--------|
|                      | Spike | LCSD    | LCSD      |       |   |      | %Rec.    |         | RPD    |
| Analyte              | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD     | Limit  |
| Benzene              | 0.100 | 0.08352 |           | mg/Kg |   | 84   | 70 - 130 | 8       | 35     |

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Prep Type: Total/NA

### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1372-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

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

Lab Sample ID: LCSD 880-9182/2-A

**Matrix: Solid Analysis Batch: 9112**  Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 9182

|                     | Spike | LCSD    | LCSD      |       |   |      | %Rec.    |     | RPD   |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Toluene             | 0.100 | 0.08453 |           | mg/Kg |   | 85   | 70 - 130 | 7   | 35    |
| Ethylbenzene        | 0.100 | 0.08717 |           | mg/Kg |   | 87   | 70 - 130 | 6   | 35    |
| m-Xylene & p-Xylene | 0.200 | 0.1845  |           | mg/Kg |   | 92   | 70 - 130 | 7   | 35    |
| o-Xylene            | 0.100 | 0.09318 |           | mg/Kg |   | 93   | 70 - 130 | 6   | 35    |
|                     |       |         |           |       |   |      |          |     |       |

LCSD LCSD

| Surrogate                   | %Recovery | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 85        |           | 70 - 130 |

Lab Sample ID: 880-6934-A-2-E MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 9112** 

Prep Type: Total/NA

Prep Batch: 9182

|                     | Sample   | Sample    | Spike | MS      | MS        |       |   |      | %Rec.    |  |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene             | <0.00200 | U         | 0.100 | 0.09225 |           | mg/Kg | _ | 92   | 70 - 130 |  |
| Toluene             | <0.00200 | U         | 0.100 | 0.09375 |           | mg/Kg |   | 94   | 70 - 130 |  |
| Ethylbenzene        | <0.00200 | U         | 0.100 | 0.09649 |           | mg/Kg |   | 96   | 70 - 130 |  |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.200 | 0.2049  |           | mg/Kg |   | 102  | 70 - 130 |  |
| o-Xylene            | <0.00200 | U         | 0.100 | 0.1035  |           | mg/Kg |   | 103  | 70 - 130 |  |
|                     |          |           |       |         |           |       |   |      |          |  |

MS MS

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 114                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87                  | 70 - 130 |

Lab Sample ID: 880-6934-A-2-F MSD

**Matrix: Solid** 

**Analysis Batch: 9112** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9182

Spike MSD MSD RPD Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 0.0990 0.09120 mg/Kg 92 70 - 130 35 Toluene <0.00200 U 0.0990 0.09376 mg/Kg 95 70 - 130 0 35 Ethylbenzene <0.00200 U 0.0990 0.09765 mg/Kg 99 70 - 130 35 m-Xylene & p-Xylene <0.00399 U 0.198 0.2068 104 70 - 130 35 mg/Kg <0.00200 U 0.0990 o-Xylene 0.1052 mq/Kq 106 70 - 130 35

MSD MSD

| Surrogate                   | %Recovery | Quaimer | Limits   |
|-----------------------------|-----------|---------|----------|
| 4-Bromofluorobenzene (Surr) | 114       |         | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 83        |         | 70 - 130 |

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

Lab Sample ID: MB 880-9164/1-A

**Matrix: Solid** 

**Analysis Batch: 9176** 

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

Prep Batch: 9164

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 10/09/21 13:16 10/11/21 10:51

(GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-1372-1 SDG: 31403236.022.0129 Project/Site: PLU 28 BS 901H

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

Lab Sample ID: MB 880-9164/1-A

**Matrix: Solid** 

**Analysis Batch: 9176** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9164

| Analyte                           | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over       | <50.0  | U         | 50.0 | mg/Kg |   | 10/09/21 13:16 | 10/11/21 10:51 | 1       |
| C10-C28)                          |        |           |      |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <50.0  | U         | 50.0 | mg/Kg |   | 10/09/21 13:16 | 10/11/21 10:51 | 1       |
|                                   |        |           |      |       |   |                |                |         |

MB MB

мв мв

| Surrogate      | %Recovery | Qualifier | Limits   | Prep    | ared     | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|---------|----------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 10/09/2 | 21 13:16 | 10/11/21 10:51 | 1       |
| o-Terphenyl    | 119       |           | 70 - 130 | 10/09/2 | 21 13:16 | 10/11/21 10:51 | 1       |

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-9164/2-A Matrix: Solid Prep Type: Total/NA

**Analysis Batch: 9176** Prep Batch: 9164

|                             | Spike | LCS    | LCS       |       |   |      | %Rec.    |  |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics     | 1000  | 1167   |           | mg/Kg |   | 117  | 70 - 130 |  |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |  |
| Diesel Range Organics (Over | 1000  | 878.9  |           | mg/Kg |   | 88   | 70 - 130 |  |
| C10-C28)                    |       |        |           |       |   |      |          |  |

LCS LCS

| Surrogate      | %Recovery Qu | ualifier | Limits   |
|----------------|--------------|----------|----------|
| 1-Chlorooctane | 91           |          | 70 - 130 |
| o-Terphenyl    | 88           |          | 70 - 130 |

Lab Sample ID: LCSD 880-9164/3-A

**Matrix: Solid** 

**Analysis Batch: 9176** 

Prep Type: Total/NA

Prep Batch: 9164

|                             | Spike | LCSD   | LCSD        |       |        | %Rec.    |     | RPD   |
|-----------------------------|-------|--------|-------------|-------|--------|----------|-----|-------|
| Analyte                     | Added | Result | Qualifier l | Unit  | D %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics     | 1000  | 1075   | r           | mg/Kg | 108    | 70 - 130 | 8   | 20    |
| (GRO)-C6-C10                |       |        |             |       |        |          |     |       |
| Diesel Range Organics (Over | 1000  | 865.7  | r           | mg/Kg | 87     | 70 - 130 | 2   | 20    |
| C10-C28)                    |       |        |             |       |        |          |     |       |

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 83 70 - 130 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-1353-A-1-J MS

**Matrix: Solid** 

**Analysis Batch: 9176** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 9164

|   | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec.    |  |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte                                 | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.9  | U         | 997   | 1170   |           | mg/Kg |   | 114  | 70 - 130 |  |
| Diesel Range Organics (Over             | <49.9  | U         | 997   | 915.8  |           | mg/Kg |   | 90   | 70 - 130 |  |

C10-C28)

|                | IVIS      | IVIS      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 99        |           | 70 - 130 |
| o-Terphenyl    | 100       |           | 70 - 130 |

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10/12/2021

Lab Sample ID: 890-1353-A-1-K MSD

Job ID: 890-1372-1

Client: WSP USA Inc. Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

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

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Prep Type: Total/NA

Prep Batch: 9164

|                             | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec.    |     | RPD   |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                     | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics     | <49.9  | U         | 1000  | 1210   |           | mg/Kg |   | 117  | 70 - 130 | 3   | 20    |
| (GRO)-C6-C10                |        |           |       |        |           |       |   |      |          |     |       |
| Diesel Range Organics (Over | <49.9  | U         | 1000  | 859.0  |           | mg/Kg |   | 84   | 70 - 130 | 6   | 20    |
| C10-C28)                    |        |           |       |        |           |       |   |      |          |     |       |

Limits

**Matrix: Solid** 

**Analysis Batch: 9176** 

MSD MSD Surrogate %Recovery Qualifier

70 - 130 1-Chlorooctane 93 o-Terphenyl 93 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9072/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 9099** 

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 10/07/21 21:13

Lab Sample ID: LCS 880-9072/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 9099** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 254.7 90 - 110 mg/Kg 102

Lab Sample ID: LCSD 880-9072/3-A

**Matrix: Solid** 

**Analysis Batch: 9099** 

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 255.6 102 90 - 110 mg/Kg 0

Lab Sample ID: 880-6950-A-1-D MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 9099** 

Sample Sample Spike MS MS %Rec. Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit 90 - 110 Chloride 1240 107 1980 3305 mg/Kg

Lab Sample ID: 880-6950-A-1-E MSD

**Matrix: Solid** 

**Analysis Batch: 9099** 

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Analyte Result Result Qualifier %Rec Limits RPD Limit Unit D 1240 Chloride 1980 3308 107 90 - 110 20 mg/Kg 0

 Client: WSP USA Inc.
 Job ID: 890-1372-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129

**GC VOA** 

Prep Batch: 8831

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-8831/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

Analysis Batch: 9112

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1372-1         | SS01                   | Total/NA  | Solid  | 8021B  | 9182       |
| 890-1372-2         | SS02                   | Total/NA  | Solid  | 8021B  | 9182       |
| 890-1372-3         | SS03                   | Total/NA  | Solid  | 8021B  | 9182       |
| MB 880-8831/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 8831       |
| MB 880-9182/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 9182       |
| LCS 880-9182/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 9182       |
| LCSD 880-9182/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 9182       |
| 880-6934-A-2-E MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 9182       |
| 880-6934-A-2-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 9182       |

Analysis Batch: 9139

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1372-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-1372-2    | SS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-1372-3    | SS03             | Total/NA  | Solid  | Total BTEX |            |

Prep Batch: 9182

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batcl |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1372-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| 890-1372-2         | SS02                   | Total/NA  | Solid  | 5035   |            |
| 890-1372-3         | SS03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-9182/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-9182/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-9182/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-6934-A-2-E MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-6934-A-2-F MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

### **GC Semi VOA**

Prep Batch: 9164

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1372-1         | SS01                   | Total/NA  | Solid  | 8015NM Prep | <u> </u>   |
| 890-1372-2         | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1372-3         | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-9164/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-9164/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-9164/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1353-A-1-J MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1353-A-1-K MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

**Analysis Batch: 9176** 

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 890-1372-1       | SS01               | Total/NA  | Solid  | 8015B NM | 9164       |
| 890-1372-2       | SS02               | Total/NA  | Solid  | 8015B NM | 9164       |
| 890-1372-3       | SS03               | Total/NA  | Solid  | 8015B NM | 9164       |
| MB 880-9164/1-A  | Method Blank       | Total/NA  | Solid  | 8015B NM | 9164       |
| LCS 880-9164/2-A | Lab Control Sample | Total/NA  | Solid  | 8015B NM | 9164       |

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Client: WSP USA Inc. Job ID: 890-1372-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129

### GC Semi VOA (Continued)

### **Analysis Batch: 9176 (Continued)**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-9164/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 9164       |
| 890-1353-A-1-J MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 9164       |
| 890-1353-A-1-K MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 9164       |

### **Analysis Batch: 9189**

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1372-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-1372-2    | SS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-1372-3    | SS03             | Total/NA  | Solid  | 8015 NM |            |

### HPLC/IC

### Leach Batch: 9072

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1372-1         | SS01                   | Soluble   | Solid  | DI Leach | _          |
| 890-1372-2         | SS02                   | Soluble   | Solid  | DI Leach |            |
| 890-1372-3         | SS03                   | Soluble   | Solid  | DI Leach |            |
| MB 880-9072/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-9072/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-9072/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-6950-A-1-D MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-6950-A-1-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

### **Analysis Batch: 9099**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1372-1         | SS01                   | Soluble   | Solid  | 300.0  | 9072       |
| 890-1372-2         | SS02                   | Soluble   | Solid  | 300.0  | 9072       |
| 890-1372-3         | SS03                   | Soluble   | Solid  | 300.0  | 9072       |
| MB 880-9072/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 9072       |
| LCS 880-9072/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 9072       |
| LCSD 880-9072/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 9072       |
| 880-6950-A-1-D MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 9072       |
| 880-6950-A-1-E MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 9072       |

Job ID: 890-1372-1 SDG: 31403236.022.0129

Project/Site: PLU 28 BS 901H **Client Sample ID: SS01** 

Client: WSP USA Inc.

