

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 | NAPP2130054846 |
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|-------------------------|------------------------------|
| Responsible Party | OGRID |
| Contact Name | Contact Telephone |
| Contact email | Incident # (assigned by OCD) |
| Contact mailing address | |

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|-------------------------|----------------------|
| Site Name | Site Type |
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| | | | | |

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

Nature and Volume of Release

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

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

Cause of Release

| | |
|----------------|----------------|
| Incident ID | NAPP2130054846 |
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| Application ID | |

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

Initial Response

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

| | |
|--|------------------------|
| <input type="checkbox"/> The source of the release has been stopped. | |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. | |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. | |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| Printed Name: _____ | Title: _____ |
| Signature: <u>Adrian Baker</u> | Date: _____ |
| email: _____ | Telephone: _____ |
| <u>OCD Only</u> | |
| Received by: <u>Ramona Marcus</u> | Date: <u>11/1/2021</u> |

NAPP2130054846

| | | |
|--|------------------------------|---------|
| Location: | PLU 30 Big Sinks 105H | |
| Spill Date: | 10/24/2021 | |
| Area 1 | | |
| Approximate Area = | 39.30 | cu.ft. |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Frac Fluid = | 7.00 | bbls |
| Area 2 | | |
| Approximate Area = | 2990.00 | sq. ft. |
| Average Saturation (or depth) of spill = | 2.25 | inches |
| | | |
| Average Porosity Factor = | 0.03 | |
| | | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Frac Fluid = | 3.00 | bbls |
| | | |
| TOTAL VOLUME OF LEAK | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Frac Fluid = | 10.00 | bbls |
| TOTAL VOLUME RECOVERED | | |
| Total Crude Oil = | 0.00 | bbls |
| Total Frac Fluid = | 7.00 | bbls |

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

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

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

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

State of New Mexico
Oil Conservation Division

| | |
|----------------|----------------|
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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: Adrian Baker Date: 01/19/2022

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

OCD Only

Received by: _____ Date: _____

| | |
|----------------|----------------|
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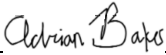
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health of the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Adrian Baker Title: Environmental Coordinator
Signature:  Date: 01/19/2022
Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

ODC Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 03/21/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



WSP USA

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

March 17, 2022

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

**RE: Closure Request
PLU 30 Big Sinks 105H
Incident Number NAPP2130054846
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, excavation, and soil sampling activities at the Poker Lake Unit (PLU) 30 Big Sinks 105H (Site) in Unit G, Section 30, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of hydraulic fracturing (frac) fluid at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2130054846.

Please note, this Closure Request is a resubmittal of the January 18, 2022, report with additional information regarding composition of the released frac fluid.

RELEASE BACKGROUND

On October 24, 2021, iron was washed out during frac operations, which resulted in the release of approximately 10 barrels (bbls) of frac fluid within the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 7 bbls of frac fluid were recovered from within the lined containment. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form (Form C-141) on October 27, 2021. The release was assigned Incident Number NAPP2130054846.

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



SITE CHARACTERIZATION

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 recent soil borings drilled for determination of regional groundwater depth. During February 2021, WSP installed a soil boring (C-04498) utilizing a truck-mounted auger drill rig approximately 1.7 miles west of the Site. Soil boring C-04498 was drilled to a depth of 109 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 borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at the borehole is greater than 109 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04498 is provided on Figure 1.

During April 2021, WSP installed a soil boring (C-04500) utilizing a truck-mounted auger drill rig approximately 1.4 miles east of the Site. Soil boring C-04500 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 borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at the borehole is greater than 110 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04500 is provided on Figure 1.

In addition, the nearest USGS well (USGS 320643103465002) is located 1.8 miles northeast of the Site with a reported depth to water of 400 feet bgs, measured in 2012. The location of USGS well 320643103465002 is provided on Figure 1 and the Well Record is included in Attachment 1. Although the data points listed above are greater than NMOCD's preferred 0.5-mile radius from the Site, the consistent presence of non-water bearing lithology observed in boreholes located to the west and east of the Site, and with water well data to the northeast of the Site indicating a depth to water of 400 feet bgs, WSP proposes the number and distribution of data points is sufficient to estimate depth to groundwater at the Site as greater than 100 feet bgs.

The closest continuously flowing water or significant watercourse to the Site is an intermittent riverine located approximately 2,714 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.



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 December 22, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent outside of the lined containment, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, and method of analysis and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary samples SS01 and SS02 indicated that chloride concentrations exceeded the Closure Criteria; benzene, BTEX, TPH-GRO/TPH-DRO, and TPH concentrations were compliant with the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES



On January 4, 2022, WSP personnel returned to the Site to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for preliminary soil samples SS01 and SS02.

Pothole PH01 was advanced via backhoe within the release extent to a depth of 4 feet bgs to assess the vertical extent of impacted soil. Two discrete delineation soil samples were collected from pothole PH01 at depths of 1-foot and 4 feet bgs. Soil from the pothole was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations were logged on a lithologic/soil sampling log, which is included in Attachment 2. The pothole and delineation soil sample locations are depicted on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico.

Excavation activities were completed to remove surficial staining in the release footprint and remove impacted soil in the area surrounding preliminary soil samples SS01 and SS02. Excavation activities were performed using a track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 1 foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation, from a depth of 1-foot bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

The excavation area measured approximately 645 square feet. A total of approximately 24 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from pothole PH01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

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Page 5

Laboratory analytical results for excavation floor samples FS01 through FS04, collected from the final excavation extent, 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 and excavation activities were conducted at the Site to address impacted soil resulting from the October 24, 2021 release of frac fluid. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NAPP2130054846.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads 'Hadlie Green'.

Hadlie Green
Assistant Consultant, Geologist

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

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

cc:

Adrian Baker, XTO
Bureau of Land Management

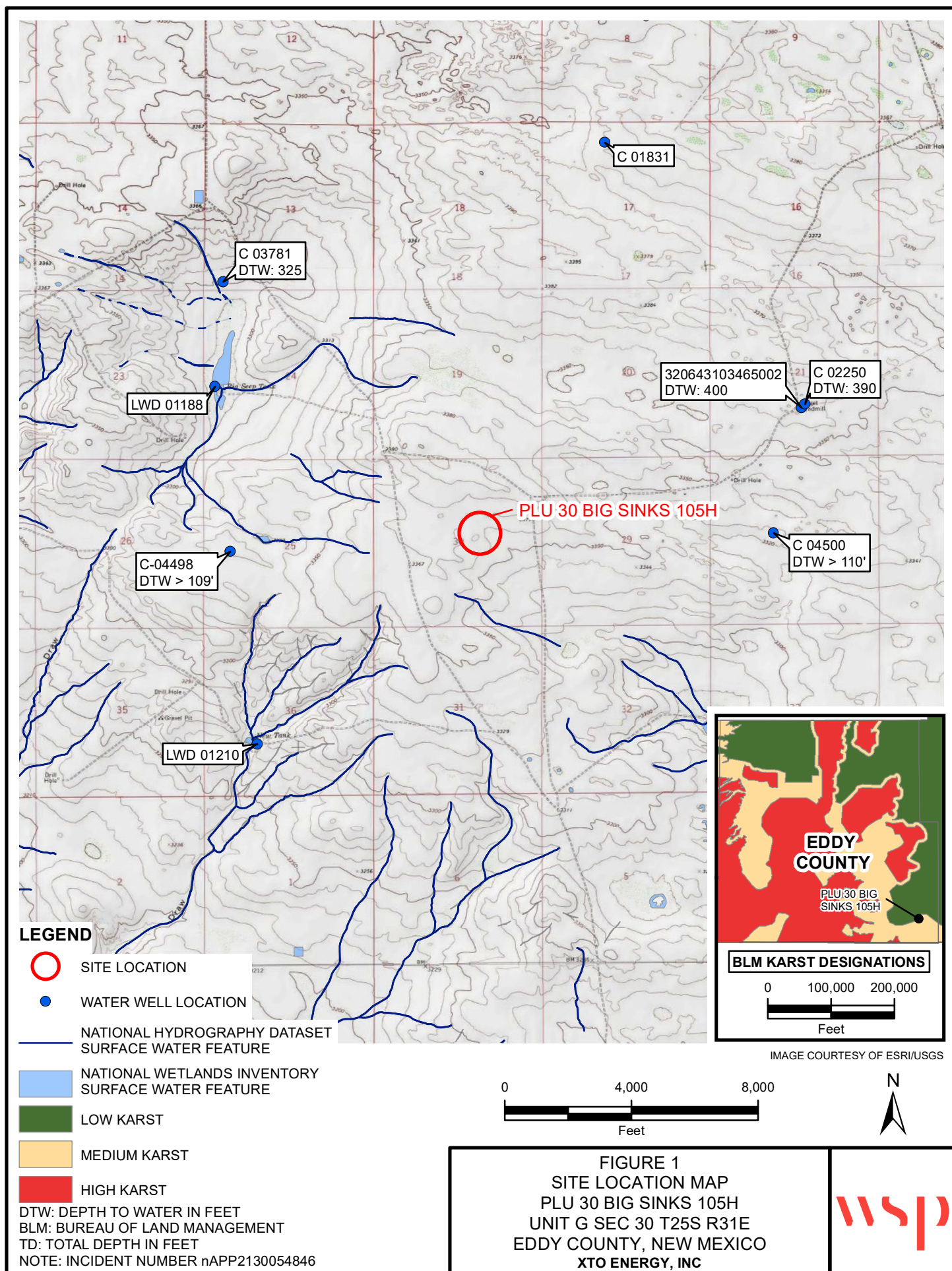


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Page 6

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/ Soil Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports
- Attachment 5 SDS for Friction Reducer

