

Incident ID	NRM2026238329
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 8/24/2021

email: Adrian.Baker@exxonmobil.com Telephone: (432)-236-3808

OCD Only

Received by: Ramona Marcus Date: 8/25/2021

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: Robert Hamlet Date: 8/25/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.10220 Longitude -103.78083
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 28 BS 126H	Site Type Well pad
Date Release Discovered 8-28-2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	28	25S	31E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) Frac Fluid	Volume/Weight Released (provide units) 8 bbls	Volume/Weight Recovered (provide units) 8 bbls

Cause of Release During frac operations, the tee component leaked 8 bbls of frac fluid into containment. All 8 bbls were recovered with vacuum trailer. A 48-hour advance liner inspection notification was given to NMOC district 2. The liner was removed before the inspection was completed. A third party contractor has been retained to evaluate the need for remediation.

Form C-141

State of New Mexico

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Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ 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.	
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Printed Name: <u>Kyle Littrell</u> Signature:  email: <u>Kyle.Littrell@xtoenergy.com</u>	Title: <u>SH&E Supervisor</u> Date: <u>9-11-20</u> Telephone: <u>432-221-7331</u>
OCD Only Received by: <u>Ramona Marcus</u> Date: <u>9/18/2020</u>	

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 8/24/2021

email: Adrian.Baker@exxonmobil.com Telephone: (432)-236-3808

OCD Only

Received by: Ramona Marcus Date: 8/25/2021

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Printed Name: Adrian Baker Title: SSHE Coordinator

Signature: Adrian Baker Date: 8/24/2021

email: Adrian.Baker@exxonmobil.com Telephone: (432)-236-3808

OCD Only

Received by: Ramona Marcus Date: 8/25/2021

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: _____

Printed Name: _____ Title: _____



WSP USA

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

August 24, 2021

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

**RE: Closure Request
Poker Lake Unit 28 BS 126H
Incident Number NRM2026238329
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, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 28 BS 126H (Site) in Unit G, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of frac fluid at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NRM2026238329.

RELEASE BACKGROUND

On August 28, 2020, a tee component leaked, resulting in the release of 8 barrels (bbls) of frac fluid into temporary lined containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 8 bbls of frac fluid were recovered. A 48-hour advance notice of liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office; however, the liner was removed before the inspection could be completed. XTO reported the release to the NMOCD on a Form C-141 on September 11, 2020. The release was assigned Incident Number NRM2026238329.

SITE CHARACTERIZATION

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



during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is approximately 1,400 feet west of the site and is depicted on Figure 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 beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Two additional permitted groundwater wells (USGS well 320643103465002 and NMOSE well C-02250) are located less than 1 mile north of the Site with measured depth to groundwater greater than 300 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is a palustrine, located approximately 1.24 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release occurred during drilling activities and was located adjacent to the active wellheads. WSP personnel collected six preliminary assessment soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.2 feet to 0.5 feet bgs to assess the lateral extent of the impacted soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated



photoionization 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, 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 Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS03 through SS06 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Delineation activities were postponed due to ongoing drilling operations near the release, which resulted in activity restrictions at the Site due to safety concerns. On June 4, 2021, once drilling operations were complete, WSP personnel returned to the Site to complete delineation activities as indicated by visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples. Potholes PH01 through PH07 were advanced to a depth of 3 feet bgs within and around the release extent to define the lateral and vertical extent of impacted soil. Delineation soil samples were collected from each pothole from depths of 1 foot and 3 feet bgs. Soil from the potholes was field screened, collected, handled and analyzed as previously described. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The potholes and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH07 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the laboratory analytical results, the lateral and vertical extent of impacted soil was successfully defined. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.



EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Based on the limited extent of hydrocarbon impacted surface soil identified around preliminary samples SS01 and SS02, excavation and Micro-Blaze® application were warranted. On June 4, 2021, WSP personnel were at the Site to oversee excavation of impacted surface soil as indicated by surficial staining, field screening activities, and laboratory analytical results for preliminary samples SS01 and SS02. The release was located in area with multiple active subsurface lines; therefore, the impacted surface soil was excavated via hand shoveling. The excavations around preliminary samples SS01 and SS02 were completed to a depth of approximately 0.5 feet bgs. Following removal of impacted soil, WSP applied a solution of Micro-Blaze®, a biological amendment promoting microbial degradation, across the excavation areas to further address any residual hydrocarbons.

On August 20, 2021, WSP returned to the Site to collect confirmation samples from the excavated/treated areas. The combined excavation extents measured approximately 100 square feet in area. WSP collected a 5-point composite soil sample from the floor of each 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 and FS02 were collected from the floors of the excavations from a depth of 0.5 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extents and excavation soil sample locations are presented on Figure 4. Photographic documentation is included in Attachment 3.

Laboratory analytical results for excavation floor samples FS01 and FS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

The excavation areas measured approximately 100 square feet. A total of approximately 2 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.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 28, 2020 release of frac fluid. Laboratory analytical results for the delineation and excavation soil samples 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.

Initial response efforts which included removal of freestanding fluids, excavation of impacted soil, and application of Micro-Blaze® amendment have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions



District II
Page 5

are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NRM2026238329.

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 "Anna Byers".

Anna Byers
Consultant, Geologist

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

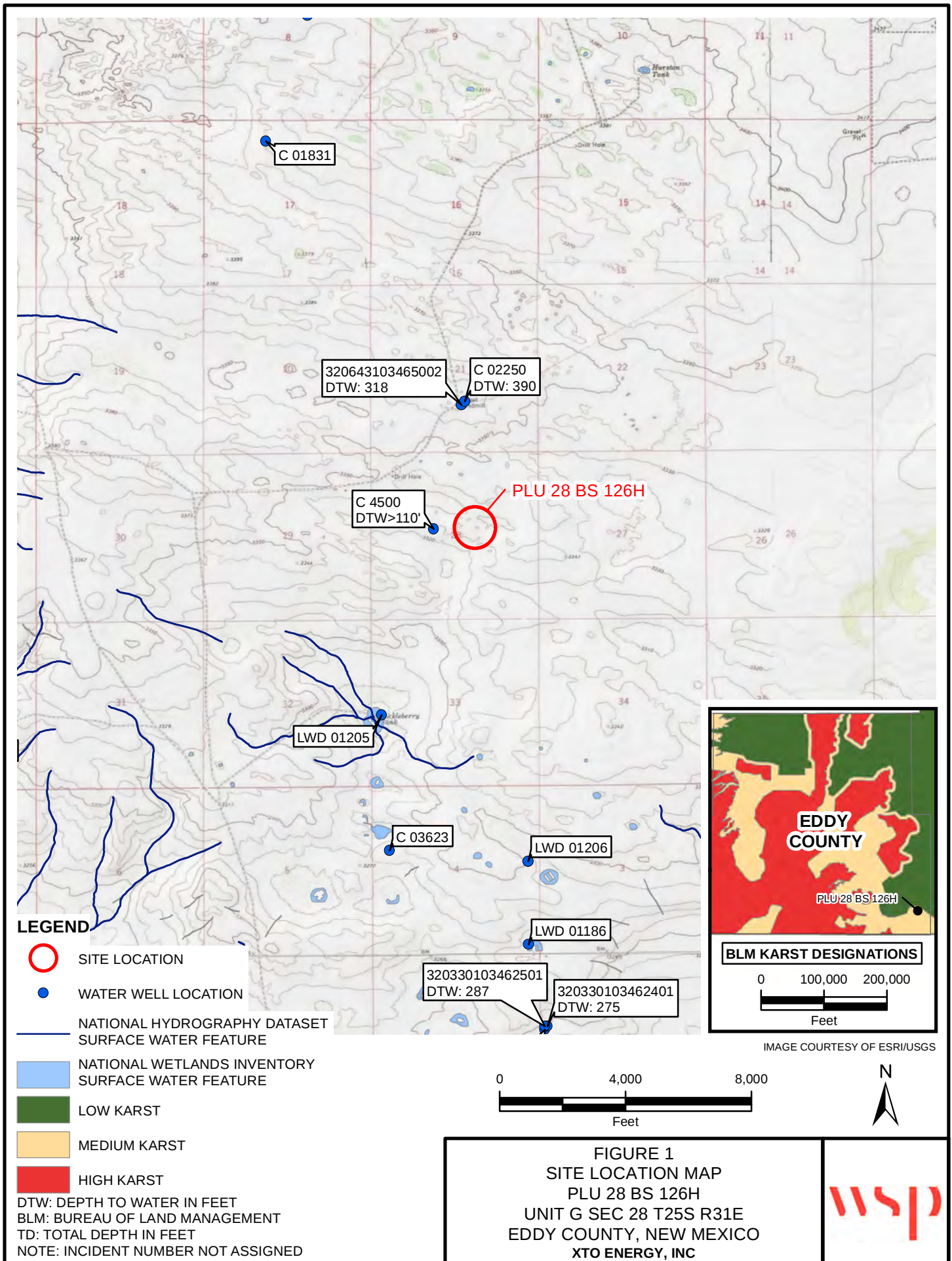
Ashley L. Ager, P.G.
Managing Director, Geologist