Lab Sample ID: 890-1372-1

Matrix: Solid

Date Collected: 10/06/21 11:32 Date Received: 10/06/21 12:54

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 9182   | 10/11/21 08:05 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 9112   | 10/11/21 14:54 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 9139   | 10/11/21 10:24 | KL      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 9189   | 10/11/21 10:15 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 9164   | 10/09/21 13:16 | DM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 9176   | 10/11/21 14:46 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9072   | 10/07/21 15:04 | CH      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 9099   | 10/08/21 00:05 | CH      | XEN MID |

**Client Sample ID: SS02** Lab Sample ID: 890-1372-2

Date Collected: 10/06/21 11:35 Matrix: Solid

Date Received: 10/06/21 12:54

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 9182   | 10/11/21 08:05 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 9112   | 10/11/21 16:17 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 9139   | 10/11/21 10:24 | KL      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 9189   | 10/11/21 10:15 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 9164   | 10/09/21 13:16 | DM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 9176   | 10/11/21 15:08 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9072   | 10/07/21 15:04 | СН      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 9099   | 10/08/21 00:12 | CH      | XEN MID |

**Client Sample ID: SS03** Lab Sample ID: 890-1372-3 Date Collected: 10/06/21 11:37 **Matrix: Solid** 

Date Received: 10/06/21 12:54

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 9182   | 10/11/21 08:05 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 9112   | 10/11/21 16:37 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 9139   | 10/11/21 10:24 | KL      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 9189   | 10/11/21 10:15 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 9164   | 10/09/21 13:16 | DM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 9176   | 10/11/21 15:29 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9072   | 10/07/21 15:04 | CH      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 9099   | 10/08/21 00:19 | CH      | XEN MID |

**Laboratory References:** 

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

### **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1372-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129

### **Laboratory: Eurofins Xenco, Midland**

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

| uthority                                  |                                  | ogram                            | Identification Number                       | Expiration Date           |  |
|---|----------------------------------|----------------------------------|---|---------------------------|--|
| Texas                                     | NELAP T104704400-21-22           |                                  | T104704400-21-22                            | 06-30-22                  |  |
| The following analytes                    | are included in this report, but | it the laboratory is not certifi | ed by the governing authority. This list ma | y include analytes for w  |  |
| the agency does not of                    | fer certification.               | ,                                | , g,  | ly molade analytes for th |  |
| the agency does not of<br>Analysis Method | fer certification.  Prep Method  | Matrix                           | Analyte                                     | y moduce analytee for the |  |
| 9 ,                                       |                                  | •                                | , , ,                                       |                           |  |

### **Method Summary**

Client: WSP USA Inc.

Project/Site: PLU 28 BS 901H

Job ID: 890-1372-1

SDG: 31403236.022.0129

| 1-1                   |  |
|-----------------------|--|
| Laboratory<br>XEN MID |  |
| XEN MID               |  |

| 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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### **Sample Summary**

Client: WSP USA Inc.

Project/Site: PLU 28 BS 901H

Job ID: 890-1372-1

SDG: 31403236.022.0129

| 3 |
|---|
|   |

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | D   |
|---------------|------------------|--------|----------------|----------------|-----|
| 890-1372-1    | SS01             | Solid  | 10/06/21 11:32 | 10/06/21 12:54 | 0.5 |
| 890-1372-2    | SS02             | Solid  | 10/06/21 11:35 | 10/06/21 12:54 | 0.5 |
| 890-1372-3    | SS03             | Solid  | 10/06/21 11:37 | 10/06/21 12:54 | 0.5 |

### Project Manager: Kalei Jennings

City, State ZIP:

Midland, Texas 79705

City, State ZIP:

Carlsbad, NM 88220 3104 E Green Strret

Reporting:Level II | Devel III

□ST/UST

RP

□vel IV

State of Project:

Program: UST/PST □PRP □Brownfields □RC

\_uperfund

**Work Order Comments** 

Company Name: Bill to: (if different)

X O

Address:

3300 North A Street Bldg 1, Unit 222

Company Name:

WSP USA

## Chain of Custody

Work Order No:

|                            | Cliall of Charony  |
|----------------------------|--|
| Houston, TX (281) 240-4200 | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 |
| Midland,TX (432-704-5440)  | 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)

Adrian Baker

| Beviced Date 051418 Rev 2018 1                                |                     |   |                    |                              |               | 0                                |                             |            | -                      |  |                                   |                                    |                                  |                       | G  |
|---|---------------------|---|--------------------|------------------------------|---------------|----------------------------------|-----------------------------|------------|------------------------|--|-----------------------------------|------------------------------------|----------------------------------|-----------------------|--|
|   |                     |   |                    |                              |               | 4                                |                             |            |                        |  | 1                                 |                                    |                                  |                       | 3 / "  |
|   |                     |   |                    |                              |               | 542                              | 1254                        | 10-6-21    | 10-                    |  |                                   | w) si                              | $\bigcup \mathcal{L}$            | nev                   | moda.  |
| Date/Time   | : (Signature)       | Received by: (Signature)  | ıre)               | Relinquished by: (Signature) | elinquished   | Re                               | Date/Time                   | Date       |                        | ure)   | Received by: (Signature           | Received                           |                                  | (Signature)           | Relinquished by: (Signature)   |
|   |                     | e due to circumstances beyond the control<br>forced unless previously negotiated. | ircumstances b     | ill be enforced u            | hese terms wi | rred by the cl<br>ot analyzed. T | penses incu<br>enco, but no | ses or exp | r any los:<br>ple subm | sponsibility to<br>5 for each sam                    | assume any re<br>d a charge of \$ | s and shall not<br>ach project and | ost of sample<br>be applied to e | iable only for the or | 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 coordinate of the coordin |
|   |                     | It assigns standard terms and conditions  | standard term      |                              | and subcontra | , its affiliates (               | ny to Xenco                 | nt compar  | гот сінг               | urchase order  | tutes a valid p                   | samplee consti                     | quishment of                     | ocument and relin     | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors.   |
| 1/7470 /7471 : Hg   | 1631 / 245.1 / 7470 | TI U  | Ş                  | b Mn Mo Ni Se                | Co Cu Pb Mn   | Cd Cr                            | As Ba Be                    | фS         | BRCRA                  | TCLP / SPLP 6010: 8RCRA                              | TCLP / SP                         |                                    | s) to be ana                     | s) and Metal(s        | Circle Method(s) and Metal(s) to be analyzed   |
| Sn U V Zn   | Sr TI               | Mn Mo Ni K Se Ag SiO2 Na  | Pb Mg Mn M         | Cu Fe                        | Ca Cr Co      | Be B Cd                          | As Ba E                     | Al Sb /    |                        | 13PPM Texas 11                                       | 8RCRA 13F                         | 9F                                 | 6020:                            | )10 200.8 / 6020:     | Total 200.7 / 6010   |
|   |                     |   |                    |                              |               |                                  |                             |            |                        |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              | -             |                                  |                             |            | -                      |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              |               |                                  |                             |            |                        |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              |               |                                  |                             |            |                        |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              |               |                                  |                             |            |                        |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              |               |                                  |                             |            |                        |  |                                   |                                    |                                  |                       |  |
|   |                     |   |                    |                              |               |                                  |                             | 1          | -                      |  | i .                               |                                    |                                  |                       |  |
| Discrete  |                     |   |                    |                              |               | ×                                | ×                           | ×          | 1                      | 0.5  | 11:37                             | 10/6/2021                          | S                                | ω                     | SS03   |
| Discrete  |                     |   |                    |                              |               | ×                                | ×                           | ×          | 1                      | 0.5'   | 11:35                             | 10/6/2021                          | S                                | 2                     | SS02   |
| Discrete  |                     |   |                    |                              |               | ×                                | ×                           | ×          | _                      | 0.5'   | 11:32                             | 10/6/2021                          | S                                | _                     | SS01   |
| Sample Comments   | Sar                 |   |                    |                              |               | Chlorid                          | втех (                      | TPH (E     | Numb                   | Depth  | Time<br>Sampled                   | Date<br>Sampled                    | Matrix                           | tification            | Sample Identification  |
| TAT starts the day recevied by the lab, if received by 4:30pm | TAT star            |   |                    |                              |               | e (EPA                           |                             | PA 801     | er of C                | 10.  | Total Containers:                 | Total                              | No Alla                          | Yes                   | Sample Custody Seals:  |
|   |                     |   | 2 Chain of Custody | 890-1372 Chai                | 88            | 300.                             |                             | 5)         | onta                   |  | 100-WO                            |                                    | _                                | , Ye                  | Received Intact:   |
|   | Will.               |   |                    |                              | =             | 0)                               | _                           |            | iner                   | ē  | Thermometer ID                    |                                    | 12.8                             | 0.0                   | Temperature (°C):  |
|   |                     |   |                    |                              |               |                                  |                             |            | L                      | Yes No   | Wet Ice:                          | (Yes)No                            | Temp Blank:                      |                       | SAMPLE RECEIPT   |
| NAPP2116739947  | NAPP21              |   |                    |                              | =             |                                  |                             |            | _                      | Due Date:  | Due                               |                                    | er e                             | Payton Benner         | Sampler's Name:  |
| API: 30-015-47807   | API: 30-            |   |                    |                              |               |                                  |                             |            |                        | Rush: 3 day  | Rush                              |                                    |                                  |                       | P.O. Number:   |
| CC:1667221001   | CC:1667             |   |                    |                              |               |                                  |                             |            |                        | ine  | Routine                           | .0129                              | 31403236.022.0129                | 314                   | Project Number:  |
| Work Order Notes  | Wo                  |   | TST                | SIS REQUEST                  | ANALYSIS      |                                  |                             |            |                        | Turn Around  | Τ.                                |                                    | 01H                              | PLU 28 BS 901H        | Project Name:  |
|   |                     |   | Conversion         |                              | wsp.com       | n.benner@                        | n, paytor                   | wsp.cor    | ngs@v                  | Email: kalei.jennings@wsp.com, payton.benner@wsp.com | Email                             |                                    | "                                | 817-683-2503          | Phone:   |
| Other:  | ADAPT               | ?<br>55<br>   | Deliverables: EDD  |                              |               |                                  | ,                           |            | )                      |  |                                   |                                    |                                  |                       |  |