FIGURES



P:\XTO Energy\GIS\31403236.029.05_PLU 30 BS 105H\MXD\31403236.029.05_FIG01_SL_RECEPTOR_2021.mxd



IMAGE COURTESY OF ESRI

LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- LINED CONTAINMENT

NOTE: INCIDENT NUMBER nAPP2130054846
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

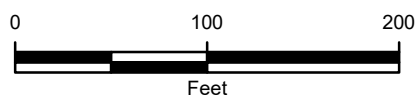


FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
 PLU 30 BIG SINKS 105H
 UNIT G SEC 30 T25S R31E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.






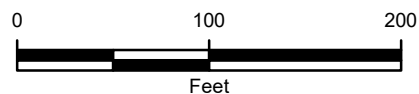
P:\XTO Energy\GIS\31403236.029.05_PLU 30 BS 105H\MXD\31403236.029.05_FIG02_PRELIMINARY_2022.mxd



IMAGE COURTESY OF ESRI

LEGEND

-  DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  RELEASE EXTENT
-  LINED CONTAINMENT



NOTE: INCIDENT NUMBER nAPP2130054846
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
PLU 30 BIG SINKS 105H
UNIT G SEC 30 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



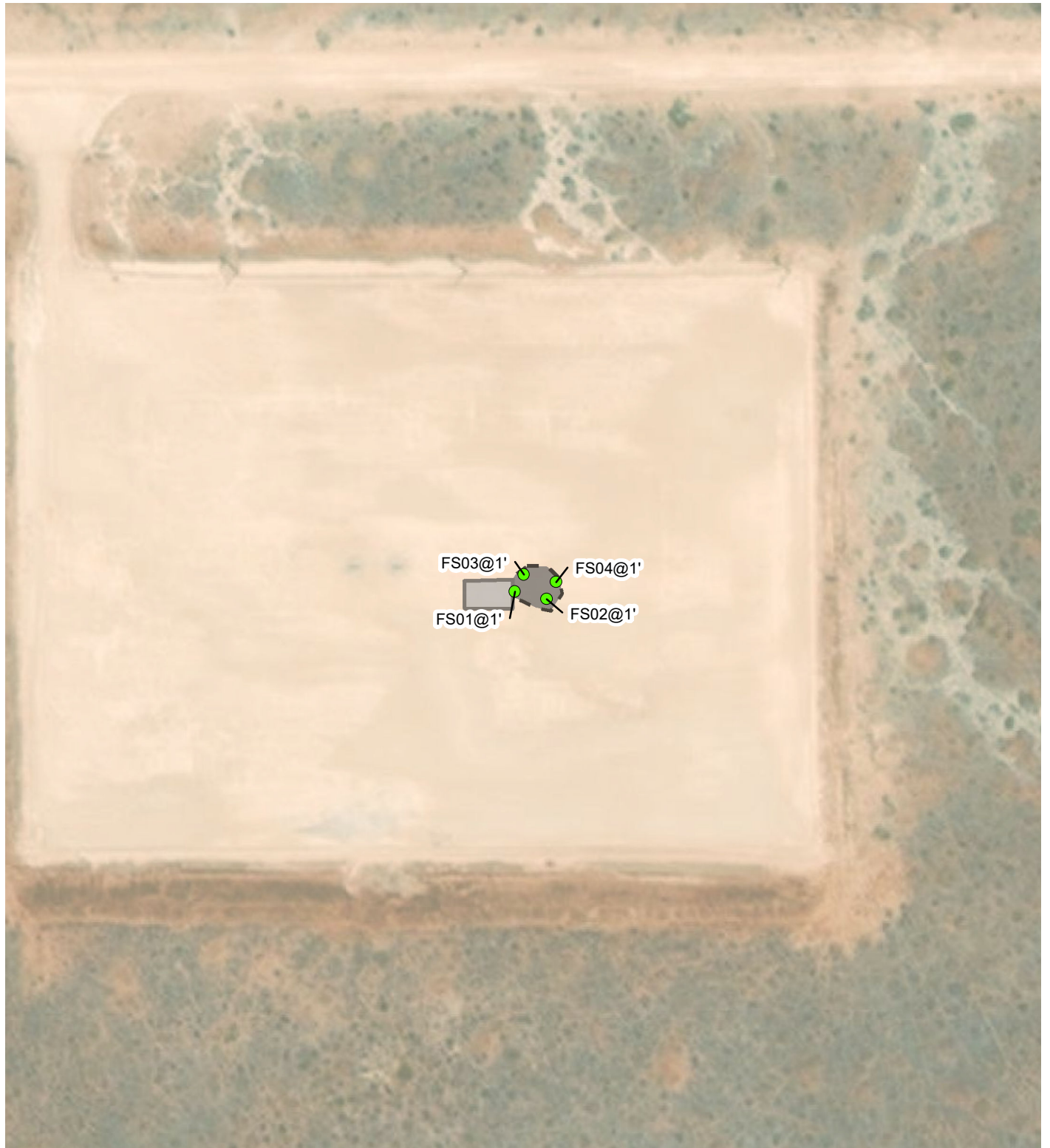





IMAGE COURTESY OF ESRI

LEGEND

-  FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  EXCAVATION EXTENT
-  LINED CONTAINMENT

NOTE: INCIDENT NUMBER nAPP2130054846
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

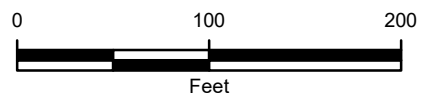


FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
PLU 30 BIG SINKS 105H
UNIT G SEC 30 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
 PLU 30 Big Sinks 105H
 Incident Number NAPP2130054846
 Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-DRO (mg/kg) | TPH-GRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Surface Samples | | | | | | | | | | |
| SS01 | 12/22/2021 | 0.5 | <0.00200 | <0.00399 | 64.4 | <49.9 | <49.9 | 64.4 | 64.4 | 33,900 |
| SS02 | 12/22/2021 | 0.5 | <0.00202 | <0.00404 | 204 | <50.0 | <50.0 | 204 | 204 | 27,200 |
| Delineation Soil Samples | | | | | | | | | | |
| PH01 | 01/04/2022 | 1 | <0.00199 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 518 |
| PH01A | 01/04/2022 | 4 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 229 |
| Excavation Floor Samples | | | | | | | | | | |
| FS01 | 01/04/2022 | 1 | <0.00198 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 556 |
| FS02 | 01/04/2022 | 1 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,230 |
| FS03 | 01/04/2022 | 1 | <0.00200 | <0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 246 |
| FS04 | 01/04/2022 | 1 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 559 |

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

| | |
|------|-----------------------------|
| Text | impacted soil was excavated |
|------|-----------------------------|

ATTACHMENT 1: REFERENCED WELL RECORD



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

USE ON MAR 11 2021 PM 4:22

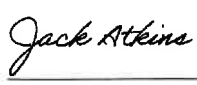
| | | | | | | | | |
|---|---|--------------------|--|--|---|--|---|--------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4498 | | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | |
| | WELL LOCATION (FROM GPS) | DEGREES 32° | MINUTES 6' | SECONDS 1.96" | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE -103° | 50' | 26.19" | W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 02/24/2021 | | DRILLING ENDED 02/24/2021 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 109 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 109 | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
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FOR OSE INTERNAL USE