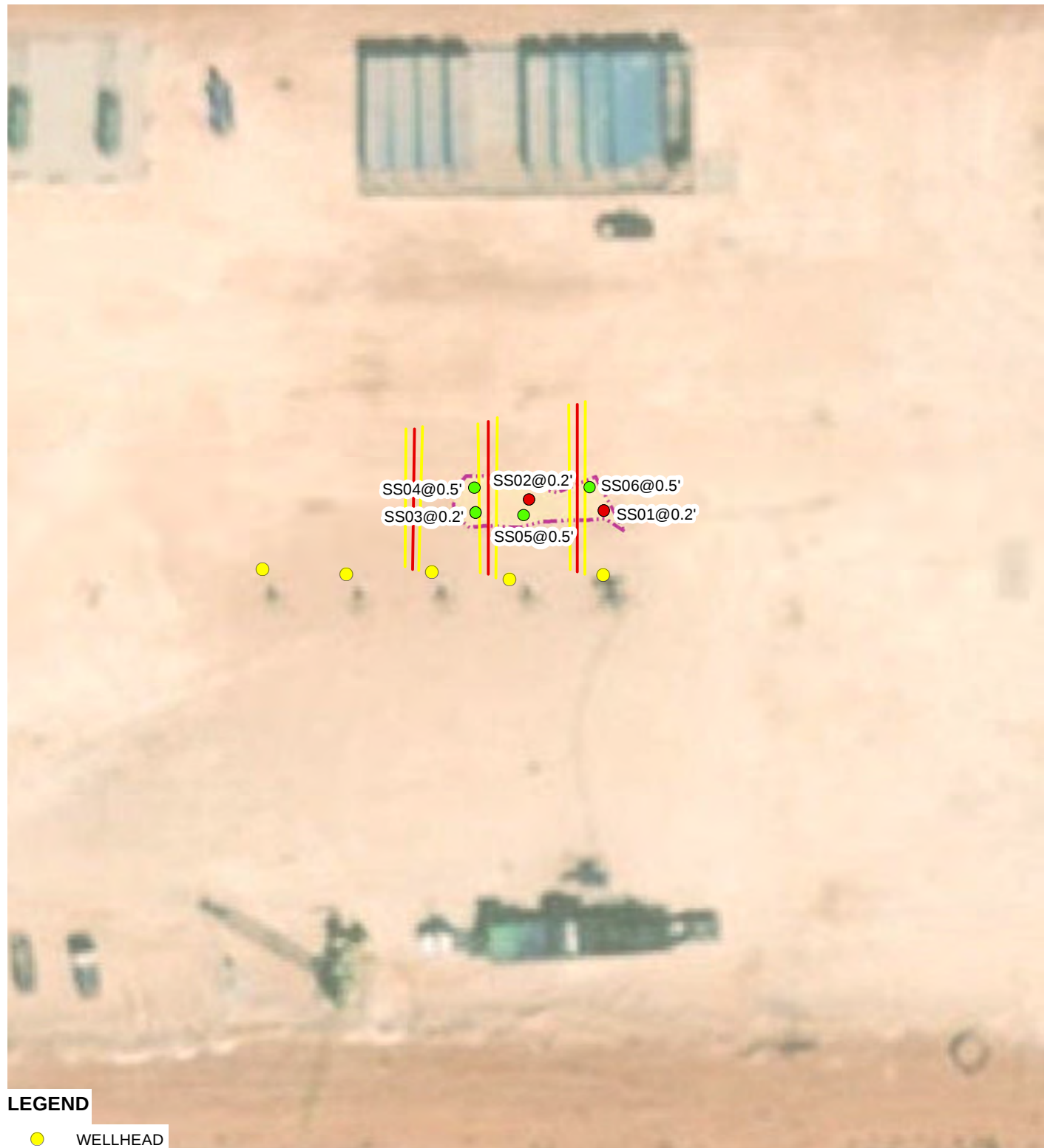
cc: Adrian Baker, XTO
Bureau of Land Management

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/Sampling Log
Attachment 3 Photographic Log
Attachment 4 Laboratory Analytical Reports

FIGURES





LEGEND

- WELLHEAD
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NOT ASSIGNED
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

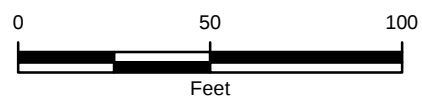
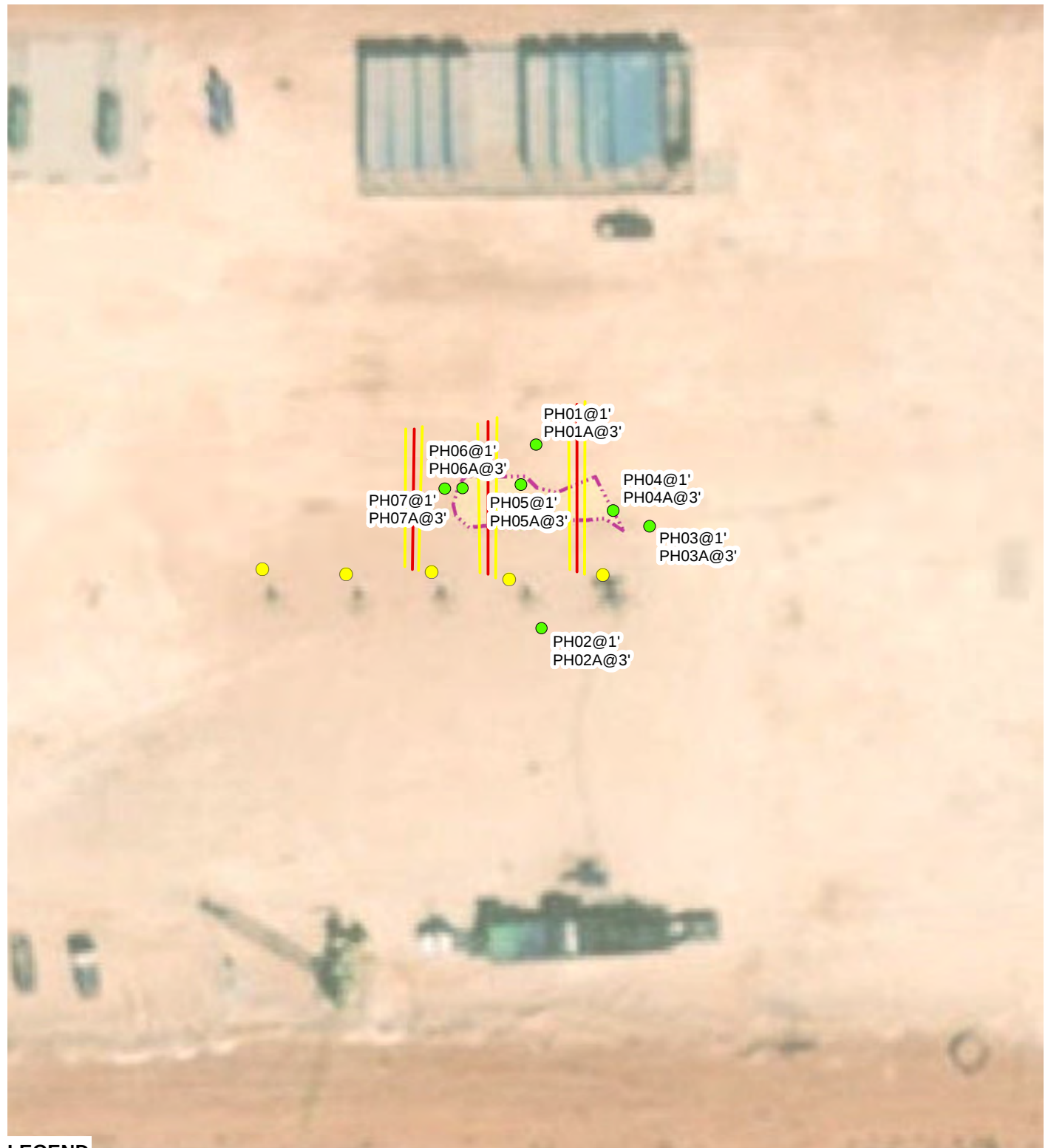


FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 28 BS 126H
UNIT G SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



**LEGEND**

- WELLHEAD
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NOT ASSIGNED
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

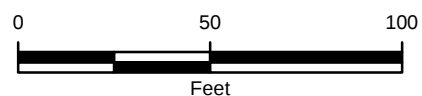
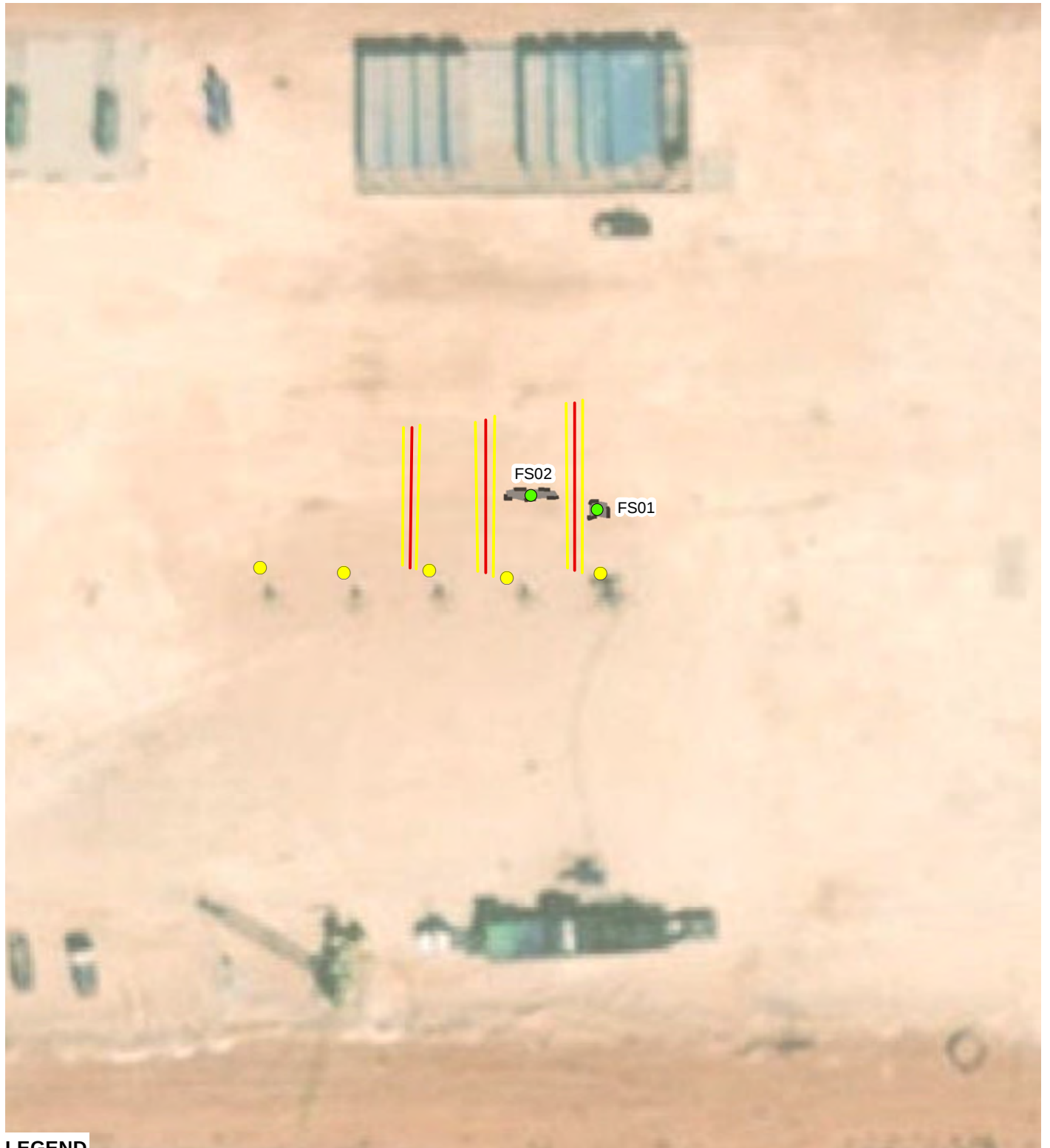