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**Eurofins Xenco, Carlsbad** 

# **Chain of Custody Record**

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💸 eurofins

| 1089 N Canal St.<br>Carlsbad NM 88220   | •   | Chain of Custody Record                                | f Cust   | ody R   | eco   | ă                       |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        | _        |   | ্ব eurofins  |  |
|---|---|--|--|---|---|-------------------------|-----------------------|---------|----------|--------------------|---------------------|------------------|--------------------------------|--------------------|---------------|--------|----------------|--------|----------|---|--|--|
| Phone 575-988-3199 Fax 575-988-3199   |   |  |  | ,   |   |                         |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        |          |   |  | Ainerica   |
| Client Information (Sub Contract Lab)   | Sampier   |  |  | Lab PM<br>Kramer,   | ıer, Je   | Jessica                 |                       |         |          |                    |                     |                  | Carrier Tracking No(s):        | r⊺rac              | king          | \o(s): |                |        |          | <b>8</b> 88   | COC No.<br>890-451 1   |  |
| ı   | Phone:  |  |  | E-Mail<br>jessic  | E-Mail<br>jessica kramer@eurofinset com                 | ner@                    | eurc                  | finse   | č        | •                  | ľ                   |                  | State of Origin:<br>New Mexico | Mex.               | <u>8</u> 3    |        |                |        |          | Page:   | Page 1 of 1  |  |
| Company:<br>Eurofins Xenco  |   |  |  |   | Accreditations Required (See not NELAP - Louisiana NELA | reditations             | Required<br>Ouisiana  | ired (  | (See no  | P §                | te)·<br>\P - Texas  | L                |                                |                    | ĺ             |        |                |        |          | 89 b  | Job #:<br>890-1372-1   |  |
| Address<br>1211 W Florida Ave,  | Due Date Requested 10/11/2021   | ď  |  | l   |   |                         |                       | 1       | ≥        | Analysis Requested | sis                 | Req              | ues                            | ed                 |               |        |                |        |          | ্ব  | ion Co   | des  |
| City:<br>Midland  | TAT Requested (days):   | ıys) <sup>,</sup>                                      |  |   |   |                         |                       |         |          |                    |                     |                  |                                |                    | [             |        |                |        | 3        | ) @ >   |  | M Hexane<br>N-None                                   |
| State Zip<br>TX, 79701  |   |  |  |   |   | TPH                     |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        | cin Ma   | m o c   | A Ci d   | P Na2O4S<br>Q Na2SO3                                 |
| Phone:<br>432-704-5440(Tel)   | PO#   |  |  |   |   | ) Full                  |                       | е       |          |                    |                     |                  |                                |                    |               |        |                |        | y        | co π  | MeOH<br>Amchlor  | R Na2S2O3<br>S H2SO4                                 |
| Email   | WO #:   |  |  |   | 500005007FV   | P (MOI                  |                       | Chlorid | EX       |                    |                     |                  |                                |                    |               |        |                |        | j.       |   | J DI Water   | U Acetone V MCAA                                     |
| Project Name: PLU 28 BS 901H  | Project #:<br>89000004  |  |  |   | March 194   | S_Pre                   |                       | ACH     | D) B1    |                    |                     |                  |                                |                    |               |        |                |        | ainen    | ᄃᅎ  | K-EDTA<br>L EDA  | W - pH 4-5<br>Z other (specify)                      |
| Site:   | SSOW#   |  |  |   | massianinja.  | I ENM                   |                       | /DI_LI  | ılc (M   |                    |                     |                  |                                |                    |               |        |                |        | con      | ş   | Other:   |  |
|   |   |  | Sample   |   |   | _NM/801                 | _Calc                 | FM_28D  | 35FP_Ca  | X_GCV              |                     |                  |                                |                    |               |        |                |        | mber of  |   |  |  |
| Sample Identification - Client ID (Lab ID)  | Sample Date   | Sample<br>Time   | Type<br>(C=comp,<br>G=grab) B                      | (W=water<br>S=solid,<br>O=waste/oil,<br>BT=Tissue, A=Air) | Field Fill<br>Perform                                   | 8015MOD                 | 8015MOD               | 300_ORG | 8021B/50 | Total_BTI          |                     |                  |                                |                    |               |        | **             |        | Total Nu |   | Special In   | Special Instructions/Note:                           |
|   | V   | $\mathbb{X}$   | 0.00   | on Code:  | $\stackrel{\times}{	imes}$                              | dans                    | Lucasia.              | 4       |          | A                  |                     |                  |                                |                    |               |        |                |        | X        |   |  |  |
| SS01 (890-1372-1)   | 10/6/21   | 11 32<br>Mountain                                      |  | Solid   |   | ×                       | ×                     | ×       | ×        | ×                  |                     |                  |                                |                    |               |        |                |        | -06°     | veryvi  | ,  |  |
| SS02 (890-1372-2)   | 10/6/21   | 11 35<br>Mountain                                      |  | Solid   |   | ×                       | ×                     | ×       | ×        | ×                  |                     |                  |                                |                    |               |        |                |        | (هـ      | 200250000   |  |  |
| SS03 (890-1372-3)   | 10/6/21   | 11 37<br>Mountain                                      |  | Solid   |   | ×                       | ×                     | ×       | ×        | ×                  |                     |                  |                                |                    |               |        |                |        | 4        |   | ***************************************  |  |
|   |   |  |  |   |   |                         |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        |          | Select of Martinella association assemble   |  |  |
|   |   |  |  |   |   |                         |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        |          | 3000  |  |  |
|   |   |  |  |   | +   |                         |                       |         |          |                    |                     |                  |                                |                    |               |        |                | T      |          | te distribution   |  |  |
|   |   |  |  |   |   |                         |                       |         |          |                    |                     |                  |                                |                    |               |        |                |        |          |   |  |  |
| Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. | C places the ownership<br>x being analyzed the sa<br>the signed Chain of Cu | of method, anal<br>amples must be<br>stody attesting t | yte & accredita<br>shipped back t<br>said complica | tion complianc<br>o the Eurofins<br>ance to Eurofin       | e upon<br>Xenco t<br>s Xenco                            | out sub<br>LC lab       | ocontr                | act lat | orato    | ries. T            | his saions v        | ample<br>vill be | shipn                          | entis<br>ed ⊅      | forw<br>my ch | arded  | unde<br>s to a | r chai | n-of-    | custo<br>n sta  | ody If the labora  | atory does not currently ought to Eurofins Xenco LLC |
| Possible Hazard Identification Unconfirmed  |   |  |  |   | Sa  | ∐mp/e                   | Dis                   | osa     | ) A      | fee                | _way_               | Ue<br>a          | ses                            | e                  | ifsa          | ğ      | s a            | ∐e l   | a a      | e e   | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) | 1 month)   |
| Deliverable Requested I II III IV, Other (specify)  | Primary Deliverable Rank. 2   | able Rank. 2   |  |   | Sp  | Special Instructions/QC | al Instructions/QC    | uctio   | ns/Q     | <u> </u>           | Requirements        | mer ,            | ints                           | ğ                  | 7 1           | ľ      | l              |        | 5        | 1   | ייניוואפיי טו  | months   |
| Empty Kit Relinquished by   |   | Date   |  |   | Time  |                         |                       |         |          | 1                  |                     |                  | `                              | Method of Shipment | od of         | Shipm  | ent:           |        | 1        |   |  |  |
| Reinquished by CLC CL 10 6.21   | Date/Time:  |  | C  | Company   |   | Tec.                    | 1/18                  | 1/2     |          |                    | 1                   | 1                | 1                              |                    |               | Date   | J. J.          | 7      | 73       | Commercial | でする  | Company  |
| Relinquished by   | Date/Time   |  | C  | Company   |   | ÆC.                     | received by           | 1       | ]        | U                  | V                   |                  |                                |                    |               | Date   | Date/Time      |        |          | 1   |  | Company  |
| Relinquished by   | Date/Time   |  | 0  | Company   |   | Rece                    | Received by           | Ÿ       |          |                    |                     |                  |                                |                    |               | Date   | Date∕Time      |        | 1        | I   |  | Company  |
| Custody Seals Intact: Custody Seal No   |   |  |  |   |   | Cool                    | Cooler Temperature(s) | ηρега   | ure(s)   |                    | C and Other Remarks | er Re            | Marks .                        | 72                 | 3             | ٥      |                |        |          |   |  |  |
|   |   |  |  |   |   |                         |                       |         |          |                    |                     |                  |                                |                    | 6             |        |                |        |          |   |  | Ver 06/08/2021                                       |

### **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1372-1

SDG Number: 31403236.022.0129

Login Number: 1372 List Source: Eurofins Xenco, 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: 890-1372-1

SDG Number: 31403236.022.0129

List Source: Eurofins Xenco, Midland

List Creation: 10/07/21 11:17 AM

List Number: 2 Creator: Copeland, Tatiana

Login Number: 1372

| 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   | 2.1 / 2.6 |
| 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               | True   |           |

<6mm (1/4").