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

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

DSE DJT MPR 11 2021 PM 4:22

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES/NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|---|---|---|---------------------|--|---|--|
| | FROM | TO | | | | |
| | 0 | 34 | 34 | Caliche, tan, no odor, no stain, gravel, dry | Y ✓ N | |
| | 34 | 40 | 6 | sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | |
| | 40 | 56 | 16 | sand, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | |
| | 56 | 72 | 16 | sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | |
| | 72 | 79 | 7 | sand, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | |
| | 79 | 109 | 30 | sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
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| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | |
| | MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist. | | | | | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div> | | | | | |

FOR OSE INTERNAL USE

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

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



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4498- POD1

Well owner: XTO ENERGY (Kyle Littrell)

Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge

4) Date well plugging began: 03/02/2021 Date well plugging concluded: 03/02/2021

5) GPS Well Location: Latitude: 32 deg, 6 min, 1.96 sec
Longitude: -103 deg, 50 min, 26.19 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 109 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 12/01/2020

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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

For each interval plugged, describe within the following columns:

| <u>Depth</u> (ft bgl) | <u>Plugging Material Used</u> (include any additives used) | <u>Volume of Material Placed</u> (gallons) | <u>Theoretical Volume of Borehole/ Casing</u> (gallons) | <u>Placement Method</u> (tremie pipe, other) | <u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.) |
|--------------------------|---|---|--|---|---|
| 0-10' | Hydrated Bentonite | Approx. 16 gallons | 16 gallons | Augers | |
| 10'-109' | Drill Cuttings | Approx. 171 gallons | 171 gallons | Boring | |

COPY
APPLICANT

USE DTJ MAR 11 2021 PM4:22

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

III. SIGNATURE:

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

Jack Atkins

Signature of Well Driller

03/11/2021

Date



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--|---|---------------------------|--|---|---|--|---|-----------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4500 | | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 6 | SECONDS 6.96 | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE 103 | 47 | 6.75 | W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 03/24/2021 | | DRILLING ENDED 03/24/2021 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 110 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | 0 110 | | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
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FOR OSE INTERNAL USE

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

FILE NO.


POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|---|---|---|---------------------|--|---|--|
| | FROM | TO | | | | |
| | 0 | 1 | 1 | Caliche, no odor, no stain, tan, light-brown | Y ✓ N | |
| | 1 | 3 | 2 | Sand, no odor, no stain, m-f, well sorted, brown, trace silt, low consolidation | Y ✓ N | |
| | 3 | 7 | 4 | Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive | Y ✓ N | |
| | 7 | 23 | 16 | Caliche, tan, light brown sand, m-f grained, poorly sorted, low consolidation | Y ✓ N | |
| | 23 | 110 | 87 | sand, brown, no odor, no stain, fine grained, well sorted, low consolidation | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
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| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | |
| | MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist. | | | | | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div> | | | | | |

FOR OSE INTERNAL USE

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

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



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4500- POD1

Well owner: XTO ENERGY (Kyle Littrell)

Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland

State: Texas

Zip code: 79707

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge

4) Date well plugging began: 04/27/2021 Date well plugging concluded: 04/27/2021

5) GPS Well Location: Latitude: 32 deg, 6 min, 6.96 sec
Longitude: 103 deg, 47 min, 6.75 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl),
by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 12/01/2020

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

USE OF 4/5/2021 06:30

- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

Jack Atkins

05/05/2021

Signature of Well Driller

Date _____

Released to Imaging: 3/21/2022 9:59:11 AM



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[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320643103465002

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320643103465002 25S.31E.21.413314A

Available data for this site

Groundwater: Field measurements



GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

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

Land-surface elevation 3,374.00 feet above NGVD29

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

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

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

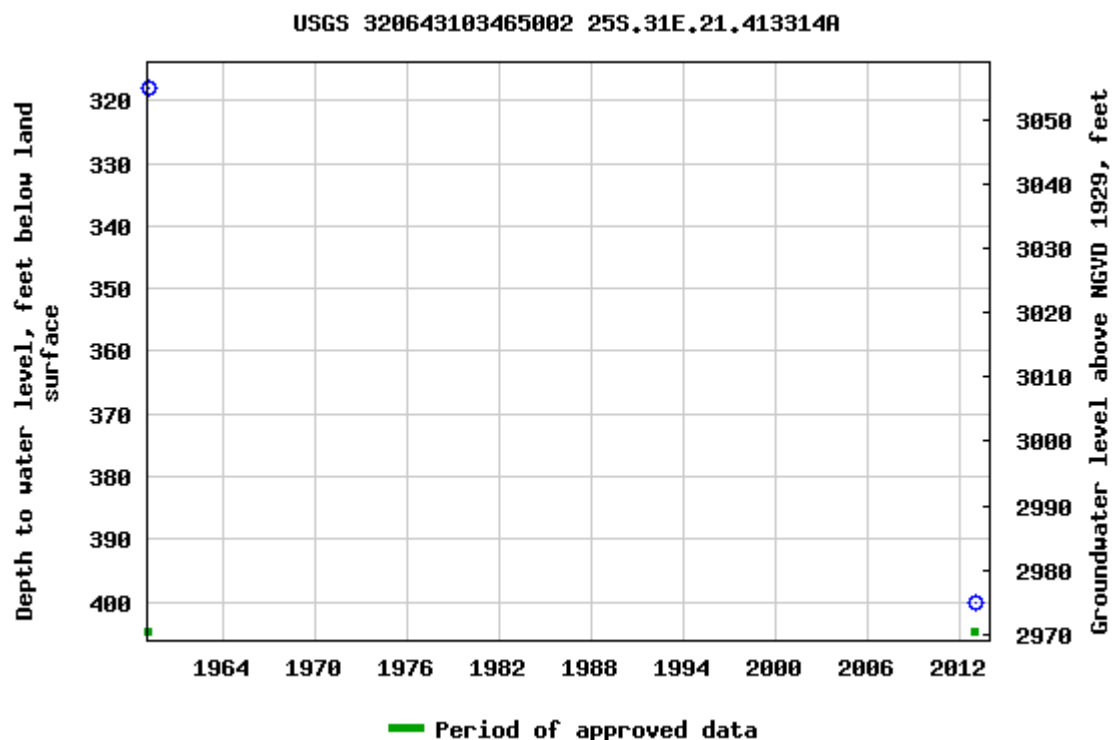
Output formats

[Table of data](#)

[Tab-separated data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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




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

Page Last Modified: 2021-12-06 15:54:16 EST

0.57 0.51 nadww02


ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

|  WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 | | BH or PH Name: PH01 | | Date: 01/04/2022 | | | | |
|---|----------------|---------------------------------------|----------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: PLU 30 Big Sinks 105H | | | | | | |
| | | RP or Incident Number: NAPP2130054846 | | | | | | |
| | | WSP Job Number: 31403236.029 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Lat/Long: 32.102159, -103.814976 | | Field Screening: Chloride, PID | | Logged By: PB | | | | |
| | | | | Method: BACKHOE | | | | |
| Hole Diameter: N/A | | | | | | | | |
| Total Depth: 4' | | | | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
| | | | | | | 0 | | |
| M | 577 | 0.9 | N | PH01 | 1 | 1 | SP-SM | SAND, MOIST, BROWN, FINE GRAINED, WELL SORTED, ABUNDANT SILT AND CLAY, POORLY GRADED, NO S/O |
| M | <162.4 | 0.0 | N | | | 2 | SP-SM | SAA |
| M | <162.4 | 0.0 | N | | | 3 | SP-SM | SAA |
| M | 520.8 | 0.0 | N | PH01A | 4 | 4 | SP-SC | SAA, BUT ABUNDANT CALICHE GRAVEL |
| TD @ 4 ft bgs | | | | | | | | |

ATTACHMENT 3: PHOTOGRAPHIC LOG



| PHOTOGRAPHIC LOG | | |
|------------------|--|----------------|
| XTO Energy, Inc. | PLU 30 Big Sinks 105H Eddy County, NM | NAPP2130054846 |

| Photo No. | Date | |
|-------------------------------------|----------------------|---|
| 1 | December 22, 2021 | |
| East facing view of release extent. | |  |

| Photo No. | Date | |
|--|----------------------|--|
| 2 | December 22, 2021 | |
| West facing view of release extent to the east of infrastructure. | |  |



| PHOTOGRAPHIC LOG | | |
|------------------|--|----------------|
| XTO Energy, Inc. | PLU 30 Big Sinks 105H Eddy County, NM | NAPP2130054846 |

| Photo No. | Date |  |
|--|-----------------|---|
| 3 | January 4, 2022 | |
| Southeast view of excavation extent to the east of infrastructure. | | |

| Photo No. | Date |  |
|--|-----------------|--|
| 4 | January 4, 2022 | |
| West facing view of excavation extent to the east of infrastructure. | | |