IMAGE COURTESY OF ESRI

FIGURE 3
 DELINEATION SOIL SAMPLE LOCATIONS
 POKER LAKE UNIT 28 BS 126H
 UNIT G SEC 28 T25S R31E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.





LEGEND

- WELLHEAD
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ELECTRIC LINE
- GAS LINE
- XXXXXX EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NOT ASSIGNED
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

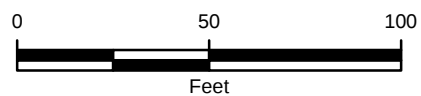


FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT 28 BS 126H
UNIT G SEC 28 T25S R31E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
 PLU 28 BS 126H
 Incident Number NRM2026238329
 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	09/29/2020	0.2	<0.0200	<0.0200	33,900	<150	3,770	33,900	37,700	10,500
SS02	09/29/2020	0.2	<0.0200	<0.0200	6,090	<251	853	6,090	6,940	14,800
SS03	09/29/2020	0.2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	4,100
SS04	04/29/2021	0.5	<0.00201	<0.00402	200	<49.9	<49.9	200	200	13,500
SS05	04/29/2021	0.5	<0.00201	<0.00402	75.8	<49.9	<49.9	75.8	75.8	283
SS06	04/29/2021	0.5	<0.00200	<0.00399	162	<49.8	<49.8	162	162	1,840
Delineation Pothole Samples										
PH01	06/04/2021	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	70.7
PH01A	06/04/2021	3	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	13.3
PH02	06/04/2021	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	20.5
PH02A	06/04/2021	3	<0.00200	<0.00401	126	<49.9	<49.9	126	126	160
PH03	06/04/2021	1	<0.00199	<0.00398	<49.9	294	<49.9	294	294	10.9
PH03A	06/04/2021	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	19.1
PH04	06/04/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	91.5
PH04A	06/04/2021	3	<0.00200	<0.00400	208	<49.7	<49.7	208	208	1,160
PH05	06/04/2021	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	4,940
PH05A	06/04/2021	3	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	2,170
PH06	06/04/2021	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	20.5
PH06A	06/04/2021	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	7.26
PH07	06/04/2021	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	10.8
PH07A	06/04/2021	3	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	28.5

Table 1

Soil Analytical Results
 PLU 28 BS 126H
 Incident Number NRM2026238329
 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
Excavation Floor Samples										
FS01	08/20/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	88.1
FS02	08/20/2021	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	63.5

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 - motor 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

Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORDS



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) 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: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±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						

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	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ 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:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME Jackie D. Atkins DATE					

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

2021-05-05_C-4500_OSE_Well Record and Log_plu-forsign

Final Audit Report

2021-05-05

Created:	2021-05-05
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA_LWDwbNSqlSjjUwKTERilqyesTFMr2Q

"2021-05-05_C-4500_OSE_Well Record and Log_plu-forsign" History



Document created by Lucas Middleton (lucas@atkinseng.com)

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2021-05-05 - 9:29:12 PM GMT- IP address: 64.90.153.232



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

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



Agreement completed.

2021-05-05 - 9:29:47 PM GMT



Adobe Sign



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 8/25/2021 9:03:30

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

III. SIGNATURE:

Jack Atkins

05/05/2021

Signature of Well Driller

Date _____

Version: September 8, 2009
Page 2 of 2

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

Final Audit Report

2021-05-05

Created:	2021-05-05
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAABAK9L5xmxdw4gebAaYJQqFC_WD1hBxmhv

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

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

Eddy County, New Mexico

Hydrologic Unit Code 13070001

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

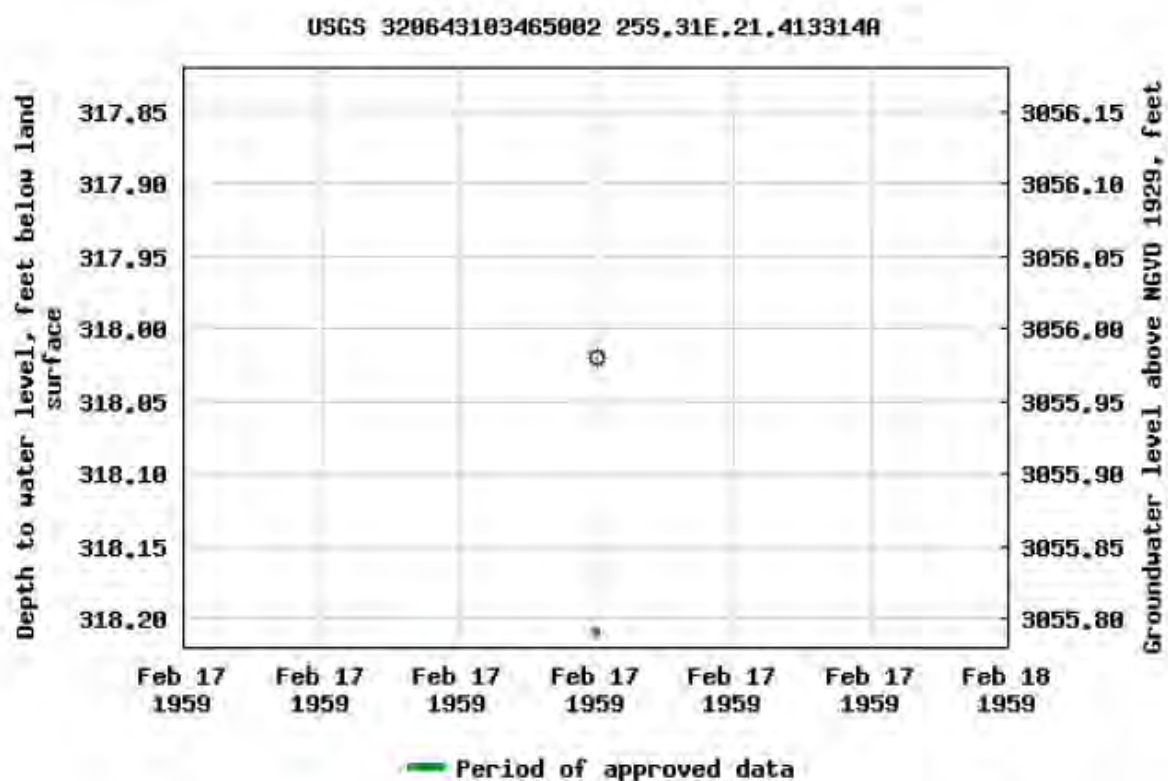
Land-surface elevation 3,374.00 feet above NGVD29

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

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

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH01		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102352, -103.780826				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	<156	0.0	N	PH01	1	1	SP	1-3' SAND, dry, light grey, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	<156	0.0	N	PH01A	3	3		color change reddish brown			
TD @ 3 feet bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name: PH02		Date: 06/04/2021		
					Site Name: PLU 28 BS 126H				
					RP or Incident Number: NRM2026238329				
					WSP Job Number: TE012920137				
LITHOLOGIC / SOIL SAMPLING LOG									
Lat/Long: 32.102174, -103.780820				Field Screening: Hach chloride strips, PID		Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor	
D	<156	1.1	N	PH02	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor	
						2			
D	184	1.1	N	PH02A	3	3	CCHE	3' CALICHE, dry, off white, moderate - poor consolidation, no stain, no odor	
TD @ 3 feet bgs									

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH03		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102273, -103.780697				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	<184	0.1	N	PH03	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	<184	0.4	N	PH03A	3	3					
TD @ 3 feet bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH04		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102288, -103.780739				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	1,299	1.2	N	PH04	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	<184	0.8	N	PH04A	3	3					
TD @ 3 feet bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH05		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102314, -103.780844				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	7,845	0.4	N	PH05	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	2,592	0.5	N	PH05A	3	3					
TD @ 3 feet bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH06		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102311, -103.780909				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	<184	0.1	N	PH06	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	<184	0.4	N	PH06A	3	3					
TD @ 3 feet bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH07		Date: 06/04/2021	
								Site Name: PLU 28 BS 126H			
								RP or Incident Number: NRM2026238329			
								WSP Job Number: TE012920137			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: FS		Method: Backhoe	
Lat/Long: 32.102310, -103.780930				Field Screening: Hach chloride strips, PID				Hole Diameter: NA		Total Depth: 3 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0	CCHE	0-1' CALICHE, dry, off white, poorly consolidated, no stain, no odor			
D	<184	0.0	N	PH07	1	1	SP	1-3' SAND, dry, reddish brown, poorly graded, fine-very fine grain, no stain, no odor			
						2					
D	<184	0.0	N	PH07A	3	3					
TD @ 3 feet bgs											

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU 28 BS 126H Eddy County, New Mexico	NRM2026238329

Photo No.	Date	
1	September 10, 2020	
Southeastern view of release extent.		