### **Environment Testing America**

### **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1436-1

Laboratory SDG: 31403236.022.0129 Task 02.02

Client Project/Site: PLU 28 BS 901H

For:

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

Attn: Dan Moir

MEAMER

Authorized for release by: 10/22/2021 4:17:51 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc. Project/Site: PLU 28 BS 901H Laboratory Job ID: 890-1436-1 SDG: 31403236.022.0129 Task 02.02

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### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H

SDG: 31403236.022.0129 Task 02.02

**Qualifiers** 

**GC VOA** Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits. 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** 

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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.
 Job ID: 890-1436-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129 Task 02.02

Job ID: 890-1436-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1436-1

### Receipt

The samples were received on 10/14/2021 3:43 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**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10082 and analytical batch 880-10086 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-10073 and analytical batch 880-10053 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

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

### HPLC/IC

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

1

Eurofins Xenco, Carlsbad 10/22/2021

Lab Sample ID: 890-1436-1

### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1436-1

Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

**Client Sample ID: PH01** 

Date Collected: 10/14/21 11:55 Date Received: 10/14/21 15:43

Sample Depth: 1

| Analyte                                   | Result        | Qualifier             | RL       | Unit          | D          | Prepared       | Analyzed       | Dil Fac |
|---|---------------|-----------------------|----------|---------------|------------|----------------|----------------|---------|
| Benzene                                   | <0.00199      | U F1                  | 0.00199  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| Toluene                                   | <0.00199      | U F1                  | 0.00199  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| Ethylbenzene                              | <0.00199      | U F1                  | 0.00199  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| m-Xylene & p-Xylene                       | <0.00398      | U F1                  | 0.00398  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| o-Xylene                                  | < 0.00199     | U F1                  | 0.00199  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| Xylenes, Total                            | <0.00398      | U F1                  | 0.00398  | mg/Kg         |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| Surrogate                                 | %Recovery     | Qualifier             | Limits   |               |            | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)               | 93            |                       | 70 - 130 |               |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| 1,4-Difluorobenzene (Surr)                | 104           |                       | 70 - 130 |               |            | 10/21/21 13:00 | 10/22/21 07:30 | 1       |
| Method: Total BTEX - Total BTEX           | ( Calculation |                       |          |               |            |                |                |         |
| Analyte                                   | Result        | Qualifier             | RL       | Unit          | D          | Prepared       | Analyzed       | Dil Fac |
| Method: 8015 NM - Diesel Range<br>Analyte |               | O) (GC)<br>Qualifier  | RL       | Unit          | D          | Prepared       | Analyzed       | Dil Fac |
| Analyte Total TPH                         |               |                       | 49.9     | Unit<br>mg/Kg | D          | Prepared       | 10/20/21 13:58 | Dil Fac |
| Method: 8015B NM - Diesel Rang            |               | RO) (GC)<br>Qualifier | RL       | Unit          | D          | Prepared       | Analyzed       | Dil Fac |
| Analyte                                   |               |                       |          |               | — <u>-</u> | <u>.</u>       |                |         |
| Gasoline Range Organics<br>(GRO)-C6-C10   | <49.9         | U                     | 49.9     | mg/Kg         |            | 10/21/21 09:49 | 10/21/21 14:42 | 1       |
| Diesel Range Organics (Over C10-C28)      | <49.9         | U *1                  | 49.9     | mg/Kg         |            | 10/21/21 09:49 | 10/21/21 14:42 | 1       |
| Oll Range Organics (Over C28-C36)         | <49.9         | U                     | 49.9     | mg/Kg         |            | 10/21/21 09:49 | 10/21/21 14:42 | 1       |
| Surrogate                                 | %Recovery     | Qualifier             | Limits   |               |            | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                            | 105           |                       | 70 - 130 |               |            | 10/21/21 09:49 | 10/21/21 14:42 | 1       |
| o-Terphenyl                               | 116           |                       | 70 - 130 |               |            | 10/21/21 09:49 | 10/21/21 14:42 | 1       |
| Method: 300.0 - Anions, Ion Chro          | • • •         |                       |          |               |            |                |                |         |
| Analyte                                   | Result        | Qualifier             | RL       | Unit          | D          | Prepared       | Analyzed       | Dil Fac |
| - Indiyio                                 | 113           |                       | 5.01     | mg/Kg         |            |                | 10/22/21 08:53 | 1       |

**Client Sample ID: PH01A** 

Date Collected: 10/14/21 11:58 Date Received: 10/14/21 15:43

Sample Depth: 2

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |       |   | 10/21/21 13:00 | 10/22/21 07:51 | 1       |

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1436-2

Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-1436-1

SDG: 31403236.022.0129 Task 02.02

Lab Sample ID: 890-1436-2

Client Sample ID: PH01A

Project/Site: PLU 28 BS 901H

Date Collected: 10/14/21 11:58 Date Received: 10/14/21 15:43

Sample Depth: 2

| Method: 8021R - \ | Jolatile Organic ( | Compounds | (GC) (Continued) |  |
|-------------------|--------------------|-----------|------------------|--|

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 109       |           | 70 - 130 | 10/21/21 13:00 | 10/22/21 07:51 | 1       |

| Mathod:   | Total RTFY | - Total BTEX  | Calculation |
|-----------|------------|---------------|-------------|
| mictilou. | TOTAL DIEN | - IUIUI DI LA | Calculation |

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 10/21/21 17:04 | 1       |

| Method: 8015 NM - Diesel Range Organics (DRO) ( |                        |                  |                 |
|---|------------------------|------------------|-----------------|
| Method: 8015 MM = Diesel Rande Ordanics (DRO) ( | Made al. COAT NIM Diag |                  | : (DDO) (OO)    |
|   | Wetnoo: 8015 NW - Dies | iei Kande Ordani | ICS (IJKU) (GU) |

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 10/20/21 13:58 | 1       |

| Analyte                                 | Result    | Qualifier | RL     | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|-----------|-----------|--------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.8     | U         | 49.8   | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:01 | 1       |
| Diesel Range Organics (Over C10-C28)    | <49.8     | U *1      | 49.8   | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:01 | 1       |
| Oll Range Organics (Over C28-C36)       | <49.8     | U         | 49.8   | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:01 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits |       |   | Prepared       | Analyzed       | Dil Fac |

| Surroyate      | MRECOVERY Q | quanner Linns | riepaieu       | Allalyzeu      | ווע |
|----------------|-------------|---------------|----------------|----------------|-----|
| 1-Chlorooctane | 103         | 70 - 130      | 10/21/21 09:49 | 10/21/21 15:01 |     |
| o-Terphenyl    | 110         | 70 - 130      | 10/21/21 09:49 | 10/21/21 15:01 |     |
| _              |             |               |                |                |     |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 24.7   |           | 4.95 | mg/Kg |   |          | 10/22/21 09:00 | 1       |

**Client Sample ID: PH02** Lab Sample ID: 890-1436-3 Matrix: Solid

Date Collected: 10/14/21 12:18 Date Received: 10/14/21 15:43

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 |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| Ethylbenzene                | < 0.00199 | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| o-Xylene                    | < 0.00199 | U         | 0.00199  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 |       |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 |       |   | 10/21/21 13:00 | 10/22/21 08:11 | 1       |
|                             |           |           |          |       |   |                |                |         |

| Mothod: | Total RTF | Y - Total R | TFX Calculatio | n |
|---------|-----------|-------------|----------------|---|

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | DII Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 10/21/21 17:04 | 1       |

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 102    |           | 49.9 | mg/Kg |   | -        | 10/20/21 13:58 | 1       |

Lab Sample ID: 890-1436-3

Client: WSP USA Inc. Job ID: 890-1436-1

Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

**Client Sample ID: PH02** 

Date Collected: 10/14/21 12:18 Date Received: 10/14/21 15:43

Sample Depth: 1

| Analyte                                 | Result        | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.9         | U         | 49.9     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:21 | 1       |
| Diesel Range Organics (Over C10-C28)    | 102           | *1        | 49.9     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:21 | 1       |
| Oll Range Organics (Over C28-C36)       | <49.9         | U         | 49.9     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 15:21 | 1       |
| Surrogate                               | %Recovery     | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 98            |           | 70 - 130 |       |   | 10/21/21 09:49 | 10/21/21 15:21 | 1       |
| o-Terphenyl                             | 105           |           | 70 - 130 |       |   | 10/21/21 09:49 | 10/21/21 15:21 | 1       |
| Method: 300.0 - Anions, Ion Chro        | omatography - | Soluble   |          |       |   |                |                |         |
| Analyte                                 | Result        | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|   |               |           | 5.04     |       |   |                | 10/22/21 09:22 |         |

Client Sample ID: PH02A Lab Sample ID: 890-1436-4 Matrix: Solid

Date Collected: 10/14/21 12:21 Date Received: 10/14/21 15:43

Sample Depth: 2

| Analyte   | Result  | Qualifier                               | RL                               | Unit                          | D        | Prepared  | Analyzed   | Dil Fac |
|---|---|---|----------------------------------|-------------------------------|----------|---|--|---------|
| Benzene   | <0.00200  | U                                       | 0.00200                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| Toluene   | <0.00200  | U                                       | 0.00200                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| Ethylbenzene  | <0.00200  | U                                       | 0.00200                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| m-Xylene & p-Xylene   | < 0.00399   | U                                       | 0.00399                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| o-Xylene  | <0.00200  | U                                       | 0.00200                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| Xylenes, Total  | <0.00399  | U                                       | 0.00399                          | mg/Kg                         |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| Surrogate   | %Recovery   | Qualifier                               | Limits                           |                               |          | Prepared  | Analyzed   | Dil Fac |
| 4-Bromofluorobenzene (Surr)   | 94  |   | 70 - 130                         |                               |          | 10/21/21 13:00  | 10/22/21 08:32   | 1       |
| 1,4-Difluorobenzene (Surr)  | 110   |   | 70 - 130                         |                               |          | 10/21/21 13:00  | 10/22/21 08:32   | 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                         |          |   | 10/21/21 17:04   | 1       |
| -   | 0.0000  | •                                       | 0.00000                          | mg/rtg                        |          |   | 10/21/21 17:01   |         |
|   |   |   | 0.00000                          | mg/kg                         |          |   | 10/21/21 17:01   |         |
| Method: 8015 NM - Diesel Range  | Organics (DR  |   | RL                               | Unit                          | D        | Prepared  | Analyzed   |         |
| Method: 8015 NM - Diesel Range<br>Analyte<br>Total TPH  | Organics (DR  | O) (GC)<br>Qualifier                    |                                  |                               | <u>D</u> | Prepared  |  | Dil Fac |
| Method: 8015 NM - Diesel Range<br>Analyte   | Organics (DR<br>Result<br><49.9   | O) (GC) Qualifier                       | RL                               | Unit                          | <u>D</u> | Prepared  | Analyzed   | Dil Fac |
| Method: 8015 NM - Diesel Range<br>Analyte<br>Total TPH<br>Method: 8015B NM - Diesel Rang  | Organics (DR<br>Result<br><49.9   | O) (GC) Qualifier                       | RL                               | Unit                          | <u>D</u> | Prepared Prepared                                     | Analyzed   | Dil Fac |
| Method: 8015 NM - Diesel Range<br>Analyte<br>Total TPH  | Organics (DR<br>Result<br><49.9   | Qualifier U RO) (GC) Qualifier          | <b>RL</b> 49.9                   | <mark>Unit</mark><br>mg/Kg    |          |   | Analyzed 10/20/21 13:58  | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10   | Organics (DR/Result <a href="#">&lt;49.9</a> e Organics (D/Result <a href="#">&lt;49.9</a>  | Qualifier U  RO) (GC) Qualifier U       | RL 49.9                          | Unit mg/Kg  Unit mg/Kg        |          | Prepared 10/21/21 09:49                               | Analyzed  10/20/21 13:58  Analyzed  10/21/21 15:41                             | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over   | Organics (DR/Result <a href="#">&lt;49.9</a> e Organics (DR/Result <a href="#">&lt;49.9</a> | Qualifier U  RO) (GC) Qualifier U       | RL<br>                           | Unit mg/Kg                    |          | Prepared  | Analyzed 10/20/21 13:58 Analyzed   | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10   | Organics (DR/Result <a href="#">&lt;49.9</a> e Organics (D/Result <a href="#">&lt;49.9</a>  | Qualifier U  RO) (GC) Qualifier U  U *1 | RL 49.9                          | Unit mg/Kg  Unit mg/Kg        |          | Prepared 10/21/21 09:49                               | Analyzed  10/20/21 13:58  Analyzed  10/21/21 15:41                             | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                    | Organics (DR/Result <49.9  e Organics (D/Result <49.9) <p>449.9</p>                         | Qualifier U  RO) (GC) Qualifier U  U *1 | RL 49.9  RL 49.9                 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 10/21/21 09:49 10/21/21 09:49                | Analyzed 10/20/21 13:58  Analyzed 10/21/21 15:41 10/21/21 15:41                | Dil Fac |
| Method: 8015 NM - Diesel Range Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Organics (DR/Result   | Qualifier U  RO) (GC) Qualifier U  U *1 | RL<br>49.9<br>RL<br>49.9<br>49.9 | Unit mg/Kg  Unit mg/Kg  mg/Kg |          | Prepared 10/21/21 09:49 10/21/21 09:49 10/21/21 09:49 | Analyzed 10/20/21 13:58  Analyzed 10/21/21 15:41 10/21/21 15:41 10/21/21 15:41 | Dil Fac |