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1751-1

Laboratory Sample Delivery Group: 31403236.029

Client Project/Site: PLU 30 BS 105H

For:

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

Attn: Benjamin Belill

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

Authorized for release by:
12/31/2021 10:32:20 AM

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

LINKS

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results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Laboratory Job ID: 890-1751-1
SDG: 31403236.029

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Job ID: 890-1751-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1751-1****Receipt**

The samples were received on 12/23/2021 9:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-15714/21), (CCV 880-15714/34), (LCS 880-15693/1-A), (LCSD 880-15693/2-A) and (880-9683-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15693 and analytical batch 880-15714 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 laboratory control sample (LCS) associated with preparation batch 880-15659 and analytical batch 880-15677 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Client Sample ID: SS01

Lab Sample ID: 890-1751-1

Date Collected: 12/22/21 15:15

Matrix: Solid

Date Received: 12/23/21 09:57

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 126 | | 70 - 130 | 12/29/21 08:23 | 12/30/21 04:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | 12/29/21 08:23 | 12/30/21 04:22 | 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 | | | 12/30/21 10:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 64.4 | | 49.9 | mg/Kg | | | 12/30/21 10:33 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 | 49.9 | mg/Kg | | 12/28/21 13:53 | 12/29/21 11:07 | 1 |
| Diesel Range Organics (Over C10-C28) | 64.4 | F1 *+ | 49.9 | mg/Kg | | 12/28/21 13:53 | 12/29/21 11:07 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/28/21 13:53 | 12/29/21 11:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 104 | | 70 - 130 | 12/28/21 13:53 | 12/29/21 11:07 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | 12/28/21 13:53 | 12/29/21 11:07 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 33900 | F1 | 249 | mg/Kg | | | 12/31/21 00:16 | 50 |

Client Sample ID: SS02

Lab Sample ID: 890-1751-2

Date Collected: 12/22/21 15:18

Matrix: Solid

Date Received: 12/23/21 09:57

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 12/29/21 08:23 | 12/30/21 04:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 133 | S1+ | 70 - 130 | 12/29/21 08:23 | 12/30/21 04:42 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Client Sample ID: SS02

Lab Sample ID: 890-1751-2

Date Collected: 12/22/21 15:18

Matrix: Solid

Date Received: 12/23/21 09:57

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 12/29/21 08:23 | 12/30/21 04:42 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 12/30/21 10:20 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 204 | | 50.0 | mg/Kg | | | 12/30/21 10:33 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 12:10 | 1 |
| Diesel Range Organics (Over C10-C28) | 204 | *+ | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 12:10 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 12:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 120 | | 70 - 130 | | | 12/28/21 13:53 | 12/29/21 12:10 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | 12/28/21 13:53 | 12/29/21 12:10 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 27200 | | 251 | mg/Kg | | | 12/31/21 00:52 | 50 |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-9683-A-1-A MS | Matrix Spike | 132 S1+ | 73 |
| 880-9683-A-1-B MSD | Matrix Spike Duplicate | 108 | 95 |
| 890-1751-1 | SS01 | 126 | 106 |
| 890-1751-2 | SS02 | 133 S1+ | 103 |
| LCS 880-15693/1-A | Lab Control Sample | 99 | 96 |
| LCSD 880-15693/2-A | Lab Control Sample Dup | 146 S1+ | 109 |
| MB 880-15651/5-A | Method Blank | 104 | 102 |
| MB 880-15693/5-A | Method Blank | 117 | 105 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1751-1 | SS01 | 104 | 104 |
| 890-1751-1 MS | SS01 | 110 | 93 |
| 890-1751-1 MSD | SS01 | 110 | 93 |
| 890-1751-2 | SS02 | 120 | 118 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO2 (70-130) | OTPH2 (70-130) |
| LCS 880-15659/2-A | Lab Control Sample | 100 | 96 |
| LCSD 880-15659/3-A | Lab Control Sample Dup | 121 | 123 |
| MB 880-15659/1-A | Method Blank | 102 | 105 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15651/5-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15651

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/28/21 13:02 | 12/29/21 12:43 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | 12/28/21 13:02 | 12/29/21 12:43 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 12/28/21 13:02 | 12/29/21 12:43 | 1 |

Lab Sample ID: MB 880-15693/5-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15693

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/29/21 08:23 | 12/29/21 23:35 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 12/29/21 08:23 | 12/29/21 23:35 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 12/29/21 08:23 | 12/29/21 23:35 | 1 |

Lab Sample ID: LCS 880-15693/1-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15693

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

Lab Sample ID: LCSD 880-15693/2-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15693

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene | 0.100 | 0.07766 | | mg/Kg | | 78 | 70 - 130 | NaN | 35 |
| Toluene | 0.100 | 0.07298 | | mg/Kg | | 73 | 70 - 130 | NaN | 35 |
| Ethylbenzene | 0.100 | 0.09873 | | mg/Kg | | 99 | 70 - 130 | NaN | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1998 | | mg/Kg | | 100 | 70 - 130 | NaN | 35 |
| o-Xylene | 0.100 | 0.1009 | | mg/Kg | | 101 | 70 - 130 | NaN | 35 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

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

Lab Sample ID: LCSD 880-15693/2-A

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15693

| | LCSD | LCSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 146 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 |

Lab Sample ID: 880-9683-A-1-A MS

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15693

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U F2 F1 | 0.0996 | 0.03709 | F1 | mg/Kg | | 37 | 70 - 130 | |
| Toluene | <0.00199 | U F1 | 0.0996 | 0.05151 | F1 | mg/Kg | | 52 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U F1 | 0.0996 | 0.05531 | F1 | mg/Kg | | 56 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.199 | 0.1246 | F1 | mg/Kg | | 63 | 70 - 130 | |
| o-Xylene | <0.00199 | U F1 | 0.0996 | 0.06210 | F1 | mg/Kg | | 62 | 70 - 130 | |

| | MS | MS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 132 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 73 | | 70 - 130 |

Lab Sample ID: 880-9683-A-1-B MSD

Matrix: Solid

Analysis Batch: 15714

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15693

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD | |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | <0.00199 | U F2 F1 | 0.0998 | 0.06682 | F2 F1 | mg/Kg | | 67 | 70 - 130 | 57 | 35 | |
| Toluene | <0.00199 | U F1 | 0.0998 | 0.06868 | F1 | mg/Kg | | 69 | 70 - 130 | 29 | 35 | |
| Ethylbenzene | <0.00199 | U F1 | 0.0998 | 0.06890 | F1 | mg/Kg | | 69 | 70 - 130 | 22 | 35 | |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.200 | 0.1420 | | mg/Kg | | 71 | 70 - 130 | 13 | 35 | |
| o-Xylene | <0.00199 | U F1 | 0.0998 | 0.07328 | | mg/Kg | | 73 | 70 - 130 | 17 | 35 | |

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 |

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

Lab Sample ID: MB 880-15659/1-A

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15659

| | MB | MB | | | | | | | | |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 10:02 | 1 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 10:02 | 1 | | |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/28/21 13:53 | 12/29/21 10:02 | 1 | | |

| | MB | MB | | | | | | | | |
|----------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| 1-Chlorooctane | 102 | | 70 - 130 | 12/28/21 13:53 | 12/29/21 10:02 | 1 | | | | |

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

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

Lab Sample ID: MB 880-15659/1-A

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15659

| | MB | MB | | | | | | | | |
|---------------------|-----------|-----------|----------|----------------|----------------|-----|-----|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil | Fac | | | |
| <i>o</i> -Terphenyl | 105 | | 70 - 130 | 12/28/21 13:53 | 12/29/21 10:02 | 1 | | | | |

Lab Sample ID: LCS 880-15659/2-A

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15659

| | | | Spike | LCS | LCS | | | | %Rec. | | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1088 | | mg/Kg | | 109 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1110 | | mg/Kg | | 111 | 70 - 130 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 100 | | 70 - 130 | | | | | | | | |
| <i>o</i> -Terphenyl | 96 | | 70 - 130 | | | | | | | | |

Lab Sample ID: LCSD 880-15659/3-A

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15659

| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1188 | | mg/Kg | | 119 | 70 - 130 | 9 | 20 | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1311 | *+ | mg/Kg | | 131 | 70 - 130 | 17 | 20 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 121 | | 70 - 130 | | | | | | | | | |
| <i>o</i> -Terphenyl | 123 | | 70 - 130 | | | | | | | | | |