Photo No.	Date	
2	September 10, 2020	
Southeastern view of release extent.		



PHOTOGRAPHIC LOG		
XTO Energy, Inc.	PLU 28 BS 126H Eddy County, New Mexico	NRM2026238329

Photo No.	Date	
3	June 4, 2021	
Southwestern view of delineation activities.		 A photograph showing a southwestern view of delineation activities. A large white truck with a long, articulated arm is positioned on a dirt field. Two workers in blue uniforms and hard hats are standing near the truck. In the background, there are several red and white structures, possibly part of a wellhead or pumpjack, and a clear blue sky with some clouds.

Photo No.	Date	
4	June 4, 2021	
Eastern view of delineation soil sampling activities.		 A photograph showing an eastern view of delineation soil sampling activities. A yellow CAT backhoe loader is digging a hole in the dirt. Two workers in blue uniforms and hard hats are standing nearby. In the background, there are several red and white structures, possibly part of a wellhead or pumpjack, and a clear blue sky with some clouds.



PHOTOGRAPHIC LOG

XTO Energy, Inc.	PLU 28 BS 126H Eddy County, New Mexico	NRM2026238329
------------------	---	---------------

Photo No.	Date	
5	June 4, 2021	
Hand shovel excavation area		 A photograph showing a long, straight line of hand shovel excavation work in a desert environment. The ground is reddish-brown dirt. In the background, there are industrial structures, including a large metal frame and pipes, under a blue sky with scattered white clouds.

Photo No.	Date	
6	June 4, 2021	
Hand shoveling activities.		 A photograph showing two workers in a desert environment performing hand shoveling activities. The workers are wearing hard hats and safety gear. They are standing near a large industrial structure, possibly a wellhead or pumpjack, which is surrounded by pipes and valves. The ground is reddish-brown dirt. In the background, there are white storage tanks and other industrial equipment under a blue sky with scattered white clouds.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-599-1

SDG Number: TE012920137

Job Description: PLU 28 BS 126H

For:

WSP USA Inc.

2777 N. Stemmons Freeway

Suite 1600

Dallas, TX 75207

Attention: Dan Moir

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

Approved for release.
Jessica Kramer
Project Manager
5/4/2021 3:45 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
05/04/2021

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

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Lab Sample ID:	890-599-1	890-599-2	890-599-3
Client Sample ID:	SS04	SS05	SS06
Depth:	0.5	0.5	0.5
Matrix:	Solid	Solid	Solid
Date Collected:	04/29/2021 09:59	04/29/2021 10:01	04/29/2021 10:03

Method: 8021B - Volatile Organic Compounds (GC)

Prepared:	04/30/2021 10:10	04/30/2021 10:10	04/30/2021 10:10
Analyzed:	05/01/2021 17:56	05/01/2021 18:16	05/01/2021 18:37
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00201 U 0.00201	<0.00201 U 0.00201	<0.00200 U 0.00200
Toluene	<0.00201 U 0.00201	<0.00201 U 0.00201	<0.00200 U 0.00200
Ethylbenzene	<0.00201 U 0.00201	<0.00201 U 0.00201	<0.00200 U 0.00200
m-Xylene & p-Xylene	<0.00402 U 0.00402	<0.00402 U 0.00402	<0.00399 U 0.00399
o-Xylene	<0.00201 U 0.00201	<0.00201 U 0.00201	<0.00200 U 0.00200
Xylenes, Total	<0.00402 U 0.00402	<0.00402 U 0.00402	<0.00399 U 0.00399
Total BTEX	<0.00402 U 0.00402	<0.00402 U 0.00402	<0.00399 U 0.00399

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

Prepared:	04/30/2021 16:30	04/30/2021 16:30	04/30/2021 16:30
Analyzed:	05/01/2021 13:05	05/01/2021 14:09	05/01/2021 14:30
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U 49.9	<49.9 U 49.9	<49.8 U 49.8
Diesel Range Organics (Over C10-C28)	200 *+ 49.9	75.8 *+ 49.9	162 *+ 49.8
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<49.9 U 49.9	<49.8 U 49.8
Total TPH	200 49.9	75.8 49.9	162 49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:			
Analyzed:	05/03/2021 16:27	05/03/2021 16:32	05/03/2021 16:37
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	13500 100	283 5.05	1840 25.3



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-599-1

Laboratory Sample Delivery Group: TE012920137

Client Project/Site: PLU 28 BS 126H

For:

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

Attn: Dan Moir

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

Authorized for release by:
5/4/2021 3:44:54 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 28 BS 126H

Laboratory Job ID: 890-599-1
SDG: TE012920137

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Job ID: 890-599-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-599-1

Receipt

The samples were received on 4/29/2021 1:00 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

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS04 (890-599-1), SS05 (890-599-2) and SS06 (890-599-3).

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: SS04 (890-599-1) and SS06 (890-599-3). The sample(s) shows evidence of matrix interference.

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 880-2571 and analytical batch 880-2589 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 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Client Sample ID: SS04

Lab Sample ID: 890-599-1

Date Collected: 04/29/21 09:59

Matrix: Solid

Date Received: 04/29/21 13:00

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 17:56	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/30/21 10:10	05/01/21 17:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/30/21 10:10	05/01/21 17:56	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		04/30/21 16:30	05/01/21 13:05	1
Diesel Range Organics (Over C10-C28)	200	+	49.9	mg/Kg		04/30/21 16:30	05/01/21 13:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 13:05	1
Total TPH	200		49.9	mg/Kg		04/30/21 16:30	05/01/21 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/30/21 16:30	05/01/21 13:05	1
o-Terphenyl	108		70 - 130	04/30/21 16:30	05/01/21 13:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13500		100	mg/Kg			05/03/21 16:27	20

Client Sample ID: SS05

Lab Sample ID: 890-599-2

Date Collected: 04/29/21 10:01

Matrix: Solid

Date Received: 04/29/21 13:00

Sample Depth: - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 18:16	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/30/21 10:10	05/01/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/30/21 10:10	05/01/21 18:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/30/21 10:10	05/01/21 18:16	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Client Sample ID: SS05

Lab Sample ID: 890-599-2

Date Collected: 04/29/21 10:01

Matrix: Solid

Date Received: 04/29/21 13:00

Sample Depth: - 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:09	1
Diesel Range Organics (Over C10-C28)	75.8	*+	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:09	1
Total TPH	75.8		49.9	mg/Kg		04/30/21 16:30	05/01/21 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	04/30/21 16:30	05/01/21 14:09	1
o-Terphenyl	123		70 - 130	04/30/21 16:30	05/01/21 14:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		5.05	mg/Kg			05/03/21 16:32	1

Client Sample ID: SS06

Lab Sample ID: 890-599-3

Date Collected: 04/29/21 10:03

Matrix: Solid

Date Received: 04/29/21 13:00

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		04/30/21 10:10	05/01/21 18:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 18:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 18:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/30/21 10:10	05/01/21 18:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 18:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/30/21 10:10	05/01/21 18:37	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		04/30/21 10:10	05/01/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	04/30/21 10:10	05/01/21 18:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/30/21 10:10	05/01/21 18:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/30/21 16:30	05/01/21 14:30	1
Diesel Range Organics (Over C10-C28)	162	*+	49.8	mg/Kg		04/30/21 16:30	05/01/21 14:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/30/21 16:30	05/01/21 14:30	1
Total TPH	162		49.8	mg/Kg		04/30/21 16:30	05/01/21 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	04/30/21 16:30	05/01/21 14:30	1
o-Terphenyl	119		70 - 130	04/30/21 16:30	05/01/21 14:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		25.3	mg/Kg			05/03/21 16:37	5

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

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)
890-599-1	SS04	119	102
890-599-2	SS05	109	101
890-599-3	SS06	136 S1+	94
LCS 880-2532/1-A	Lab Control Sample	108	105
LCSD 880-2532/2-A	Lab Control Sample Dup	106	105
MB 880-2532/5-A	Method Blank	100	98
MB 880-2540/5-A	Method Blank	102	100
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)
890-599-1	SS04	102	108
890-599-1 MS	SS04	99	94
890-599-1 MSD	SS04	104	95
890-599-2	SS05	115	123
890-599-3	SS06	110	119
LCS 880-2571/2-A	Lab Control Sample	107	108
LCSD 880-2571/3-A	Lab Control Sample Dup	108	105
MB 880-2571/1-A	Method Blank	99	105
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2532/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2532

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 12:33	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/30/21 10:10	05/01/21 12:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/30/21 10:10	05/01/21 12:33	1

Lab Sample ID: LCS 880-2532/1-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1002		mg/Kg		100	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2130		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-2532/2-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2532

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	0	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	0	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130	2	35
o-Xylene	0.100	0.1025		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-2540/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/30/21 13:50	05/01/21 00:58	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

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

Lab Sample ID: MB 880-2540/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		04/30/21 13:50	05/01/21 00:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/30/21 13:50	05/01/21 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/30/21 13:50	05/01/21 00:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/30/21 13:50	05/01/21 00:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/30/21 13:50	05/01/21 00:58	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/30/21 13:50	05/01/21 00:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/30/21 13:50	05/01/21 00:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/30/21 13:50	05/01/21 00:58	1

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

Lab Sample ID: MB 880-2571/1-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2571