Lab Sample ID: 890-1436-4

Job ID: 890-1436-1

Client: WSP USA Inc. Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

Client Sample ID: PH02A

Date Collected: 10/14/21 12:21 Date Received: 10/14/21 15:43

Sample Depth: 2

| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |       |   |          |                |         |  |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride   | 96.7   |           | 4.99 | mg/Kg |   |          | 10/22/21 09:29 | 1       |  |

**Client Sample ID: PH03** Lab Sample ID: 890-1436-5 **Matrix: Solid** 

Date Collected: 10/14/21 12:35 Date Received: 10/14/21 15:43

Sample Depth: 1

Analyte

Chloride

| Analyte   | Result  | Qualifier                               | RL                         | Unit                         | D        | Prepared  | Analyzed  | Dil Fa |
|---|---|---|----------------------------|------------------------------|----------|---|---|--------|
| Benzene   | <0.00200  | U                                       | 0.00200                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| Toluene   | <0.00200  | U                                       | 0.00200                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| Ethylbenzene  | <0.00200  | U                                       | 0.00200                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| m-Xylene & p-Xylene   | <0.00400  | U                                       | 0.00400                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| o-Xylene  | <0.00200  | U                                       | 0.00200                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| Xylenes, Total  | <0.00400  | U                                       | 0.00400                    | mg/Kg                        |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| Surrogate   | %Recovery   | Qualifier                               | Limits                     |                              |          | Prepared  | Analyzed  | Dil F  |
| 4-Bromofluorobenzene (Surr)   | 102   |   | 70 - 130                   |                              |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| 1,4-Difluorobenzene (Surr)  | 104   |   | 70 - 130                   |                              |          | 10/21/21 13:00  | 10/22/21 08:53  |        |
| Method: Total BTEX - Total BTEX   | Calculation   |   |                            |                              |          |   |   |        |
| Analyte   | Result  | Qualifier                               | RL                         | Unit                         | D        | Prepared  | Analyzed  | Dil F  |
| Total BTEX  | <0.00400  | U                                       | 0.00400                    | mg/Kg                        |          |   | 10/22/21 12:42  |        |
| Method: 8015 NM - Diesel Range  | Organics (DR)   | O) (GC)                                 |                            |                              |          |   |   |        |
| Method: 8015 NM - Diesel Range  |   |   | ρI                         |                              | n        | Propared  | Analyzod  | Dil E  |
| Method: 8015 NM - Diesel Range<br>Analyte<br>Total TPH  |   | Qualifier                               | RL                         | Unit mg/Kg                   | <u>D</u> | Prepared  | Analyzed 10/20/21 13:58   | Dil F  |
| Analyte<br>Total TPH  | Result < 50.0   | Qualifier<br>U                          |                            | Unit                         | <u>D</u> | Prepared  |   | Dil F  |
| Analyte<br>Total TPH<br>Method: 8015B NM - Diesel Rang  | Result <50.0  | Qualifier U RO) (GC)                    | 50.0                       | Unit mg/Kg                   |          | <u> </u>  | 10/20/21 13:58  |        |
| Analyte<br>Total TPH<br>Method: 8015B NM - Diesel Rang<br>Analyte   | Result <50.0    Control   Control | Qualifier U  RO) (GC) Qualifier         | 50.0                       | Unit mg/Kg                   | <u>D</u> | Prepared  | 10/20/21 13:58  Analyzed  |        |
| Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics  | Result <50.0  | Qualifier U  RO) (GC) Qualifier         | 50.0                       | Unit mg/Kg                   |          | <u> </u>  | 10/20/21 13:58  | Dil F  |
| Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10  | Result <50.0    Control   Control | Qualifier U  RO) (GC) Qualifier U       | 50.0                       | Unit mg/Kg                   |          | Prepared  | 10/20/21 13:58  Analyzed  |        |
| Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over  | Result <50.0  ge Organics (DI Result <50.0  | Qualifier U  RO) (GC) Qualifier U       | 50.0<br>RL<br>50.0         | Unit mg/Kg  Unit mg/Kg       |          | Prepared 10/21/21 09:49                               | 10/20/21 13:58  Analyzed  10/21/21 16:00                              |        |
| Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)                                  | Result <50.0  ge Organics (DI Result <50.0  | Qualifier U  RO) (GC) Qualifier U  U *1 | 50.0<br>RL<br>50.0         | Unit mg/Kg  Unit mg/Kg       |          | Prepared 10/21/21 09:49                               | 10/20/21 13:58  Analyzed  10/21/21 16:00                              |        |
| Analyte   | Result   <50.0  | Qualifier U  RO) (GC) Qualifier U  U *1 | 50.0  RL  50.0  50.0       | Unit mg/Kg  Unit mg/Kg mg/Kg |          | Prepared 10/21/21 09:49 10/21/21 09:49                | 10/20/21 13:58  Analyzed 10/21/21 16:00 10/21/21 16:00                |        |
| Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result   <50.0  | Qualifier U  RO) (GC) Qualifier U  U *1 | 50.0  RL  50.0  50.0  50.0 | Unit mg/Kg  Unit mg/Kg mg/Kg |          | Prepared 10/21/21 09:49 10/21/21 09:49 10/21/21 09:49 | 10/20/21 13:58  Analyzed 10/21/21 16:00 10/21/21 16:00 10/21/21 16:00 | Dil F  |

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Analyzed 10/22/21 09:36

RL

4.97

Unit

mg/Kg

D

Prepared

Result Qualifier

127

Dil Fac

Lab Sample ID: 890-1436-6

### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1436-1

Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

Client Sample ID: PH03A Date Collected: 10/14/21 12:38 Date Received: 10/14/21 15:43

Sample Depth: 2

| Analyte                                 | Result         | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
|---|----------------|-----------|----------|-------|---|----------------|----------------|--------|
| Benzene                                 | <0.00198       | U         | 0.00198  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| Toluene                                 | <0.00198       | U         | 0.00198  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| Ethylbenzene                            | <0.00198       | U         | 0.00198  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| m-Xylene & p-Xylene                     | <0.00396       | U         | 0.00396  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| o-Xylene                                | <0.00198       | U         | 0.00198  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| Xylenes, Total                          | <0.00396       | U         | 0.00396  | mg/Kg |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| Surrogate                               | %Recovery      | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fa |
| 4-Bromofluorobenzene (Surr)             | 104            |           | 70 - 130 |       |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| 1,4-Difluorobenzene (Surr)              | 115            |           | 70 - 130 |       |   | 10/21/21 13:00 | 10/22/21 09:14 |        |
| Method: Total BTEX - Total BTEX         | ( Calculation  |           |          |       |   |                |                |        |
| Analyte                                 | Result         | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
| Total BTEX                              | <0.00396       | U         | 0.00396  | mg/Kg |   |                | 10/22/21 12:42 |        |
| Method: 8015 NM - Diesel Range          | •              |           |          |       |   |                |                |        |
| Analyte                                 |                | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
| Total TPH                               | <50.0          | U         | 50.0     | mg/Kg |   |                | 10/20/21 13:58 |        |
| Method: 8015B NM - Diesel Rang          | ge Organics (D | RO) (GC)  |          |       |   |                |                |        |
| Analyte                                 | Result         | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0          | U         | 50.0     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 16:20 |        |
| Diesel Range Organics (Over<br>C10-C28) | <50.0          | U *1      | 50.0     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 16:20 |        |
| Oll Range Organics (Over C28-C36)       | <50.0          | U         | 50.0     | mg/Kg |   | 10/21/21 09:49 | 10/21/21 16:20 |        |
| Surrogate                               | %Recovery      | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fa |
| 1-Chlorooctane                          | 107            |           | 70 - 130 |       |   | 10/21/21 09:49 | 10/21/21 16:20 |        |
| o-Terphenyl                             | 111            |           | 70 - 130 |       |   | 10/21/21 09:49 | 10/21/21 16:20 |        |
| Method: 300.0 - Anions, Ion Chro        | omatography -  | Soluble   |          |       |   |                |                |        |
| Analyte                                 | Result         | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fa |
|   |                |           | 5.05     | mg/Kg |   |                |                |        |

### **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

|                        |                        |          |          | Percent Surrogate Recovery (Acceptance Lin |
|------------------------|------------------------|----------|----------|--|
|                        |                        | BFB1     | DFBZ1    |  |
| Lab Sample ID          | Client Sample ID       | (70-130) | (70-130) |  |
| 890-1436-1             | PH01                   | 93       | 104      |  |
| 390-1436-1 MS          | PH01                   | 94       | 92       |  |
| 390-1436-1 MSD         | PH01                   | 95       | 92       |  |
| 390-1436-2             | PH01A                  | 97       | 109      |  |
| 390-1436-3             | PH02                   | 98       | 108      |  |
| 390-1436-4             | PH02A                  | 94       | 110      |  |
| 390-1436-5             | PH03                   | 102      | 104      |  |
| 390-1436-6             | PH03A                  | 104      | 115      |  |
| CS 880-10082/1-A       | Lab Control Sample     | 102      | 96       |  |
| CSD 880-10082/2-A      | Lab Control Sample Dup | 102      | 97       |  |
| MB 880-10082/5-A       | Method Blank           | 111      | 98       |  |
| MB 880-9954/5-A        | Method Blank           | 118      | 103      |  |
| Surrogate Legend       |                        |          |          |  |
| BFB = 4-Bromofluorobe  | nzene (Surr)           |          |          |  |
| DFBZ = 1,4-Difluoroben | zene (Surr)            |          |          |  |