Lab Sample ID: 890-1751-1 MS

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 15659

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 | 1990 | 2008 | | mg/Kg | | 101 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 64.4 | F1 *+ | 1990 | 1989 | | mg/Kg | | 97 | 70 - 130 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | | | |
| <i>o</i> -Terphenyl | 93 | | 70 - 130 | | | | | | | | |

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

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

Lab Sample ID: 890-1751-1 MSD

Matrix: Solid

Analysis Batch: 15677

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 15659

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U F1 | 2000 | 2003 | | mg/Kg | | 100 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | 64.4 | F1 *+ | 2000 | 1983 | | mg/Kg | | 96 | 70 - 130 | 0 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 93 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15694/1-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/30/21 23:40 | 1 |

Lab Sample ID: LCS 880-15694/2-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-15694/3-A

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 260.1 | | mg/Kg | | 104 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-1751-1 MS

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: SS01

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 33900 | F1 | 12500 | 44650 | F1 | mg/Kg | | 86 | 90 - 110 |

Lab Sample ID: 890-1751-1 MSD

Matrix: Solid

Analysis Batch: 15818

Client Sample ID: SS01

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 33900 | F1 | 12500 | 45280 | | mg/Kg | | 91 | 90 - 110 | 1 | 20 |

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

GC VOA

Prep Batch: 15651

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-15651/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 15693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-1751-2 | SS02 | Total/NA | Solid | 5035 | |
| MB 880-15693/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-15693/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-15693/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9683-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-9683-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 15714

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | 8021B | 15693 |
| 890-1751-2 | SS02 | Total/NA | Solid | 8021B | 15693 |
| MB 880-15651/5-A | Method Blank | Total/NA | Solid | 8021B | 15651 |
| MB 880-15693/5-A | Method Blank | Total/NA | Solid | 8021B | 15693 |
| LCS 880-15693/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 15693 |
| LCSD 880-15693/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 15693 |
| 880-9683-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 15693 |
| 880-9683-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 15693 |

Analysis Batch: 15797

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-1751-2 | SS02 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 15659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1751-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-15659/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-15659/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-15659/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1751-1 MS | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1751-1 MSD | SS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 15677

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | 8015B NM | 15659 |
| 890-1751-2 | SS02 | Total/NA | Solid | 8015B NM | 15659 |
| MB 880-15659/1-A | Method Blank | Total/NA | Solid | 8015B NM | 15659 |
| LCS 880-15659/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 15659 |
| LCSD 880-15659/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 15659 |
| 890-1751-1 MS | SS01 | Total/NA | Solid | 8015B NM | 15659 |
| 890-1751-1 MSD | SS01 | Total/NA | Solid | 8015B NM | 15659 |

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

GC Semi VOA

Analysis Batch: 15798

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1751-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-1751-2 | SS02 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 15694

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1751-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-1751-2 | SS02 | Soluble | Solid | DI Leach | |
| MB 880-15694/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-15694/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-15694/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-1751-1 MS | SS01 | Soluble | Solid | DI Leach | |
| 890-1751-1 MSD | SS01 | Soluble | Solid | DI Leach | |

Analysis Batch: 15818

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1751-1 | SS01 | Soluble | Solid | 300.0 | 15694 |
| 890-1751-2 | SS02 | Soluble | Solid | 300.0 | 15694 |
| MB 880-15694/1-A | Method Blank | Soluble | Solid | 300.0 | 15694 |
| LCS 880-15694/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 15694 |
| LCSD 880-15694/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 15694 |
| 890-1751-1 MS | SS01 | Soluble | Solid | 300.0 | 15694 |
| 890-1751-1 MSD | SS01 | Soluble | Solid | 300.0 | 15694 |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Client Sample ID: SS01

Lab Sample ID: 890-1751-1

Date Collected: 12/22/21 15:15

Matrix: Solid

Date Received: 12/23/21 09:57

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 15693 | 12/29/21 08:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 15714 | 12/30/21 04:22 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 15797 | 12/30/21 10:20 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 15798 | 12/30/21 10:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 15659 | 12/28/21 13:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 15677 | 12/29/21 11:07 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 15694 | 12/29/21 08:26 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | 15818 | 12/31/21 00:16 | CH | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 890-1751-2

Date Collected: 12/22/21 15:18

Matrix: Solid

Date Received: 12/23/21 09:57

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 15693 | 12/29/21 08:23 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 15714 | 12/30/21 04:42 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 15797 | 12/30/21 10:20 | AJ | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 15798 | 12/30/21 10:33 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 15659 | 12/28/21 13:53 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 15677 | 12/29/21 12:10 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 15694 | 12/29/21 08:26 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | 15818 | 12/31/21 00:52 | 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.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

Laboratory: Eurofins Xenco, Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

| 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 30 BS 105H

Job ID: 890-1751-1
SDG: 31403236.029

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1751-1 | SS01 | Solid | 12/22/21 15:15 | 12/23/21 09:57 | 0.5 |
| 890-1751-2 | SS02 | Solid | 12/22/21 15:18 | 12/23/21 09:57 | 0.5 |

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



Chain of Custody

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

Work Order No: _____

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Page 1 of 1

| | | | |
|------------------|---------------------|-------------------------|---|
| Project Manager: | Ben Bell | Bill to: (if different) | Adrian Baker |
| Company Name: | WSP | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 989-854-0852 | Email: | Gilbert.Moreno@wsp.com, Adrian.Baker@exxonmobil.com |

| | |
|---|---|
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> | |
| State of Project: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> | |
| Reporting Level: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> | Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |

ANALYSIS REQUEST

Work Order Notes

| | | | |
|-----------------|----------------|-------------|-------------------------------------|
| Project Name: | PLU 30 BS 105H | Turn Around | <input checked="" type="checkbox"/> |
| Project Number: | 31403236.029 | Routine | <input checked="" type="checkbox"/> |
| P.O. Number: | | Rush: | <input type="checkbox"/> |
| Sampler's Name: | Gilbert Moreno | Due Date: | |

| | | | | |
|-----------------------|---|---|----------|---|
| SAMPLE RECEIPT | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Temperature (°C): | 2.4/2.2 | Thermometer ID | 70W-007 | |
| Received In tact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | -0.2 | |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Total Containers: | 1 | |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |



890-1751 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | Analysis Requested | Work Order Notes |
|---|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|--------------------|------------------|
| SS01 | S | 12.22.21 | 15:15 | 0.5 | 1 | X | X | X | | |
| SS02 | S | 12.22.22 | 15:18 | 0.5 | 1 | X | X | X | | |
| <i>[Handwritten signature across the table]</i> | | | | | | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 . Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 12.23.21 0957 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1751-1

SDG Number: 31403236.029

Login Number: 1751

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1751-1

SDG Number: 31403236.029

Login Number: 1751

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

List Creation: 12/28/21 10:39 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1797-1

Laboratory Sample Delivery Group: 31403236.029 TASK 05.02

Client Project/Site: PLU 30 BS 105H

For:

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

Attn: Benjamin Belill

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

Authorized for release by:
1/10/2022 12:07:40 PM

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

LINKS

Review your project
results through

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Laboratory Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *1 | LCS/LCSD RPD exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Job ID: 890-1797-1**Laboratory: Eurofins Xenco****Narrative****Job Narrative
890-1797-1****Receipt**

The samples were received on 1/4/2022 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method Total_BTEX_GCV: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16093 and analytical batch 880-16114 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 880-16142 and analytical batch 880-16117 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16090 and analytical batch 880-16214 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: PH01

Lab Sample ID: 890-1797-1

Date Collected: 01/04/22 09:14

Matrix: Solid

Date Received: 01/04/22 15:48

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 | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 204 | S1+ | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 01/10/22 12:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 16:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 16:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 16:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 69 | S1- | 70 - 130 | 01/06/22 12:43 | 01/06/22 16:58 | 1 |
| o-Terphenyl | 81 | | 70 - 130 | 01/06/22 12:43 | 01/06/22 16:58 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 518 | | 5.05 | mg/Kg | | | 01/06/22 21:43 | 1 |

Client Sample ID: PH01A

Lab Sample ID: 890-1797-2

Date Collected: 01/04/22 09:20

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 189 | S1+ | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:30 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: PH01A

Lab Sample ID: 890-1797-2

Date Collected: 01/04/22 09:20

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 4

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:30 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/10/22 12:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 80 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 18:00 | 1 |
| o-Terphenyl | 95 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 18:00 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 229 | | 4.98 | mg/Kg | | | 01/06/22 22:06 | 1 |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1797-1 | PH01 | 204 S1+ | 89 |
| 890-1797-2 | PH01A | 189 S1+ | 98 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