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		04/30/21 16:30	05/01/21 11:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 11:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 11:38	1
Total TPH	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/30/21 16:30	05/01/21 11:38	1
o-Terphenyl	105		70 - 130	04/30/21 16:30	05/01/21 11:38	1

Lab Sample ID: LCS 880-2571/2-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1159		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1112		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	108		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

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

Lab Sample ID: LCSD 880-2571/3-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1325	*+	mg/Kg		132	70 - 130	17	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: 890-599-1 MS

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 2571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1249		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)	200	*+	998	1065		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: 890-599-1 MSD

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 2571

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	998	1077		mg/Kg		108	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	200	*+	998	1115		mg/Kg		92	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2556/1-A

Matrix: Solid

Analysis Batch: 2608

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			05/03/21 15:17	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2556/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 2608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.2		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-2556/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 2608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	258.2		mg/Kg		103	90 - 110	2	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

GC VOA

Analysis Batch: 2530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Total/NA	Solid	8021B	2532
890-599-2	SS05	Total/NA	Solid	8021B	2532
890-599-3	SS06	Total/NA	Solid	8021B	2532
MB 880-2532/5-A	Method Blank	Total/NA	Solid	8021B	2532
MB 880-2540/5-A	Method Blank	Total/NA	Solid	8021B	2540
LCS 880-2532/1-A	Lab Control Sample	Total/NA	Solid	8021B	2532
LCSD 880-2532/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2532

Prep Batch: 2532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Total/NA	Solid	5035	
890-599-2	SS05	Total/NA	Solid	5035	
890-599-3	SS06	Total/NA	Solid	5035	
MB 880-2532/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2532/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2532/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2540/5-A	Method Blank	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 2571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Total/NA	Solid	8015NM Prep	
890-599-2	SS05	Total/NA	Solid	8015NM Prep	
890-599-3	SS06	Total/NA	Solid	8015NM Prep	
MB 880-2571/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2571/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2571/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-599-1 MS	SS04	Total/NA	Solid	8015NM Prep	
890-599-1 MSD	SS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Total/NA	Solid	8015B NM	2571
890-599-2	SS05	Total/NA	Solid	8015B NM	2571
890-599-3	SS06	Total/NA	Solid	8015B NM	2571
MB 880-2571/1-A	Method Blank	Total/NA	Solid	8015B NM	2571
LCS 880-2571/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2571
LCSD 880-2571/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2571
890-599-1 MS	SS04	Total/NA	Solid	8015B NM	2571
890-599-1 MSD	SS04	Total/NA	Solid	8015B NM	2571

HPLC/IC

Leach Batch: 2556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Soluble	Solid	DI Leach	
890-599-2	SS05	Soluble	Solid	DI Leach	
890-599-3	SS06	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

HPLC/IC (Continued)

Leach Batch: 2556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2556/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2556/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2556/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-599-1	SS04	Soluble	Solid	300.0	2556
890-599-2	SS05	Soluble	Solid	300.0	2556
890-599-3	SS06	Soluble	Solid	300.0	2556
MB 880-2556/1-A	Method Blank	Soluble	Solid	300.0	2556
LCS 880-2556/2-A	Lab Control Sample	Soluble	Solid	300.0	2556
LCSD 880-2556/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2556

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Client Sample ID: SS04

Lab Sample ID: 890-599-1

Date Collected: 04/29/21 09:59

Matrix: Solid

Date Received: 04/29/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2532	04/30/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	2530	05/01/21 17:56	MR	XM
Total/NA	Prep	8015NM Prep			2571	04/30/21 16:30	DM	XM
Total/NA	Analysis	8015B NM		1	2589	05/01/21 13:05	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	CH	XM
Soluble	Analysis	300.0		20	2608	05/03/21 16:27	CH	XM

Client Sample ID: SS05

Lab Sample ID: 890-599-2

Date Collected: 04/29/21 10:01

Matrix: Solid

Date Received: 04/29/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2532	04/30/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	2530	05/01/21 18:16	MR	XM
Total/NA	Prep	8015NM Prep			2571	04/30/21 16:30	DM	XM
Total/NA	Analysis	8015B NM		1	2589	05/01/21 14:09	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	CH	XM
Soluble	Analysis	300.0		1	2608	05/03/21 16:32	CH	XM

Client Sample ID: SS06

Lab Sample ID: 890-599-3

Date Collected: 04/29/21 10:03

Matrix: Solid

Date Received: 04/29/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2532	04/30/21 10:10	MR	XM
Total/NA	Analysis	8021B		1	2530	05/01/21 18:37	MR	XM
Total/NA	Prep	8015NM Prep			2571	04/30/21 16:30	DM	XM
Total/NA	Analysis	8015B NM		1	2589	05/01/21 14:30	AJ	XM
Soluble	Leach	DI Leach			2556	04/30/21 14:42	CH	XM
Soluble	Analysis	300.0		5	2608	05/03/21 16:37	CH	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

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	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-599-1
SDG: TE012920137

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-599-1	SS04	Solid	04/29/21 09:59	04/29/21 13:00	- 0.5
890-599-2	SS05	Solid	04/29/21 10:01	04/29/21 13:00	- 0.5
890-599-3	SS06	Solid	04/29/21 10:03	04/29/21 13:00	- 0.5

1

2

3

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5

6

7

8

9

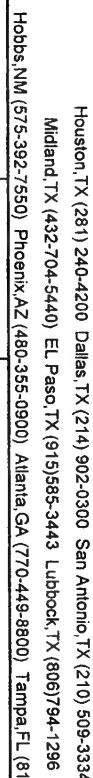
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Chain of Custody

Work Order No:

Page 1 of 1

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

Work Order Comments									
Program: UST/ST ☐ PRP ☐ brownfields ☐ RC ☐ Superfund ☐									
State of Project: NM									
Reporting Level: I ☐ Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐									
Deliverables: EDD ☐ ADaPT ☐ Other:									

[illegible]

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.

Circle Method(s) and Metal(s) to be analyzed	200.7 / 6010	200.8 / 6020:	Total 200.7 / 6010
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		
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U			1634 / 2464 / 7476 / 7474 - Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-29-21 1300			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-599-1

SDG Number: TE012920137

Login Number: 599

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-599-1

SDG Number: TE012920137

Login Number: 599

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/30/21 11:39 AM

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



Environment Testing
America

ANALYTICAL REPORT

Job Number: 890-787-1

SDG Number: TE012920137

Job Description: PLU 28 BS 126H

For:

WSP USA Inc.

2777 N. Stemmons Freeway

Suite 1600

Dallas, TX 75207

Attention: Kalei Jennings

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

Approved for release.
Jessica Kramer
Project Manager
6/10/2021 6:41 PM

Jessica Kramer, Project Manager
1211 W. Florida Ave, Midland, TX, 79701
jessica.kramer@eurofinset.com
06/10/2021

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

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.

Eurofins Xenco, Carlsbad

1089 N Canal St., Carlsbad, NM 88220

Tel (575) 988-3199 Fax (575) 988-3199 www.EurofinsUS.com



Client Sample Result Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Lab Sample ID: 890-787-1	890-787-2	890-787-3	890-787-4	890-787-5
Client Sample ID: PH01	PH01A	PH02	PH02A	PH03
Depth: 1	3	1	3	1
Matrix: Solid	Solid	Solid	Solid	Solid
Date Collected: 06/04/2021 13:26	06/04/2021 13:28	06/04/2021 13:33	06/04/2021 13:53	06/04/2021 13:57

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54
Analyzed: 06/08/2021 17:01	06/08/2021 17:22	06/08/2021 17:42	06/08/2021 18:03	06/08/2021 19:25
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202	<0.00200 U 0.00200
Toluene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202	<0.00200 U 0.00200
Ethylbenzene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202	<0.00200 U 0.00200
m-Xylene & p-Xylene	<0.00399 U 0.00399	<0.00404 U 0.00404	<0.00404 U 0.00404	<0.00401 U 0.00401
o-Xylene	<0.00200 U 0.00200	<0.00202 U 0.00202	<0.00202 U 0.00202	<0.00200 U 0.00200
Xylenes, Total	<0.00399 U 0.00399	<0.00404 U 0.00404	<0.00404 U 0.00404	<0.00401 U 0.00401
Total BTEX	<0.00399 U 0.00399	<0.00404 U 0.00404	<0.00404 U 0.00404	<0.00401 U 0.00401

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

Prepared: 06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43
Analyzed: 06/09/2021 02:56	06/09/2021 03:17	06/09/2021 03:38	06/09/2021 03:59	06/09/2021 04:20
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U 49.9	<49.8 U 49.8	<49.8 U 49.8	<49.9 U 49.9
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<49.8 U 49.8	<49.8 U 49.8	126 49.9
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<49.8 U 49.8	<49.8 U 49.8	<49.9 U 49.9
Total TPH	<49.9 U 49.9	<49.8 U 49.8	<49.8 U 49.8	126 49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:				
Analyzed: 06/10/2021 15:51	06/10/2021 15:56	06/09/2021 21:30	06/09/2021 21:45	06/09/2021 21:50
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	70.7 5.04	13.3 4.99	20.5 4.95	160 4.98

Client Sample Result Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Lab Sample ID: 890-787-6	890-787-7	890-787-8	890-787-9	890-787-10
Client Sample ID: PH03A	PH04	PH04A	PH05	PH05A
Depth: 3	1	3	1	3
Matrix: Solid	Solid	Solid	Solid	Solid
Date Collected: 06/04/2021 13:59	06/04/2021 14:05	06/04/2021 14:08	06/04/2021 14:15	06/04/2021 14:18