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

Matrix: Solid Prep Type: Total/NA

|                  |                        |          |          | Percent Surrogate Recovery (Acceptance |
|------------------|------------------------|----------|----------|--|
|                  |                        | 1CO1     | OTPH1    |  |
| b Sample ID      | Client Sample ID       | (70-130) | (70-130) |  |
| 0-7346-A-1-F MS  | Matrix Spike           | 127      | 124      |  |
| 0-7346-A-1-G MSD | Matrix Spike Duplicate | 123      | 125      |  |
| 0-1436-1         | PH01                   | 105      | 116      |  |
| 0-1436-2         | PH01A                  | 103      | 110      |  |
| )-1436-3         | PH02                   | 98       | 105      |  |
| )-1436-4         | PH02A                  | 98       | 102      |  |
| 1436-5           | PH03                   | 101      | 107      |  |
| 1436-6           | PH03A                  | 107      | 111      |  |
| 8 880-10073/2-A  | Lab Control Sample     | 88       | 83       |  |
| SD 880-10073/3-A | Lab Control Sample Dup | 98       | 94       |  |
| 880-10073/1-A    | Method Blank           | 103      | 108      |  |

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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### **QC Sample Results**

 Client: WSP USA Inc.
 Job ID: 890-1436-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129 Task 02.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10082/5-A

Lab Sample ID: LCS 880-10082/1-A

Matrix: Solid Analysis Batch: 10086 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10082

|                     | IVID     | IVID      |         |       |   |                |                |         |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
|                     |          |           |         |       |   |                |                |         |

MB MB

MD MD

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 | 10/21/21 13:00 | 10/22/21 07:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 10/21/21 13:00 | 10/22/21 07:08 | 1       |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10082

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08621 mg/Kg 86 70 - 130 Toluene 0.100 0.08303 mg/Kg 83 70 - 130 0.100 88 Ethylbenzene 0.08803 mg/Kg 70 - 130 0.200 0.1716 86 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08940 70 - 130 o-Xylene mg/Kg

LCS LCS

| Surrogate                   | %Recovery 0 | Qualifier | Limits   |
|-----------------------------|-------------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102         |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96          |           | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

**Matrix: Solid** 

**Analysis Batch: 10086** 

Analysis Batch: 10086

Lab Sample ID: LCSD 880-10082/2-A

Prep Type: Total/NA Prep Batch: 10082

|                     | Spike | LCSD    | LCSD      |       |   |      | %Rec.    |     | RPD   |  |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte             | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Benzene             | 0.100 | 0.08243 |           | mg/Kg |   | 82   | 70 - 130 | 4   | 35    |  |
| Toluene             | 0.100 | 0.08181 |           | mg/Kg |   | 82   | 70 - 130 | 1   | 35    |  |
| Ethylbenzene        | 0.100 | 0.08657 |           | mg/Kg |   | 87   | 70 - 130 | 2   | 35    |  |
| m-Xylene & p-Xylene | 0.200 | 0.1690  |           | mg/Kg |   | 84   | 70 - 130 | 2   | 35    |  |
| o-Xylene            | 0.100 | 0.08784 |           | mg/Kg |   | 88   | 70 - 130 | 2   | 35    |  |

LCSD LCSD

| Surrogate                   | %Recovery Qualifier | Limits   |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 102                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97                  | 70 - 130 |

Lab Sample ID: 890-1436-1 MS

Matrix: Solid

**Analysis Batch: 10086** 

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 10082

| -       | Sample   | Sample    | Spike  | MS      | MS        |       |   |      | %Rec.    |  |
|---------|----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result   | Qualifier | Added  | Result  | Qualifier | Unit  | D | %Rec | Limits   |  |
| Benzene | <0.00199 | U F1      | 0.0998 | 0.06756 | F1        | mg/Kg |   | 68   | 70 - 130 |  |
| Toluene | <0.00199 | U F1      | 0.0998 | 0.06433 | F1        | mg/Kg |   | 64   | 70 - 130 |  |

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 Client: WSP USA Inc.
 Job ID: 890-1436-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129 Task 02.02

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

Lab Sample ID: 890-1436-1 MS

Client Sample ID: PH01

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 10086

Prep Type: Total/NA

Prep Ty

|                     | Oumpic   | Campic    | Opino  | IVIO    | IVIO      |       |   |      | /01 <b>100</b> . |  |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|------------------|--|
| Analyte             | Result   | Qualifier | Added  | Result  | Qualifier | Unit  | D | %Rec | Limits           |  |
| Ethylbenzene        | <0.00199 | U F1      | 0.0998 | 0.06496 | F1        | mg/Kg |   | 65   | 70 - 130         |  |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.200  | 0.1187  | F1        | mg/Kg |   | 59   | 70 - 130         |  |
| o-Xylene            | <0.00199 | U F1      | 0.0998 | 0.06443 | F1        | mg/Kg |   | 65   | 70 - 130         |  |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 94
 70 - 130

 1,4-Difluorobenzene (Surr)
 92
 70 - 130

Lab Sample ID: 890-1436-1 MSD

Matrix: Solid

Client Sample ID: PH01

Prep Type: Total/NA

Analysis Batch: 10086 Prep Batch: 10082

|                     | Sample   | Sample    | Spike | MSD     | MSD       |       |   |      | %Rec.    |     | RPD   |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte             | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene             | <0.00199 | U F1      | 0.100 | 0.06708 | F1        | mg/Kg |   | 67   | 70 - 130 | 1   | 35    |
| Toluene             | <0.00199 | U F1      | 0.100 | 0.06296 | F1        | mg/Kg |   | 63   | 70 - 130 | 2   | 35    |
| Ethylbenzene        | <0.00199 | U F1      | 0.100 | 0.06462 | F1        | mg/Kg |   | 65   | 70 - 130 | 1   | 35    |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.200 | 0.1185  | F1        | mg/Kg |   | 59   | 70 - 130 | 0   | 35    |
| o-Xylene            | <0.00199 | U F1      | 0.100 | 0.06433 | F1        | mg/Kg |   | 64   | 70 - 130 | 0   | 35    |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 95
 70 - 130

 1,4-Difluorobenzene (Surr)
 92
 70 - 130

Lab Sample ID: MB 880-9954/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 10086

MB MB

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
|                     |          |           |         |       |   |                |                |         |

|                             | мв мв               |          |                |                |         |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| Surrogate                   | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118                 | 70 - 130 | 10/20/21 10:54 | 10/21/21 20:12 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103                 | 70 - 130 | 10/20/21 10:54 | 10/21/21 20:12 | 1       |

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

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Lab Sample ID: MB 880-10073/1-A

Matrix: Solid

Analysis Batch: 10053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10073

MB MB

malyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 10/21/21 09:49
 10/21/21 11:42
 1

 (GRO)-C6-C10
 (GRO)-C6-C10

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Prep Batch: 9954

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

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

Lab Sample ID: MB 880-10073/1-A

Lab Sample ID: LCS 880-10073/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 10053** 

Analysis Batch: 10053

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10073

| Analyte                           | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over       | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/21 09:49 | 10/21/21 11:42 | 1       |
| C10-C28)                          |        |           |      |       |   |                |                |         |
| OII Range Organics (Over C28-C36) | <50.0  | U         | 50.0 | mg/Kg |   | 10/21/21 09:49 | 10/21/21 11:42 | 1       |
|                                   |        |           |      |       |   |                |                |         |

MB MB

MB MB

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 103       |           | 70 - 130 | 10/21/21 09:49 | 10/21/21 11:42 | 1       |
| o-Terphenyl    | 108       |           | 70 - 130 | 10/21/21 09:49 | 10/21/21 11:42 | 1       |

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 10073

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 801.8 80 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 816.3 mg/Kg 82 70 - 130 C10-C28)

LCS LCS

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 88        |           | 70 - 130 |
| o-Terphenyl    | 83        |           | 70 - 130 |

Lab Sample ID: LCSD 880-10073/3-A

**Matrix: Solid Analysis Batch: 10053**  Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 10073

|                             | Spike | LCSD   | LCSD      |       |   |      | %Rec.    |     | RPD   |  |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |  |
| Gasoline Range Organics     | 1000  | 983.9  |           | mg/Kg |   | 98   | 70 - 130 | 20  | 20    |  |
| (GRO)-C6-C10                |       |        |           |       |   |      |          |     |       |  |
| Diesel Range Organics (Over | 1000  | 1020   | *1        | mg/Kg |   | 102  | 70 - 130 | 22  | 20    |  |
| C10-C28)                    |       |        |           |       |   |      |          |     |       |  |

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: 880-7346-A-1-F MS

**Matrix: Solid** 

**Analysis Batch: 10053** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 10073

|                                      | 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         | 996   | 1082   |           | mg/Kg |   | 107  | 70 - 130 |  |
| Diesel Range Organics (Over          | 1190   | *1        | 996   | 2214   |           | mg/Kg |   | 103  | 70 - 130 |  |

C10-C28)

|                | IVIS      | IVIS      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 127       |           | 70 - 130 |
| o-Terphenyl    | 124       |           | 70 - 130 |

Job ID: 890-1436-1

Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

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

Lab Sample ID: 880-7346-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 10053** 

Client: WSP USA Inc.

Prep Batch: 10073 Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <50.0 U 998 1061 mg/Kg 105 70 - 130 2 20 (GRO)-C6-C10 998 106 Diesel Range Organics (Over 1190 \*1 2245 mg/Kg 70 - 13020

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 123 o-Terphenyl 125 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9775/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 10150** 

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 10/22/21 07:56

Lab Sample ID: LCS 880-9775/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 10150** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 259.4 90 - 110 mg/Kg 104

Lab Sample ID: LCSD 880-9775/3-A

**Matrix: Solid** 

**Analysis Batch: 10150** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 262.6 105 90 - 110 mg/Kg

Lab Sample ID: 890-1435-A-24-B MS

**Matrix: Solid** 

**Analysis Batch: 10150** 

Sample Sample Spike MS MS %Rec. Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 248 105 90 - 110 87.6 347.6 mg/Kg

Lab Sample ID: 890-1435-A-24-C MSD

Matrix: Solid

Analysis Batch: 10150

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 248 87.6 350.3 106 90 - 110 20 mg/Kg

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Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike

 Client: WSP USA Inc.
 Job ID: 890-1436-1

 Project/Site: PLU 28 BS 901H
 SDG: 31403236.022.0129 Task 02.02

**GC VOA** 

Prep Batch: 9954

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-9954/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

Prep Batch: 10082

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1436-1         | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-1436-2         | PH01A                  | Total/NA  | Solid  | 5035   |            |
| 890-1436-3         | PH02                   | Total/NA  | Solid  | 5035   |            |
| 890-1436-4         | PH02A                  | Total/NA  | Solid  | 5035   |            |
| 890-1436-5         | PH03                   | Total/NA  | Solid  | 5035   |            |
| 890-1436-6         | PH03A                  | Total/NA  | Solid  | 5035   |            |
| MB 880-10082/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-10082/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-10082/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-1436-1 MS      | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-1436-1 MSD     | PH01                   | Total/NA  | Solid  | 5035   |            |