Method: Total BTEX - Total BTEX Calculation

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|------|
| Lab Sample ID | Client Sample ID | BFB | DFBZ |
| 880-9879-A-1-B MS | Matrix Spike | | |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | | |
| LCS 880-16093/1-A | Lab Control Sample | | |
| LCSD 880-16093/2-A | Lab Control Sample Dup | | |
| MB 880-16093/5-A | Method Blank | | |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1797-1 | PH01 | 69 S1- | 81 |
| 890-1797-1 MS | PH01 | 77 | 83 |
| 890-1797-1 MSD | PH01 | 77 | 81 |
| 890-1797-2 | PH01A | 80 | 95 |
| LCS 880-16142/2-A | Lab Control Sample | 104 | 107 |
| LCSD 880-16142/3-A | Lab Control Sample Dup | 110 | 119 |
| MB 880-16142/1-A | Method Blank | 74 | 85 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: LCS 880-16093/1-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: LCSD 880-16093/2-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: 880-9879-A-1-B MS

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: 880-9879-A-1-C MSD

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16093

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

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

Lab Sample ID: MB 880-16142/1-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 74 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| o-Terphenyl | 85 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

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

Lab Sample ID: LCS 880-16142/2-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|------------------|----------------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 773.3 | | mg/Kg | | 77 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 895.8 | | mg/Kg | | 90 | 70 - 130 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | |
| o-Terphenyl | 107 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-16142/3-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|--------------------------------------|------------------|-----------------------|----------------|-------|---|------|--------------|-----|-------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 917.7 | | mg/Kg | | 92 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1151 | *1 | mg/Kg | | 115 | 70 - 130 | 25 | 20 |
| Surrogate | %Recovery | LCSD Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | |
| o-Terphenyl | 119 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-1797-1 MS

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------------------|------------------|---------------------|---------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 735.3 | | mg/Kg | | 74 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 996 | 897.9 | | mg/Kg | | 87 | 70 - 130 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | | | |
| o-Terphenyl | 83 | | 70 - 130 | | | | | | |

Lab Sample ID: 890-1797-1 MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|--------------------------------------|------------------|----------------------|---------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 766.8 | | mg/Kg | | 77 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 999 | 884.4 | | mg/Kg | | 85 | 70 - 130 | 2 | 20 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | | | | | |

Eurofins Xenco

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

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

Lab Sample ID: 890-1797-1 MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 16142

| | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| <i>o</i> -Terphenyl | 81 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16090/1-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Method Blank

Prep Type: Soluble

| | MB | MB | | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|-----|-----|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil | Fac |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 01/06/22 20:32 | | 1 |

Lab Sample ID: LCS 880-16090/2-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| | | | Spike | LCS | LCS | | | | %Rec. |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | | | 250 | 234.1 | | mg/Kg | | 94 | 90 - 110 |

Lab Sample ID: LCSD 880-16090/3-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | | | 250 | 238.8 | | mg/Kg | | 96 | 90 - 110 | 2 | 20 |

Lab Sample ID: 880-9872-A-14-D MS

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Matrix Spike

Prep Type: Soluble

| | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | 16200 | F1 | 4990 | 20290 | F1 | mg/Kg | | 83 | 90 - 110 |

Lab Sample ID: 880-9872-A-14-E MSD

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 16200 | F1 | 4990 | 19750 | F1 | mg/Kg | | 72 | 90 - 110 | 3 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

GC VOA

Prep Batch: 16093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | 5035 | |
| 890-1797-2 | PH01A | Total/NA | Solid | 5035 | |
| MB 880-16093/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-16093/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-16093/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9879-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 16114

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | 8021B | 16093 |
| 890-1797-2 | PH01A | Total/NA | Solid | 8021B | 16093 |
| MB 880-16093/5-A | Method Blank | Total/NA | Solid | Total BTEX | 16093 |
| LCS 880-16093/1-A | Lab Control Sample | Total/NA | Solid | Total BTEX | 16093 |
| LCSD 880-16093/2-A | Lab Control Sample Dup | Total/NA | Solid | Total BTEX | 16093 |
| 880-9879-A-1-B MS | Matrix Spike | Total/NA | Solid | Total BTEX | 16093 |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | Total BTEX | 16093 |

Analysis Batch: 16207

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-1797-2 | PH01A | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 16117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | 8015B NM | 16142 |
| 890-1797-2 | PH01A | Total/NA | Solid | 8015B NM | 16142 |
| MB 880-16142/1-A | Method Blank | Total/NA | Solid | 8015B NM | 16142 |
| LCS 880-16142/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 16142 |
| LCSD 880-16142/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 16142 |
| 890-1797-1 MS | PH01 | Total/NA | Solid | 8015B NM | 16142 |
| 890-1797-1 MSD | PH01 | Total/NA | Solid | 8015B NM | 16142 |

Prep Batch: 16142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1797-2 | PH01A | Total/NA | Solid | 8015NM Prep | |
| MB 880-16142/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-16142/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-16142/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1797-1 MS | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-1797-1 MSD | PH01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 16428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1797-1 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-1797-2 | PH01A | Total/NA | Solid | 8015 NM | |

Eurofins Xenco

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

HPLC/IC

Leach Batch: 16090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1797-1 | PH01 | Soluble | Solid | DI Leach | |
| 890-1797-2 | PH01A | Soluble | Solid | DI Leach | |
| MB 880-16090/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-16090/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-16090/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9872-A-14-D MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-9872-A-14-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 16214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1797-1 | PH01 | Soluble | Solid | 300.0 | 16090 |
| 890-1797-2 | PH01A | Soluble | Solid | 300.0 | 16090 |
| MB 880-16090/1-A | Method Blank | Soluble | Solid | 300.0 | 16090 |
| LCS 880-16090/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 16090 |
| LCSD 880-16090/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 16090 |
| 880-9872-A-14-D MS | Matrix Spike | Soluble | Solid | 300.0 | 16090 |
| 880-9872-A-14-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 16090 |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: PH01

Lab Sample ID: 890-1797-1

Date Collected: 01/04/22 09:14

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 19:03 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 16:58 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 21:43 | CH | XEN MID |

Client Sample ID: PH01A

Lab Sample ID: 890-1797-2

Date Collected: 01/04/22 09:20

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 19:30 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 18:00 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 22:06 | CH | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

Laboratory: Eurofins Xenco

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1797-1
SDG: 31403236.029 TASK 05.02

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1797-1 | PH01 | Solid | 01/04/22 09:14 | 01/04/22 15:48 | 1 |
| 890-1797-2 | PH01A | Solid | 01/04/22 09:20 | 01/04/22 15:48 | 4 |

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- 11
- 12
- 13
- 14



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-988-8888)
Albuquerque, NM (505-392-7550)

Chain of Custody

Work Order No.:

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

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1797-1

SDG Number: 31403236.029 TASK 05.02

Login Number: 1797

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco

| 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: 890-1797-1

SDG Number: 31403236.029 TASK 05.02

Login Number: 1797

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco

List Creation: 01/06/22 11:57 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1798-1

Laboratory Sample Delivery Group: 31403236.029 TASK 05.02

Client Project/Site: PLU 30 BS 105H

For:

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

Attn: Benjamin Belill

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

Authorized for release by:
1/10/2022 12:08:13 PM

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

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Laboratory Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Job ID: 890-1798-1**Laboratory: Eurofins Xenco****Narrative****Job Narrative
890-1798-1****Receipt**

The samples were received on 1/4/2022 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method Total_BTEX_GCV: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16093 and analytical batch 880-16114 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 880-16142 and analytical batch 880-16117 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16090 and analytical batch 880-16214 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS01

Lab Sample ID: 890-1798-1

Date Collected: 01/04/22 11:00

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 01/06/22 11:30 | 01/06/22 19:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 193 | S1+ | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | 01/06/22 11:30 | 01/06/22 19:57 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 01/10/22 12:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 130 | 01/06/22 12:43 | 01/06/22 18:21 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | 01/06/22 12:43 | 01/06/22 18:21 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 556 | | 4.97 | mg/Kg | | | 01/06/22 22:15 | 1 |

Client Sample ID: FS02

Lab Sample ID: 890-1798-2

Date Collected: 01/04/22 11:12

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 219 | S1+ | 70 - 130 | 01/06/22 11:30 | 01/06/22 20:24 | 1 |