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54
Analyzed: 06/08/2021 19:45	06/08/2021 20:06	06/08/2021 20:26	06/08/2021 20:47	06/08/2021 21:07
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00199 U 0.00199
Toluene	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00199 U 0.00199
Ethylbenzene	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00199 U 0.00199
m-Xylene & p-Xylene	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00398 U 0.00398
o-Xylene	<0.00199 U 0.00199	<0.00199 U 0.00199	<0.00200 U 0.00200	<0.00199 U 0.00199
Xylenes, Total	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00398 U 0.00398
Total BTEX	<0.00398 U 0.00398	<0.00398 U 0.00398	<0.00400 U 0.00400	<0.00398 U 0.00398

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

Prepared: 06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43
Analyzed: 06/09/2021 04:41	06/09/2021 05:22	06/09/2021 05:43	06/09/2021 06:04	06/09/2021 06:25
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.9 U 49.9	<50.0 U 50.0	<49.7 U 49.7	<49.8 U 49.8
Diesel Range Organics (Over C10-C28)	<49.9 U 49.9	<50.0 U 50.0	208 49.7	<49.8 U 49.8
Oil Range Organics (Over C28-C36)	<49.9 U 49.9	<50.0 U 50.0	<49.7 U 49.7	<49.8 U 49.8
Total TPH	<49.9 U 49.9	<50.0 U 50.0	208 49.7	<49.8 U 49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:				
Analyzed: 06/09/2021 21:55	06/09/2021 22:00	06/09/2021 22:05	06/09/2021 22:09	06/09/2021 22:14
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	19.1 5.02	91.5 5.05	1160 4.99	4940 25.0
				2170 24.8

Client Sample Result Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Lab Sample ID: 890-787-11	890-787-12	890-787-13	890-787-14
Client Sample ID: PH06	PH06A	PH07	PH07A
Depth: 1	3	1	3
Matrix: Solid	Solid	Solid	Solid
Date Collected: 06/04/2021 14:25	06/04/2021 14:28	06/04/2021 14:30	06/04/2021 14:33

Method: 8021B - Volatile Organic Compounds (GC)

Prepared: 06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54	06/08/2021 08:54
Analyzed: 06/08/2021 21:27	06/08/2021 21:48	06/08/2021 22:08	06/08/2021 22:28
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Benzene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199
Toluene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199
Ethylbenzene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199
m-Xylene & p-Xylene	<0.00399 U 0.00399	<0.00396 U 0.00396	<0.00398 U 0.00398
o-Xylene	<0.00200 U 0.00200	<0.00198 U 0.00198	<0.00199 U 0.00199
Xylenes, Total	<0.00399 U 0.00399	<0.00396 U 0.00396	<0.00398 U 0.00398
Total BTEX	<0.00399 U 0.00399	<0.00396 U 0.00396	<0.00397 U 0.00397

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

Prepared: 06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43	06/08/2021 16:43
Analyzed: 06/09/2021 06:46	06/09/2021 07:07	06/09/2021 07:28	06/09/2021 07:49
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Gasoline Range Organics (GRO)-C6-C10	<49.8 U 49.8	<50.0 U 50.0	<49.9 U 49.9
Diesel Range Organics (Over C10-C28)	<49.8 U 49.8	<50.0 U 50.0	<49.9 U 49.9
Oil Range Organics (Over C28-C36)	<49.8 U 49.8	<50.0 U 50.0	<49.9 U 49.9
Total TPH	<49.8 U 49.8	<50.0 U 50.0	<49.9 U 49.9

Method: 300.0 - Anions, Ion Chromatography - Soluble

Prepared:			
Analyzed: 06/09/2021 19:12	06/09/2021 19:17	06/09/2021 19:22	06/09/2021 19:27
Analyte	Unit/RL: mg/Kg RL	mg/Kg RL	mg/Kg RL
Chloride	20.5 5.00	7.26 5.00	10.8 4.95
			28.5 4.96



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-787-1

Laboratory Sample Delivery Group: TE012920137

Client Project/Site: PLU 28 BS 126H

For:

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

Attn: Kalei Jennings

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

Authorized for release by:
6/10/2021 6:41:44 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 28 BS 126H

Laboratory Job ID: 890-787-1
SDG: TE012920137

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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
SQL	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 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Job ID: 890-787-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-787-1

Receipt

The samples were received on 6/7/2021 10:56 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 2.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-787-1), PH01A (890-787-2), PH02 (890-787-3), PH02A (890-787-4), PH03 (890-787-5), PH03A (890-787-6), PH04 (890-787-7), PH04A (890-787-8), PH05 (890-787-9), PH05A (890-787-10), PH06 (890-787-11), PH06A (890-787-12), PH07 (890-787-13) and PH07A (890-787-14).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH06A (890-787-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH01

Lab Sample ID: 890-787-1

Date Collected: 06/04/21 13:26

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 17:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 17:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 17:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 17:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 17:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 17:01	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	06/08/21 08:54	06/08/21 17:01	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/08/21 08:54	06/08/21 17:01	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		06/08/21 16:43	06/09/21 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 02:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 02:56	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/08/21 16:43	06/09/21 02:56	1
o-Terphenyl	92		70 - 130	06/08/21 16:43	06/09/21 02:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.7		5.04	mg/Kg			06/10/21 15:51	1

Client Sample ID: PH01A

Lab Sample ID: 890-787-2

Date Collected: 06/04/21 13:28

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:22	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/08/21 08:54	06/08/21 17:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/08/21 08:54	06/08/21 17:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH01A

Lab Sample ID: 890-787-2

Date Collected: 06/04/21 13:28

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:17	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/08/21 16:43	06/09/21 03:17	1
o-Terphenyl	98		70 - 130	06/08/21 16:43	06/09/21 03:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.99	mg/Kg			06/10/21 15:56	1

Client Sample ID: PH02

Lab Sample ID: 890-787-3

Date Collected: 06/04/21 13:33

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:42	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		06/08/21 08:54	06/08/21 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/08/21 08:54	06/08/21 17:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/08/21 08:54	06/08/21 17:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:38	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	06/08/21 16:43	06/09/21 03:38	1
o-Terphenyl	100		70 - 130	06/08/21 16:43	06/09/21 03:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		4.95	mg/Kg			06/09/21 21:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH02A

Lab Sample ID: 890-787-4

Date Collected: 06/04/21 13:53

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/08/21 08:54	06/08/21 18:03	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		06/08/21 08:54	06/08/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/08/21 08:54	06/08/21 18:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/08/21 08:54	06/08/21 18:03	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		06/08/21 16:43	06/09/21 03:59	1
Diesel Range Organics (Over C10-C28)	126		49.9	mg/Kg		06/08/21 16:43	06/09/21 03:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 03:59	1
Total TPH	126		49.9	mg/Kg		06/08/21 16:43	06/09/21 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	06/08/21 16:43	06/09/21 03:59	1
o-Terphenyl	115		70 - 130	06/08/21 16:43	06/09/21 03:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		4.98	mg/Kg			06/09/21 21:45	1

Client Sample ID: PH03

Lab Sample ID: 890-787-5

Date Collected: 06/04/21 13:57

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 19:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/08/21 08:54	06/08/21 19:25	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/08/21 08:54	06/08/21 19:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH03

Lab Sample ID: 890-787-5

Date Collected: 06/04/21 13:57

Matrix: Solid

Date Received: 06/07/21 10:56

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	294		49.9	mg/Kg		06/08/21 16:43	06/09/21 04:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 04:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 04:20	1
Total TPH	294		49.9	mg/Kg		06/08/21 16:43	06/09/21 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	06/08/21 16:43	06/09/21 04:20	1
o-Terphenyl	115		70 - 130	06/08/21 16:43	06/09/21 04:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.03	mg/Kg			06/09/21 21:50	1

Client Sample ID: PH03A

Lab Sample ID: 890-787-6

Date Collected: 06/04/21 13:59

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:45	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/08/21 08:54	06/08/21 19:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/08/21 08:54	06/08/21 19:45	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		06/08/21 16:43	06/09/21 04:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 04:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 04:41	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/08/21 16:43	06/09/21 04:41	1
o-Terphenyl	99		70 - 130	06/08/21 16:43	06/09/21 04:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		5.02	mg/Kg			06/09/21 21:55	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH04

Lab Sample ID: 890-787-7

Date Collected: 06/04/21 14:05

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 20:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:06	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/08/21 08:54	06/08/21 20:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/08/21 08:54	06/08/21 20:06	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		06/08/21 16:43	06/09/21 05:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 05:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 05:22	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	06/08/21 16:43	06/09/21 05:22	1
o-Terphenyl	108		70 - 130	06/08/21 16:43	06/09/21 05:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.5		5.05	mg/Kg			06/09/21 22:00	1

Client Sample ID: PH04A

Lab Sample ID: 890-787-8

Date Collected: 06/04/21 14:08

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 20:26	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/08/21 08:54	06/08/21 20:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/08/21 08:54	06/08/21 20:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH04A

Lab Sample ID: 890-787-8

Date Collected: 06/04/21 14:08

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 05:43	1
Diesel Range Organics (Over C10-C28)	208		49.7	mg/Kg		06/08/21 16:43	06/09/21 05:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 05:43	1
Total TPH	208		49.7	mg/Kg		06/08/21 16:43	06/09/21 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/08/21 16:43	06/09/21 05:43	1
o-Terphenyl	91		70 - 130	06/08/21 16:43	06/09/21 05:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		4.99	mg/Kg			06/09/21 22:05	1

Client Sample ID: PH05

Lab Sample ID: 890-787-9

Date Collected: 06/04/21 14:15

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 20:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 20:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:47	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/08/21 08:54	06/08/21 20:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/08/21 08:54	06/08/21 20:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:04	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	06/08/21 16:43	06/09/21 06:04	1
o-Terphenyl	92		70 - 130	06/08/21 16:43	06/09/21 06:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4940		25.0	mg/Kg			06/09/21 22:09	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH05A