**Analysis Batch: 10086** 

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1436-1         | PH01                   | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-2         | PH01A                  | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-3         | PH02                   | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-4         | PH02A                  | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-5         | PH03                   | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-6         | PH03A                  | Total/NA  | Solid  | 8021B  | 10082      |
| MB 880-10082/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 10082      |
| MB 880-9954/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 9954       |
| LCS 880-10082/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 10082      |
| LCSD 880-10082/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-1 MS      | PH01                   | Total/NA  | Solid  | 8021B  | 10082      |
| 890-1436-1 MSD     | PH01                   | Total/NA  | Solid  | 8021B  | 10082      |

Analysis Batch: 10147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1436-1    | PH01             | Total/NA  | Solid  | Total BTEX |            |
| 890-1436-2    | PH01A            | Total/NA  | Solid  | Total BTEX |            |
| 890-1436-3    | PH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-1436-4    | PH02A            | Total/NA  | Solid  | Total BTEX |            |
| 890-1436-5    | PH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-1436-6    | PH03A            | Total/NA  | Solid  | Total BTEX |            |

**GC Semi VOA** 

**Analysis Batch: 10003** 

| Lab Sample ID            | Client Sample ID | Prep Type            | Matrix         | Method             | Prep Batch |
|--------------------------|------------------|----------------------|----------------|--------------------|------------|
| 890-1436-1<br>890-1436-2 | PH01<br>PH01A    | Total/NA<br>Total/NA | Solid<br>Solid | 8015 NM<br>8015 NM |            |
| 890-1436-3               | PH02             | Total/NA             | Solid          | 8015 NM            |            |
| 890-1436-4               | PH02A            | Total/NA             | Solid          | 8015 NM            |            |
| 890-1436-5               | PH03             | Total/NA             | Solid          | 8015 NM            |            |
| 890-1436-6               | PH03A            | Total/NA             | Solid          | 8015 NM            |            |

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Job ID: 890-1436-1 Client: WSP USA Inc. Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

GC Semi VOA

### **Analysis Batch: 10053**

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1436-1         | PH01                   | Total/NA  | Solid  | 8015B NM | 10073      |
| 890-1436-2         | PH01A                  | Total/NA  | Solid  | 8015B NM | 10073      |
| 890-1436-3         | PH02                   | Total/NA  | Solid  | 8015B NM | 10073      |
| 890-1436-4         | PH02A                  | Total/NA  | Solid  | 8015B NM | 10073      |
| 890-1436-5         | PH03                   | Total/NA  | Solid  | 8015B NM | 10073      |
| 890-1436-6         | PH03A                  | Total/NA  | Solid  | 8015B NM | 10073      |
| MB 880-10073/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 10073      |
| LCS 880-10073/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 10073      |
| LCSD 880-10073/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 10073      |
| 880-7346-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 10073      |
| 880-7346-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 10073      |

Prep Batch: 10073

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1436-1         | PH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1436-2         | PH01A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1436-3         | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1436-4         | PH02A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1436-5         | PH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-1436-6         | PH03A                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-10073/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-10073/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-10073/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-7346-A-1-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-7346-A-1-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

HPLC/IC

### Leach Batch: 9775

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1436-1          | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-1436-2          | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-1436-3          | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-1436-4          | PH02A                  | Soluble   | Solid  | DI Leach |            |
| 890-1436-5          | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-1436-6          | PH03A                  | Soluble   | Solid  | DI Leach |            |
| MB 880-9775/1-A     | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-9775/2-A    | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-9775/3-A   | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-1435-A-24-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-1435-A-24-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

**Analysis Batch: 10150** 

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 890-1436-1      | PH01             | Soluble   | Solid  | 300.0  | 9775       |
| 890-1436-2      | PH01A            | Soluble   | Solid  | 300.0  | 9775       |
| 890-1436-3      | PH02             | Soluble   | Solid  | 300.0  | 9775       |
| 890-1436-4      | PH02A            | Soluble   | Solid  | 300.0  | 9775       |
| 890-1436-5      | PH03             | Soluble   | Solid  | 300.0  | 9775       |
| 890-1436-6      | PH03A            | Soluble   | Solid  | 300.0  | 9775       |
| MB 880-9775/1-A | Method Blank     | Soluble   | Solid  | 300.0  | 9775       |

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

### **HPLC/IC (Continued)**

### **Analysis Batch: 10150 (Continued)**

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCS 880-9775/2-A    | Lab Control Sample     | Soluble   | Solid  | 300.0  | 9775       |
| LCSD 880-9775/3-A   | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 9775       |
| 890-1435-A-24-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 9775       |
| 890-1435-A-24-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 9775       |

Job ID: 890-1436-1

SDG: 31403236.022.0129 Task 02.02

**Client Sample ID: PH01** 

Project/Site: PLU 28 BS 901H

Client: WSP USA Inc.

Lab Sample ID: 890-1436-1

**Matrix: Solid** 

Date Collected: 10/14/21 11:55 Date Received: 10/14/21 15:43

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 10082  | 10/21/21 13:00 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 10086  | 10/22/21 07:30 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 10147  | 10/21/21 17:04 | AJ      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 10003  | 10/20/21 13:58 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 10073  | 10/21/21 09:49 | AM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 10053  | 10/21/21 14:42 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9775   | 10/18/21 14:38 | CA      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 10150  | 10/22/21 08:53 | CH      | XEN MID |

**Client Sample ID: PH01A** Lab Sample ID: 890-1436-2 Date Collected: 10/14/21 11:58

**Matrix: Solid** 

Date Received: 10/14/21 15:43

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 XEN MID Total/NA Prep 10082 10/21/21 13:00 KL Total/NA 8021B 10/22/21 07:51 XEN MID Analysis 1 10086 KL Total/NA Total BTEX 10/21/21 17:04 XEN MID Analysis 1 10147 A.I Total/NA Analysis 8015 NM 10003 10/20/21 13:58 XEN MID Total/NA 10073 XEN MID Prep 8015NM Prep 10/21/21 09:49 AM Total/NA Analysis 8015B NM 10053 10/21/21 15:01 XEN MID Soluble XEN MID Leach DI Leach 9775 10/18/21 14:38 CA Soluble Analysis 300.0 1 10150 10/22/21 09:00 СН XEN MID

Lab Sample ID: 890-1436-3 **Client Sample ID: PH02** 

Date Collected: 10/14/21 12:18 **Matrix: Solid** Date Received: 10/14/21 15:43

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 10082  | 10/21/21 13:00 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 10086  | 10/22/21 08:11 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 10147  | 10/21/21 17:04 | AJ      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 10003  | 10/20/21 13:58 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 10073  | 10/21/21 09:49 | AM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 10053  | 10/21/21 15:21 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9775   | 10/18/21 14:38 | CA      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 10150  | 10/22/21 09:22 | CH      | XEN MID |

Client Sample ID: PH02A Lab Sample ID: 890-1436-4

Date Collected: 10/14/21 12:21 Matrix: Solid Date Received: 10/14/21 15:43

|           | Batch    | Batch      |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method     | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035       |     |          | 10082  | 10/21/21 13:00 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B      |     | 1        | 10086  | 10/22/21 08:32 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX |     | 1        | 10147  | 10/21/21 17:04 | AJ      | XEN MID |

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H

SDG: 31403236.022.0129 Task 02.02

Client Sample ID: PH02A

Lab Sample ID: 890-1436-4

Matrix: Solid

Date Collected: 10/14/21 12:21 Date Received: 10/14/21 15:43

**Client Sample ID: PH03** 

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 10003  | 10/20/21 13:58 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 10073  | 10/21/21 09:49 | AM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 10053  | 10/21/21 15:41 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9775   | 10/18/21 14:38 | CA      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 10150  | 10/22/21 09:29 | CH      | XEN MID |

Lab Sample ID: 890-1436-5

Date Collected: 10/14/21 12:35 **Matrix: Solid** Date Received: 10/14/21 15:43

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 10082  | 10/21/21 13:00 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 10086  | 10/22/21 08:53 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 10147  | 10/22/21 12:42 | AJ      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 10003  | 10/20/21 13:58 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 10073  | 10/21/21 09:49 | AM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 10053  | 10/21/21 16:00 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9775   | 10/18/21 14:38 | CA      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 10150  | 10/22/21 09:36 | CH      | XEN MID |

Client Sample ID: PH03A Lab Sample ID: 890-1436-6

Date Collected: 10/14/21 12:38 **Matrix: Solid** Date Received: 10/14/21 15:43

|           | Batch    | Batch       |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method      | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |          | 10082  | 10/21/21 13:00 | KL      | XEN MID |
| Total/NA  | Analysis | 8021B       |     | 1        | 10086  | 10/22/21 09:14 | KL      | XEN MID |
| Total/NA  | Analysis | Total BTEX  |     | 1        | 10147  | 10/22/21 12:42 | AJ      | XEN MID |
| Total/NA  | Analysis | 8015 NM     |     | 1        | 10003  | 10/20/21 13:58 | AJ      | XEN MID |
| Total/NA  | Prep     | 8015NM Prep |     |          | 10073  | 10/21/21 09:49 | AM      | XEN MID |
| Total/NA  | Analysis | 8015B NM    |     | 1        | 10053  | 10/21/21 16:20 | AJ      | XEN MID |
| Soluble   | Leach    | DI Leach    |     |          | 9775   | 10/18/21 14:38 | CA      | XEN MID |
| Soluble   | Analysis | 300.0       |     | 1        | 10150  | 10/22/21 09:43 | CH      | XEN MID |

### Laboratory References:

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

### **Accreditation/Certification Summary**

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

Total BTEX

### Laboratory: Eurofins Xenco, Midland

Total BTEX

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

| Authority                                     | P           | rogram                          | Identification Number                         | <b>Expiration Date</b>      |
|---|-------------|---------------------------------|---|-----------------------------|
| Texas   | N           | ELAP                            | T104704400-21-22                              | 06-30-22                    |
| The following analytes the agency does not of |             | ut the laboratory is not certif | fied by the governing authority. This list ma | y include analytes for whic |
| Analysis Method                               | Prep Method | Matrix                          | Analyte                                       |                             |
| 8015 NM                                       |             | Solid                           | Total TPH                                     |                             |

Solid

### **Method Summary**

Client: WSP USA Inc. Job ID: 890-1436-1 Project/Site: PLU 28 BS 901H SDG: 31403236.022.0129 Task 02.02

| 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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

### **Sample Summary**

Client: WSP USA Inc.