Eurofins Xenco

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS02

Lab Sample ID: 890-1798-2

Date Collected: 01/04/22 11:12

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 119 | | 70 - 130 | 01/06/22 11:30 | 01/06/22 20:24 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 01/10/22 12:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:42 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 01/06/22 12:43 | 01/06/22 18:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 79 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 18:42 | 1 |
| o-Terphenyl | 92 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 18:42 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1230 | | 4.95 | mg/Kg | | | 01/06/22 22:22 | 1 |

Client Sample ID: FS03

Lab Sample ID: 890-1798-3

Date Collected: 01/04/22 11:14

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 01/06/22 11:30 | 01/06/22 20:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 145 | S1+ | 70 - 130 | 01/06/22 11:30 | 01/06/22 20:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 | 01/06/22 11:30 | 01/06/22 20:51 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/10/22 12:40 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS03

Lab Sample ID: 890-1798-3

Date Collected: 01/04/22 11:14

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:04 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:04 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 19:04 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 19:04 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 246 | | 4.95 | mg/Kg | | | 01/06/22 22:30 | 1 |

Client Sample ID: FS04

Lab Sample ID: 890-1798-4

Date Collected: 01/04/22 13:20

Matrix: Solid

Date Received: 01/04/22 15:48

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 199 | S1+ | 70 - 130 | | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 01/06/22 11:30 | 01/06/22 21:19 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 01/07/22 08:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 01/10/22 12:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:25 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U *1 | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:25 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 19:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 19:25 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 19:25 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS04
Date Collected: 01/04/22 13:20
Date Received: 01/04/22 15:48
Sample Depth: 1

Lab Sample ID: 890-1798-4
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 559 | | 5.04 | mg/Kg | | | 01/06/22 22:38 | 1 | |

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-1798-1 | FS01 | 193 S1+ | 95 |
| 890-1798-2 | FS02 | 219 S1+ | 119 |
| 890-1798-3 | FS03 | 145 S1+ | 79 |
| 890-1798-4 | FS04 | 199 S1+ | 105 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

Method: Total BTEX - Total BTEX Calculation

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|------|
| Lab Sample ID | Client Sample ID | BFB | DFBZ |
| 880-9879-A-1-B MS | Matrix Spike | | |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | | |
| LCS 880-16093/1-A | Lab Control Sample | | |
| LCSD 880-16093/2-A | Lab Control Sample Dup | | |
| MB 880-16093/5-A | Method Blank | | |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-1797-A-1-F MS | Matrix Spike | 77 | 83 |
| 890-1797-A-1-G MSD | Matrix Spike Duplicate | 77 | 81 |
| 890-1798-1 | FS01 | 78 | 93 |
| 890-1798-2 | FS02 | 79 | 92 |
| 890-1798-3 | FS03 | 83 | 97 |
| 890-1798-4 | FS04 | 78 | 93 |
| LCS 880-16142/2-A | Lab Control Sample | 104 | 107 |
| LCSD 880-16142/3-A | Lab Control Sample Dup | 110 | 119 |
| MB 880-16142/1-A | Method Blank | 74 | 85 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: LCS 880-16093/1-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: LCSD 880-16093/2-A

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: 880-9879-A-1-B MS

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16093

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

Lab Sample ID: 880-9879-A-1-C MSD

Matrix: Solid

Analysis Batch: 16114

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16093

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

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

Lab Sample ID: MB 880-16142/1-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 74 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |
| o-Terphenyl | 85 | | 70 - 130 | | | 01/06/22 12:43 | 01/06/22 15:37 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

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

Lab Sample ID: LCS 880-16142/2-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16142

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|----------|
| | | | | | | | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 773.3 | | mg/Kg | | 77 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 895.8 | | mg/Kg | | 90 | 70 - 130 |
| | | | | | | | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | |
| o-Terphenyl | 107 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-16142/3-A

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16142

| | | | Spike | LCSD | LCSD | | | | %Rec. | RPD | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 917.7 | | mg/Kg | | 92 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1151 | *1 | mg/Kg | | 115 | 70 - 130 | 25 | 20 |
| | | | LCSD | LCSD | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 110 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 119 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1797-A-1-F MS

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16142

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | | |
|--------------------------------------|--------------|--------------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 996 | 735.3 | | mg/Kg | | 74 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 996 | 897.9 | | mg/Kg | | 87 | 70 - 130 | | |
| | | | | | | | | | | | |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 83 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 890-1797-A-1-G MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16142

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|--------------------------------------|------------------|------------------|----------|--------|-----------|-------|---|------|----------|---|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 766.8 | | mg/Kg | | 77 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 999 | 884.4 | | mg/Kg | | 85 | 70 - 130 | 2 | 20 |
| | | | | | | | | | | | |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 77 | | 70 - 130 | | | | | | | | |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

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

Lab Sample ID: 890-1797-A-1-G MSD

Matrix: Solid

Analysis Batch: 16117

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16142

| | MSD | MSD | |
|---------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| <i>o</i> -Terphenyl | 81 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16090/1-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Method Blank

Prep Type: Soluble

| | MB | MB | | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|-----|-----|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil | Fac |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 01/06/22 20:32 | | 1 |

Lab Sample ID: LCS 880-16090/2-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| | | | Spike | LCS | LCS | | | | %Rec. |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | | | 250 | 234.1 | | mg/Kg | | 94 | 90 - 110 |

Lab Sample ID: LCSD 880-16090/3-A

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | | | 250 | 238.8 | | mg/Kg | | 96 | 90 - 110 | 2 | 20 |

Lab Sample ID: 880-9872-A-14-D MS

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Matrix Spike

Prep Type: Soluble

| | Sample | Sample | Spike | MS | MS | | | | %Rec. |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | 16200 | F1 | 4990 | 20290 | F1 | mg/Kg | | 83 | 90 - 110 |

Lab Sample ID: 880-9872-A-14-E MSD

Matrix: Solid

Analysis Batch: 16214

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 16200 | F1 | 4990 | 19750 | F1 | mg/Kg | | 72 | 90 - 110 | 3 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

GC VOA

Prep Batch: 16093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | 5035 | |
| 890-1798-2 | FS02 | Total/NA | Solid | 5035 | |
| 890-1798-3 | FS03 | Total/NA | Solid | 5035 | |
| 890-1798-4 | FS04 | Total/NA | Solid | 5035 | |
| MB 880-16093/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-16093/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-16093/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-9879-A-1-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 16114

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | 8021B | 16093 |
| 890-1798-2 | FS02 | Total/NA | Solid | 8021B | 16093 |
| 890-1798-3 | FS03 | Total/NA | Solid | 8021B | 16093 |
| 890-1798-4 | FS04 | Total/NA | Solid | 8021B | 16093 |
| MB 880-16093/5-A | Method Blank | Total/NA | Solid | Total BTEX | 16093 |
| LCS 880-16093/1-A | Lab Control Sample | Total/NA | Solid | Total BTEX | 16093 |
| LCSD 880-16093/2-A | Lab Control Sample Dup | Total/NA | Solid | Total BTEX | 16093 |
| 880-9879-A-1-B MS | Matrix Spike | Total/NA | Solid | Total BTEX | 16093 |
| 880-9879-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | Total BTEX | 16093 |

Analysis Batch: 16207

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-1798-2 | FS02 | Total/NA | Solid | Total BTEX | |
| 890-1798-3 | FS03 | Total/NA | Solid | Total BTEX | |
| 890-1798-4 | FS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 16117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | 8015B NM | 16142 |
| 890-1798-2 | FS02 | Total/NA | Solid | 8015B NM | 16142 |
| 890-1798-3 | FS03 | Total/NA | Solid | 8015B NM | 16142 |
| 890-1798-4 | FS04 | Total/NA | Solid | 8015B NM | 16142 |
| MB 880-16142/1-A | Method Blank | Total/NA | Solid | 8015B NM | 16142 |
| LCS 880-16142/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 16142 |
| LCSD 880-16142/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 16142 |
| 890-1797-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 16142 |
| 890-1797-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 16142 |

Prep Batch: 16142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-1798-2 | FS02 | Total/NA | Solid | 8015NM Prep | |
| 890-1798-3 | FS03 | Total/NA | Solid | 8015NM Prep | |
| 890-1798-4 | FS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-16142/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-16142/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

GC Semi VOA (Continued)

Prep Batch: 16142 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-16142/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-1797-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-1797-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 16428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-1798-1 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-1798-2 | FS02 | Total/NA | Solid | 8015 NM | |
| 890-1798-3 | FS03 | Total/NA | Solid | 8015 NM | |
| 890-1798-4 | FS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 16090