Lab Sample ID: 890-787-10

Date Collected: 06/04/21 14:18

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/08/21 08:54	06/08/21 21:07	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		06/08/21 08:54	06/08/21 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/08/21 08:54	06/08/21 21:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/08/21 08:54	06/08/21 21:07	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	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 06:25	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 06:25	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 06:25	1
Total TPH	<49.7	U	49.7	mg/Kg		06/08/21 16:43	06/09/21 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	06/08/21 16:43	06/09/21 06:25	1
o-Terphenyl	96		70 - 130	06/08/21 16:43	06/09/21 06:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170		24.8	mg/Kg			06/09/21 22:14	5

Client Sample ID: PH06

Lab Sample ID: 890-787-11

Date Collected: 06/04/21 14:25

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 21:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 21:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 21:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 21:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 21:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 21:27	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/08/21 08:54	06/08/21 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/08/21 08:54	06/08/21 21:27	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/08/21 08:54	06/08/21 21:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH06

Lab Sample ID: 890-787-11

Date Collected: 06/04/21 14:25

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:46	1
Total TPH	<49.8	U	49.8	mg/Kg		06/08/21 16:43	06/09/21 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	06/08/21 16:43	06/09/21 06:46	1
o-Terphenyl	95		70 - 130	06/08/21 16:43	06/09/21 06:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		5.00	mg/Kg			06/09/21 19:12	1

Client Sample ID: PH06A

Lab Sample ID: 890-787-12

Date Collected: 06/04/21 14:28

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/08/21 08:54	06/08/21 21:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		06/08/21 08:54	06/08/21 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	06/08/21 08:54	06/08/21 21:48	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/08/21 08:54	06/08/21 21:48	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		06/08/21 16:43	06/09/21 07:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 07:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 07:07	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/09/21 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/08/21 16:43	06/09/21 07:07	1
o-Terphenyl	89		70 - 130	06/08/21 16:43	06/09/21 07:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.26		5.00	mg/Kg			06/09/21 19:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH07

Lab Sample ID: 890-787-13

Date Collected: 06/04/21 14:30

Matrix: Solid

Date Received: 06/07/21 10:56

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		06/08/21 08:54	06/08/21 22:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 22:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 22:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 22:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/08/21 08:54	06/08/21 22:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 22:08	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/08/21 08:54	06/08/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/08/21 08:54	06/08/21 22:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/08/21 08:54	06/08/21 22:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:28	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	06/08/21 16:43	06/09/21 07:28	1
o-Terphenyl	100		70 - 130	06/08/21 16:43	06/09/21 07:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		4.95	mg/Kg			06/09/21 19:22	1

Client Sample ID: PH07A

Lab Sample ID: 890-787-14

Date Collected: 06/04/21 14:33

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/08/21 08:54	06/08/21 22:28	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		06/08/21 08:54	06/08/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/08/21 08:54	06/08/21 22:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/08/21 08:54	06/08/21 22:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH07A

Lab Sample ID: 890-787-14

Date Collected: 06/04/21 14:33

Matrix: Solid

Date Received: 06/07/21 10:56

Sample Depth: - 3

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		06/08/21 16:43	06/09/21 07:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:49	1
Total TPH	<49.9	U	49.9	mg/Kg		06/08/21 16:43	06/09/21 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	06/08/21 16:43	06/09/21 07:49	1
o-Terphenyl	102		70 - 130	06/08/21 16:43	06/09/21 07:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5		4.96	mg/Kg			06/09/21 19:27	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

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)
890-787-1	PH01	95	100
890-787-2	PH01A	107	94
890-787-3	PH02	98	100
890-787-4	PH02A	105	93
890-787-5	PH03	96	92
890-787-6	PH03A	91	97
890-787-7	PH04	96	96
890-787-8	PH04A	99	100
890-787-9	PH05	97	99
890-787-10	PH05A	100	95
890-787-11	PH06	93	97
890-787-12	PH06A	88	89
890-787-13	PH07	90	89
890-787-14	PH07A	102	92
LCS 880-3867/1-A	Lab Control Sample	110	104
LCSD 880-3867/2-A	Lab Control Sample Dup	115	102
MB 880-3867/5-A	Method Blank	91	94
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)
890-787-1	PH01	100	92
890-787-2	PH01A	104	98
890-787-3	PH02	107	100
890-787-4	PH02A	121	115
890-787-5	PH03	122	115
890-787-6	PH03A	104	99
890-787-7	PH04	116	108
890-787-8	PH04A	100	91
890-787-9	PH05	100	92
890-787-10	PH05A	104	96
890-787-11	PH06	103	95
890-787-12	PH06A	97	89
890-787-13	PH07	112	100
890-787-14	PH07A	108	102
LCS 880-3908/2-A	Lab Control Sample	88	79
LCSD 880-3908/3-A	Lab Control Sample Dup	88	78
MB 880-3908/1-A	Method Blank	110	106
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3867/5-A

Matrix: Solid

Analysis Batch: 3871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3867

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 14:37	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/08/21 08:54	06/08/21 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/08/21 08:54	06/08/21 14:37	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/08/21 08:54	06/08/21 14:37	1

Lab Sample ID: LCS 880-3867/1-A

Matrix: Solid

Analysis Batch: 3871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09151		mg/Kg		92	70 - 130
Toluene	0.100	0.08805		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09461		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-3867/2-A

Matrix: Solid

Analysis Batch: 3871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09332		mg/Kg		93	70 - 130	2	35
Toluene	0.100	0.09229		mg/Kg		92	70 - 130	5	35
Ethylbenzene	0.100	0.09791		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

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

Lab Sample ID: MB 880-3908/1-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3908

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		06/08/21 16:43	06/08/21 23:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1
Total TPH	<50.0	U	50.0	mg/Kg		06/08/21 16:43	06/08/21 23:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	06/08/21 16:43	06/08/21 23:48	1
o-Terphenyl	106		70 - 130	06/08/21 16:43	06/08/21 23:48	1

Lab Sample ID: LCS 880-3908/2-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	840.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.2		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-3908/3-A

Matrix: Solid

Analysis Batch: 3879

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3908

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	829.9		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	952.0		mg/Kg		95	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	78		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3883/1-A

Matrix: Solid

Analysis Batch: 3932

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			06/09/21 17:00	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3883/2-A

Matrix: Solid

Analysis Batch: 3932

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-3883/3-A

Matrix: Solid

Analysis Batch: 3932

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	248.1		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-3885/1-A

Matrix: Solid

Analysis Batch: 3933

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			06/09/21 19:51	1

Lab Sample ID: LCS 880-3885/2-A

Matrix: Solid

Analysis Batch: 3933

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-3885/3-A

Matrix: Solid

Analysis Batch: 3933

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	251.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-3899/1-A

Matrix: Solid

Analysis Batch: 3934

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			06/10/21 12:50	1

Lab Sample ID: LCS 880-3899/2-A

Matrix: Solid

Analysis Batch: 3934

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.9		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-3899/3-A

Matrix: Solid

Analysis Batch: 3934

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	247.9		mg/Kg		99	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

GC VOA

Prep Batch: 3867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Total/NA	Solid	5035	
890-787-2	PH01A	Total/NA	Solid	5035	
890-787-3	PH02	Total/NA	Solid	5035	
890-787-4	PH02A	Total/NA	Solid	5035	
890-787-5	PH03	Total/NA	Solid	5035	
890-787-6	PH03A	Total/NA	Solid	5035	
890-787-7	PH04	Total/NA	Solid	5035	
890-787-8	PH04A	Total/NA	Solid	5035	
890-787-9	PH05	Total/NA	Solid	5035	
890-787-10	PH05A	Total/NA	Solid	5035	
890-787-11	PH06	Total/NA	Solid	5035	
890-787-12	PH06A	Total/NA	Solid	5035	
890-787-13	PH07	Total/NA	Solid	5035	
890-787-14	PH07A	Total/NA	Solid	5035	
MB 880-3867/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3867/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3867/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Total/NA	Solid	8021B	3867
890-787-2	PH01A	Total/NA	Solid	8021B	3867
890-787-3	PH02	Total/NA	Solid	8021B	3867
890-787-4	PH02A	Total/NA	Solid	8021B	3867
890-787-5	PH03	Total/NA	Solid	8021B	3867
890-787-6	PH03A	Total/NA	Solid	8021B	3867
890-787-7	PH04	Total/NA	Solid	8021B	3867
890-787-8	PH04A	Total/NA	Solid	8021B	3867
890-787-9	PH05	Total/NA	Solid	8021B	3867
890-787-10	PH05A	Total/NA	Solid	8021B	3867
890-787-11	PH06	Total/NA	Solid	8021B	3867
890-787-12	PH06A	Total/NA	Solid	8021B	3867
890-787-13	PH07	Total/NA	Solid	8021B	3867
890-787-14	PH07A	Total/NA	Solid	8021B	3867
MB 880-3867/5-A	Method Blank	Total/NA	Solid	8021B	3867
LCS 880-3867/1-A	Lab Control Sample	Total/NA	Solid	8021B	3867
LCSD 880-3867/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3867

GC Semi VOA

Analysis Batch: 3879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Total/NA	Solid	8015B NM	3908
890-787-2	PH01A	Total/NA	Solid	8015B NM	3908
890-787-3	PH02	Total/NA	Solid	8015B NM	3908
890-787-4	PH02A	Total/NA	Solid	8015B NM	3908
890-787-5	PH03	Total/NA	Solid	8015B NM	3908
890-787-6	PH03A	Total/NA	Solid	8015B NM	3908
890-787-7	PH04	Total/NA	Solid	8015B NM	3908
890-787-8	PH04A	Total/NA	Solid	8015B NM	3908
890-787-9	PH05	Total/NA	Solid	8015B NM	3908

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

GC Semi VOA (Continued)

Analysis Batch: 3879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-10	PH05A	Total/NA	Solid	8015B NM	3908
890-787-11	PH06	Total/NA	Solid	8015B NM	3908
890-787-12	PH06A	Total/NA	Solid	8015B NM	3908
890-787-13	PH07	Total/NA	Solid	8015B NM	3908
890-787-14	PH07A	Total/NA	Solid	8015B NM	3908
MB 880-3908/1-A	Method Blank	Total/NA	Solid	8015B NM	3908
LCS 880-3908/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3908
LCSD 880-3908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3908