Project/Site: PLU 28 BS 901H

Job ID: 890-1436-1

SDG: 31403236.022.0129 Task 02.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1436-1    | PH01             | Solid  | 10/14/21 11:55 | 10/14/21 15:43 | 1     |
| 890-1436-2    | PH01A            | Solid  | 10/14/21 11:58 | 10/14/21 15:43 | 2     |
| 890-1436-3    | PH02             | Solid  | 10/14/21 12:18 | 10/14/21 15:43 | 1     |
| 890-1436-4    | PH02A            | Solid  | 10/14/21 12:21 | 10/14/21 15:43 | 2     |
| 890-1436-5    | PH03             | Solid  | 10/14/21 12:35 | 10/14/21 15:43 | 1     |
| 890-1436-6    | PH03A            | Solid  | 10/14/21 12:38 | 10/14/21 15:43 | 2     |

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Environment Testing America

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax 575-988-3199 **Chain of Custody Record** 

|  | Canada and |  |   |  |  | *************************************** |  | l                 |                  |                                | Name and Address |  |   |  |                                       |           |                     |                      |  |                   |                            |  |  |             |
|--|---|--|---|--|--|---|--|-------------------|------------------|--------------------------------|------------------|--|---|--|---------------------------------------|-----------|---------------------|----------------------|--|-------------------|----------------------------|--|--|-------------|
| Client Information (Sub Contract Lab)  | Sampler   |  |   | Lab PM<br>Krame                                    | <sub>Lab PM</sub><br>Kramer Jessica                      | 3                                       |  |                   |                  |                                |                  | amer   | Trackir                                 | Carrier Tracking No(s)   | Ý                                     |           |                     | COC No.              | ž  |                   |                            |  |  |             |
| Client Contact: Shipping/Receiving   | Phone   |  |   | E-Mail   | E-Mail   | or@pp                                   | in line  | 2017              | á                |                                | - (0             | State of Origin  | Origin                                  |  |                                       |           |                     | Page:                |  |                   |                            | -  |  | $\bot$      |
| Company Eurofins Xenco   |   |  |   |  | Accreditations Required (See r<br>NELAP - Louisiana, NEL | tions R                                 | equirec  | (See              | Tote)            | <sub>iote)</sub><br>AP - Texas |                  | - Accession of the contract of | *************************************** |  |                                       | l         | _                   | Job#:                | 126.1  |                   | No.                        |  | opposition of the state of the  |             |
| 1211 W Florida Ave   | Due Date Requested<br>10/20/2021  | 2  |   |  |  |   |  | ▶                 | nal              | nalvsis Requested              | RACI             | Det.   | ž                                       | THE PERSONNEL PROPERTY AND ADDRESS OF THE PERSONNEL PROPERTY AND ADDRE |                                       | l         | _                   | reser                | Preservation Codes   | odes              |                            | MONTHS IN  | DATE DATE OF THE PERSON NAMED IN   | 丄           |
| City<br>Midland  | TAT Requested (days):   | /s)·   |   |  |  |   | $\dashv$   | -1.               |                  |                                |                  | _ {  |   | $\dashv$   | 一                                     | $\neg$    |                     | B HCL                | · 품 「  | zz                |                            | ine  |  |             |
| State Zip:<br>TX 79701   | L   |  |   |  |  | TPH                                     |  |                   |                  |                                |                  |  |   |  |                                       |           |                     | m D C                | Zn Acetate Nitric Acid NaHSO4                                    | οσα               | AsNaO2<br>Na2O4S<br>Na2SO3 | Ö & Ö  |  |             |
| Phone:<br>432-704-5440(Tel)  | PO#:  |  |   |  | )  | D) Full                                 | ie   | _                 |                  |                                |                  |  |   |  |                                       |           |                     |                      | MeOH<br>Amchlor  |                   |                            | ¥ 03   |  |             |
| Email  | WO#:  |  |   |  |  | p (MO                                   | Chloric  |                   |                  |                                |                  |  |   |  |                                       |           |                     |                      | ce<br>DI Water   |                   |                            | yne<br>Vodeca  | Acetone MCAA   |             |
| Project Name:<br>PLU 28 BS 901H  | Project #:<br>89000004  |  |   |  | CONTRACTOR CONTRACTOR                                    | S_Pn                                    | ACH  |                   |                  |                                |                  |  |   |  |                                       |           |                     | L ED                 | EDTA<br>EDA  | νş                |                            | pH 4-5<br>other (specify)  | 5  |             |
| Site:  | SSOW#   |  |   |  |  | 015NM_                                  | D/DI LI  |                   | v                |                                |                  |  |   |  |                                       |           |                     | Other:               |  |                   |                            |  |  |             |
|  |   | Sample (   | Sample<br>Type<br>(C=comp,                          | Matrix<br>(W=water<br>S=solid,<br>O=waste/oil,     | ld Filkered<br>rform MS/N                                | 5MOD_NM/                                | 5MOD_Calo  | 1B/5035FP_        | al_BTEX_G        |                                |                  | ·····  | · · · · · · · · · · · · · · · · · · ·   |  | · · · · · · · · · · · · · · · · · · · |           | al Number           |                      |  |                   |                            |  |  |             |
| Comple Included - Chefu D (Lab II)   | Sample Date   |  | Preservation Code:                                  | ا ا  | VICEOUS BOOK   |   |  |                   | Тс               |                                |                  |  |   |  |                                       |           | ΧT                  |                      | Special Instructions/Note  | Insti             | ructio                     | ns/No  | Ť  |             |
| PH01 (890-1436-1)  | 10/14/21  | 11 55<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           |                     |                      |  |                   |                            |  |  |             |
| PH01A (890-1436-2)   | 10/14/21  | 11 58<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           | -                   |                      |  |                   |                            |  |  |             |
| PH02 (890-1436-3)  | 10/14/21  | 12 18<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           | ٠.                  |                      |  |                   |                            |  |  |             |
| PH02A (890-1436-4)   | 10/14/21  | 12 21<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           |                     |                      |  |                   |                            |  |  |             |
| PH03 (890-1436-5)  | 10/14/21  | 12 35<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           | ٠.                  |                      |  |                   |                            |  |  |             |
| PH03A (890-1436-6)   | 10/14/21  | 12 38<br>Mountain                                  |   | Solid  |  | ×                                       | ×  | ×                 | ×                |                                |                  |  |   |  |                                       |           |                     |                      |  |                   |                            |  |  |             |
|  |   |  |   |  |  |   |  | $\vdash \vdash$   |                  |                                |                  |  |   |  |                                       |           |                     |                      |  |                   |                            |  |  |             |
|  |   |  |   |  |  |   |  | -                 |                  |                                |                  |  | -                                       | -  |                                       |           |                     |                      |  |                   |                            |  |  |             |
| Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.  | places the ownership o<br>being analyzed the san<br>e signed Chain of Cust  | f method analyth nples must be shody attesting to: | e & accreditati<br>hipped back to<br>said complicar | on compliance<br>the Eurofins )<br>ice to Eurofins | upon ou<br>(enco LL<br>Xenco L                           | rt subco<br>C labor<br>LC.              | intract atory o  | aborat<br>r other | ories<br>instruc | This sations w                 | imple s          | hipme<br>rovide  | nt is fo                                | warde  | d unde                                | er chair  | 1-of-cu<br>tation : | stody<br>status s    | If the lab   | oratory<br>brough | does n                     | ot curre   | ntly<br>enco LL  | C           |
| Possible Hazard Identification Unconfirmed   |   |  |   |  | San  | Sample Disposal ( A                     | le Disposal (Af<br>Return To Client  | sal (/            | nt fee           | may _                          | be as            | assessed if san<br>Disposal By Lah   | dif                                     | amp  | les a                                 |           | taine               | tained long          | fee may be assessed if samples are retained longer than 1 month) | 7 1 m             | onth)                      | he   |  |             |
| Deliverable Requested   II   II   V Other (specify)  | Primary Deliverable Rank  | ble Rank 2   |   |  | Spe  | Special Instructions/C                  | struct   | ons/C             | C R              | ≀C Requirements                | ment             | s l  | ŀ                                       | l  | Ì                                     |           |                     |                      |  |                   |                            |  |  |             |
| Empty Kit Relinquished by  |   | Date   |   |  | Time   |   | resident de la constant de la consta |                   | September 1      | Samuel Street                  |                  | 3  | ethod                                   | Method of Shipment:  | ment:                                 | angere de |                     | ATMERICANICALISATION | WEED-STATESTICS COME.  |                   | Notice and Sections        |  | National Control of the Control of t | es constant |
| Relinquished by  | Date/Time   |  | 2 8   | Company  |  | $N \sim \Omega +$                       | No.  | 12                | 3                | 2                              | 17               |  |   |  | Date/Time                             | EI        |                     | 12                   |  |                   | Company                    |  |  |             |
| Relinquished by  | Date/Time:  |  | 3 8   | Company  | <u></u>  | Receive                                 | lived by   |                   |                  |                                |                  |  |   | Dat  | Date/Time                             |           | D                   | ス                    |  | -                 | Company                    | Y  |  |             |
| Commence of the Commence of th | Date/Ilme   |  | ဂ္ဂ   | Company  |  | Received by                             | d by   |                   |                  |                                |                  |  |   | Da   | Date/Time:                            |           |                     | -                    |  |                   | Company                    | ٧  |  |             |
| Custody Seals Intact. Custody Seal No A Yes A No   |   |  |   |  |  | Cooler Temperature(s)                   | empe   | ature(            |                  | °C and Other Remarks.          | er Rem           | arks.  |   |  |                                       |           | 50                  | <u> </u>             | $\lesssim$   | $\preceq$         |                            | The state of the s |  |             |
| E  |   |  |   |  | _  |   |  |                   |                  |                                |                  |  |   |  |                                       |           | ٤                   |                      | 7  |                   |                            |  |  | _           |

### **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1436-1

SDG Number: 31403236.022.0129 Task 02.02

Login Number: 1436 List Source: Eurofins Xenco, Carlsbad List Number: 1

Creator: Olivas, Nathaniel

| 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               | N/A    |         |

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10/22/2021

<6mm (1/4").

### **Login Sample Receipt Checklist**

Client: WSP USA Inc. Job Number: 890-1436-1

SDG Number: 31403236.022.0129 Task 02.02

List Source: Eurofins Xenco, Midland

List Creation: 10/18/21 08:10 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1436

| 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   | 0.5/0.6 |
| 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               | N/A    |         |

<6mm (1/4").

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

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 63206

### **CONDITIONS**

| Operator:              | OGRID:                                    |
|------------------------|---|
| XTO ENERGY, INC        | 5380                                      |
| 6401 Holiday Hill Road | Action Number:                            |
| Midland, TX 79707      | 63206                                     |
|                        | Action Type:                              |
|                        | [C-141] Release Corrective Action (C-141) |

### CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| chensley   | None      | 12/21/2021     |