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-1798-1 | FS01 | Soluble | Solid | DI Leach | |
| 890-1798-2 | FS02 | Soluble | Solid | DI Leach | |
| 890-1798-3 | FS03 | Soluble | Solid | DI Leach | |
| 890-1798-4 | FS04 | Soluble | Solid | DI Leach | |
| MB 880-16090/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-16090/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-16090/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-9872-A-14-D MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-9872-A-14-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 16214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-1798-1 | FS01 | Soluble | Solid | 300.0 | 16090 |
| 890-1798-2 | FS02 | Soluble | Solid | 300.0 | 16090 |
| 890-1798-3 | FS03 | Soluble | Solid | 300.0 | 16090 |
| 890-1798-4 | FS04 | Soluble | Solid | 300.0 | 16090 |
| MB 880-16090/1-A | Method Blank | Soluble | Solid | 300.0 | 16090 |
| LCS 880-16090/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 16090 |
| LCSD 880-16090/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 16090 |
| 880-9872-A-14-D MS | Matrix Spike | Soluble | Solid | 300.0 | 16090 |
| 880-9872-A-14-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 16090 |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS01

Lab Sample ID: 890-1798-1

Date Collected: 01/04/22 11:00

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 19:57 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 18:21 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 22:15 | CH | XEN MID |

Client Sample ID: FS02

Lab Sample ID: 890-1798-2

Date Collected: 01/04/22 11:12

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 20:24 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 18:42 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 22:22 | CH | XEN MID |

Client Sample ID: FS03

Lab Sample ID: 890-1798-3

Date Collected: 01/04/22 11:14

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 20:51 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 19:04 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 22:30 | CH | XEN MID |

Client Sample ID: FS04

Lab Sample ID: 890-1798-4

Date Collected: 01/04/22 13:20

Matrix: Solid

Date Received: 01/04/22 15:48

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 16093 | 01/06/22 11:30 | KL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 16114 | 01/06/22 21:19 | KL | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | 16207 | 01/07/22 08:42 | KL | XEN MID |

Eurofins Xenco

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Client Sample ID: FS04
Date Collected: 01/04/22 13:20
Date Received: 01/04/22 15:48

Lab Sample ID: 890-1798-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8015 NM | | 1 | 16428 | 01/10/22 12:40 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 16142 | 01/06/22 12:43 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | 16117 | 01/06/22 19:25 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 16090 | 01/05/22 11:34 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | 16214 | 01/06/22 22:38 | CH | XEN MID |

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

Laboratory: Eurofins Xenco

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-21-22 | 06-30-22 |

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 30 BS 105H

Job ID: 890-1798-1
SDG: 31403236.029 TASK 05.02

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-1798-1 | FS01 | Solid | 01/04/22 11:00 | 01/04/22 15:48 | 1 |
| 890-1798-2 | FS02 | Solid | 01/04/22 11:12 | 01/04/22 15:48 | 1 |
| 890-1798-3 | FS03 | Solid | 01/04/22 11:14 | 01/04/22 15:48 | 1 |
| 890-1798-4 | FS04 | Solid | 01/04/22 13:20 | 01/04/22 15:48 | 1 |

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



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


Page 1 of 1

Chain of Custody

Work Order No: _____

| | | | |
|------------------|----------------------------|-------------------------|----------------------------|
| Project Manager: | Benjamin Beill | Bill to: (if different) | Adrian Baker |
| Company Name: | WSP USA | Company Name: | XTO Energy |
| Address: | 508 West Stevens Street | Address: | 3104 E. Green Street |
| City, State Z/P: | Carlsbad, New Mexico 88220 | City, State ZIP: | Carlsbad, New Mexico 88220 |
| Phone: | 989-854-0852 | Email: | Ben.Beill@wsp.com |

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

| | | | | |
|---|-------------------------|--------------------|--------------------------|-----------------------------|
| Project Name: | PLU 30 BS 103H | Turn Around | | Work Order Notes |
| Project Number: | 31403236.029 Task 05.02 | Routine | <input type="checkbox"/> | A.F.E: DD.2017.01969.CAP.CI |
| P.O. Number: | | Rush: 3 Day | | nAPP2130054846 |
| Sampler's Name: | Payton Benner | Due Date: | | |
| SAMPLE RECEIPT | | Temp Blank: | (Yes) No | |
| Temperature (°C): | 1.4 / 1.2 | Thermometer ID | TM-007 | |
| Received intact: | (Yes) No | Correction Factor: | -0.2 | |
| Cooler Custody Seals: | Yes No (N/A) | Total Containers: | | |
| Sample Custody Seals: | Yes No (N/A) | | | |
| Number of Containers | | | | |
| PA 8015) | | | | |
| EPA 0-8021) | | | | |
| le (EPA 300.0) | | | | |
|  890-1798 Chain of Custody | | | | |
| TAT starts the day received by the lab, if received by 4:30pm | | | | |

[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions to service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the client. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------------------|------------------------------|--------------------------|-----------|
| <i>gabriel</i> | <i>Chevy</i> | 1-4-21 1548 ² | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1798-1

SDG Number: 31403236.029 TASK 05.02

Login Number: 1798

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco

| 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: 890-1798-1

SDG Number: 31403236.029 TASK 05.02

Login Number: 1798

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco

List Creation: 01/06/22 11:57 AM

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

ATTACHMENT 5: SDS - FRICTION REDUCER



SAFETY DATA SHEET

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name POLYglide Xcel-200

Other means of identification

Product Code(s) 10497

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

PfP Industries
29738 Goynes Rd.
Katy, TX 77493

Manufacturer Address

PfP Industries
29738 Goynes Rd.
Katy, TX 77493

Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Category 4

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Combustible liquid

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

| | | |
|--------------------------|------------------------------|-------------------------|
| Appearance Opaque | Physical state Liquid | Odor Mineral Oil |
|--------------------------|------------------------------|-------------------------|

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin
Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical name | CAS No | Weight-% | Trade secret |
|---|------------|----------|--------------|
| Petroleum distillates, hydrotreated light | 64742-47-8 | 40 - 70 | |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---|---|
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |
| Self-protection of the first aider | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). |

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| Suitable Extinguishing Media | Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. |
| Unsuitable extinguishing media | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Specific hazards arising from the chemical | Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. |
| Explosion data | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. |
|-----------------------------|--|

Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. |
|----------------------------------|--|

Methods and material for containment and cleaning up

| | |
|--|--|
| Methods for containment | Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. |
| Methods for cleaning up | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on safe handling | Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. |
|--------------------------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. |
|---------------------------|--|

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Opaque
Color Milky white to yellow
Odor Mineral Oil
Odor threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH | No data available | None known |
| Melting point / freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flash point | >= 67 °C / 153 °F | |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability limit: | No data available | |
| Lower flammability limit: | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | 0.97 - 1.03 | |
| Water solubility | Miscible in water | |
| Solubility in other solvents | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | ≥150 mm ² /s | |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

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Other Information

| | |
|------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Liquid Density | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | None known based on information supplied. |
| Hazardous decomposition products | None known based on information supplied. |

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|--------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

| | |
|-------------------------------|----------------|
| ATEmix (oral) | 5,005.00 mg/kg |
| ATEmix (dermal) | 2,002.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 5.20 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|-------------------------|------------------------|
| Petroleum distillates, hydrotreated light 64742-47-8 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5.2 mg/L (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|---------------------------|---------------------------|
| Skin corrosion/irritation | No information available. |
|---------------------------|---------------------------|

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| | |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--|----------------------|--|----------------------------|---|
| Petroleum distillates, hydrotreated light 64742-47-8 | - | 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static | - | 4720: 96 h Den-dronereides heteropoda mg/L LC50 |

| | |
|-------------------------------|------------------------------------|
| Persistence and degradability | No information available. |
| Bioaccumulation | There is no data for this product. |
| Other adverse effects | No information available. |

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------------|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |

14. TRANSPORT INFORMATION

| | |
|------------|---|
| <u>DOT</u> | Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)) |
|------------|---|

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Complies |

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PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | Yes |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | | | | | |
|-------------|----------------|---|--------------|---|------------------|---|----------------------------------|---|
| <u>NFPA</u> | Health hazards | 2 | Flammability | 2 | Instability | 0 | Physical and chemical properties | - |
| <u>HMIS</u> | Health hazards | 2 | Flammability | 2 | Physical hazards | 0 | Personal protection | X |

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

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End of Safety Data Sheet

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 91344

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 91344 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| jnobui | Revised Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A. | 3/21/2022 |