Prep Batch: 3908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Total/NA	Solid	8015NM Prep	
890-787-2	PH01A	Total/NA	Solid	8015NM Prep	
890-787-3	PH02	Total/NA	Solid	8015NM Prep	
890-787-4	PH02A	Total/NA	Solid	8015NM Prep	
890-787-5	PH03	Total/NA	Solid	8015NM Prep	
890-787-6	PH03A	Total/NA	Solid	8015NM Prep	
890-787-7	PH04	Total/NA	Solid	8015NM Prep	
890-787-8	PH04A	Total/NA	Solid	8015NM Prep	
890-787-9	PH05	Total/NA	Solid	8015NM Prep	
890-787-10	PH05A	Total/NA	Solid	8015NM Prep	
890-787-11	PH06	Total/NA	Solid	8015NM Prep	
890-787-12	PH06A	Total/NA	Solid	8015NM Prep	
890-787-13	PH07	Total/NA	Solid	8015NM Prep	
890-787-14	PH07A	Total/NA	Solid	8015NM Prep	
MB 880-3908/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3908/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-11	PH06	Soluble	Solid	DI Leach	
890-787-12	PH06A	Soluble	Solid	DI Leach	
890-787-13	PH07	Soluble	Solid	DI Leach	
890-787-14	PH07A	Soluble	Solid	DI Leach	
MB 880-3883/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-3	PH02	Soluble	Solid	DI Leach	
890-787-4	PH02A	Soluble	Solid	DI Leach	
890-787-5	PH03	Soluble	Solid	DI Leach	
890-787-6	PH03A	Soluble	Solid	DI Leach	
890-787-7	PH04	Soluble	Solid	DI Leach	
890-787-8	PH04A	Soluble	Solid	DI Leach	
890-787-9	PH05	Soluble	Solid	DI Leach	
890-787-10	PH05A	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

HPLC/IC (Continued)

Leach Batch: 3885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3885/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3885/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3885/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 3899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Soluble	Solid	DI Leach	
890-787-2	PH01A	Soluble	Solid	DI Leach	
MB 880-3899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-11	PH06	Soluble	Solid	300.0	3883
890-787-12	PH06A	Soluble	Solid	300.0	3883
890-787-13	PH07	Soluble	Solid	300.0	3883
890-787-14	PH07A	Soluble	Solid	300.0	3883
MB 880-3883/1-A	Method Blank	Soluble	Solid	300.0	3883
LCS 880-3883/2-A	Lab Control Sample	Soluble	Solid	300.0	3883
LCSD 880-3883/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3883

Analysis Batch: 3933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-3	PH02	Soluble	Solid	300.0	3885
890-787-4	PH02A	Soluble	Solid	300.0	3885
890-787-5	PH03	Soluble	Solid	300.0	3885
890-787-6	PH03A	Soluble	Solid	300.0	3885
890-787-7	PH04	Soluble	Solid	300.0	3885
890-787-8	PH04A	Soluble	Solid	300.0	3885
890-787-9	PH05	Soluble	Solid	300.0	3885
890-787-10	PH05A	Soluble	Solid	300.0	3885
MB 880-3885/1-A	Method Blank	Soluble	Solid	300.0	3885
LCS 880-3885/2-A	Lab Control Sample	Soluble	Solid	300.0	3885
LCSD 880-3885/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3885

Analysis Batch: 3934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-787-1	PH01	Soluble	Solid	300.0	3899
890-787-2	PH01A	Soluble	Solid	300.0	3899
MB 880-3899/1-A	Method Blank	Soluble	Solid	300.0	3899
LCS 880-3899/2-A	Lab Control Sample	Soluble	Solid	300.0	3899
LCSD 880-3899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3899

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH01

Lab Sample ID: 890-787-1

Date Collected: 06/04/21 13:26

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 17:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 02:56	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:51	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-787-2

Date Collected: 06/04/21 13:28

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 17:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 03:17	AJ	XEN MID
Soluble	Leach	DI Leach			3899	06/08/21 14:58	CH	XEN MID
Soluble	Analysis	300.0		1	3934	06/10/21 15:56	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-787-3

Date Collected: 06/04/21 13:33

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 17:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 03:38	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 21:30	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-787-4

Date Collected: 06/04/21 13:53

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 18:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 03:59	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 21:45	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH03

Lab Sample ID: 890-787-5

Date Collected: 06/04/21 13:57

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 19:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 04:20	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 21:50	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-787-6

Date Collected: 06/04/21 13:59

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 19:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 04:41	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 21:55	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-787-7

Date Collected: 06/04/21 14:05

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 20:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 05:22	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 22:00	CH	XEN MID

Client Sample ID: PH04A

Lab Sample ID: 890-787-8

Date Collected: 06/04/21 14:08

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 20:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 05:43	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		1	3933	06/09/21 22:05	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH05

Lab Sample ID: 890-787-9

Date Collected: 06/04/21 14:15

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 20:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 06:04	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:46	CH	XEN MID
Soluble	Analysis	300.0		5	3933	06/09/21 22:09	CH	XEN MID

Client Sample ID: PH05A

Lab Sample ID: 890-787-10

Date Collected: 06/04/21 14:18

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 21:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 06:25	AJ	XEN MID
Soluble	Leach	DI Leach			3885	06/08/21 11:47	CH	XEN MID
Soluble	Analysis	300.0		5	3933	06/09/21 22:14	CH	XEN MID

Client Sample ID: PH06

Lab Sample ID: 890-787-11

Date Collected: 06/04/21 14:25

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 21:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 06:46	AJ	XEN MID
Soluble	Leach	DI Leach			3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1	3932	06/09/21 19:12	CH	XEN MID

Client Sample ID: PH06A

Lab Sample ID: 890-787-12

Date Collected: 06/04/21 14:28

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 21:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 07:07	AJ	XEN MID
Soluble	Leach	DI Leach			3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1	3932	06/09/21 19:17	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Client Sample ID: PH07

Lab Sample ID: 890-787-13

Date Collected: 06/04/21 14:30

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 22:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 07:28	AJ	XEN MID
Soluble	Leach	DI Leach			3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1	3932	06/09/21 19:22	CH	XEN MID

Client Sample ID: PH07A

Lab Sample ID: 890-787-14

Date Collected: 06/04/21 14:33

Matrix: Solid

Date Received: 06/07/21 10:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3867	06/08/21 08:54	KL	XEN MID
Total/NA	Analysis	8021B		1	3871	06/08/21 22:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			3908	06/08/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3879	06/09/21 07:49	AJ	XEN MID
Soluble	Leach	DI Leach			3883	06/08/21 11:43	CH	XEN MID
Soluble	Analysis	300.0		1	3932	06/09/21 19:27	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 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

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	T104704400-20-21	06-30-21

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-787-1
SDG: TE012920137

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-787-1	PH01	Solid	06/04/21 13:26	06/07/21 10:56	- 1
890-787-2	PH01A	Solid	06/04/21 13:28	06/07/21 10:56	- 3
890-787-3	PH02	Solid	06/04/21 13:33	06/07/21 10:56	- 1
890-787-4	PH02A	Solid	06/04/21 13:53	06/07/21 10:56	- 3
890-787-5	PH03	Solid	06/04/21 13:57	06/07/21 10:56	- 1
890-787-6	PH03A	Solid	06/04/21 13:59	06/07/21 10:56	- 3
890-787-7	PH04	Solid	06/04/21 14:05	06/07/21 10:56	- 1
890-787-8	PH04A	Solid	06/04/21 14:08	06/07/21 10:56	- 3
890-787-9	PH05	Solid	06/04/21 14:15	06/07/21 10:56	- 1
890-787-10	PH05A	Solid	06/04/21 14:18	06/07/21 10:56	- 3
890-787-11	PH06	Solid	06/04/21 14:25	06/07/21 10:56	- 1
890-787-12	PH06A	Solid	06/04/21 14:28	06/07/21 10:56	- 3
890-787-13	PH07	Solid	06/04/21 14:30	06/07/21 10:56	- 1
890-787-14	PH07A	Solid	06/04/21 14:33	06/07/21 10:56	- 3



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 Caspabad, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 699-6701

Chain of Custody

Work Order No: _____

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6/10/2021

Project Manager:	Kalei Jennings	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greentest
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Caspabad, NM 88220
Phone:	(817) 683-2503	Email:	Kalei.jennings@wsp.com, fatima.smith@xenco.com

Project Name:	PLU 28 B5 126H	Turn Around	☒
Project Number:	TE012920137	Routine	☒
Project Location:	Eddy county	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT		Temp Blank:	☒ Yes ☒ No	Wet Ice:	☒ Yes ☒ No
Temperature (°C):	7.6/2.4	Thermometer ID			
Received Intact:	☒ Yes ☒ No	Correction Factor:	-0.2		
Cooler Custody Seals:	☒ Yes ☒ No ☒ N/A	Total Containers:			
Sample Custody Seals:	☒ Yes ☒ No ☒ N/A				

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
PH01	S	6/4/21	1326	1'	1	TPH (EPA 8015)		MeOH: Me	
PH01A			1328	1'		BTEX (EPA 0=8021)		None: NO	
PH02			1333	1'		Chloride (EPA 300.0)		HNO3: HN	
PH02A			1353	3'				H2SO4: H2	
PH03			1357	1'				HCL: HL	
PH03A			1359	3'				NaOH: Na	
PH04			1405	1'				Zn Acetate+ NaOH: Zn	
PH04A			1408	3'					
PH05			1415	1'					
PH05A			1418	3'					

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 or subcontractors are due to circumstances beyond the control of Xenco. Xenco shall not be liable for any damages, including but not limited to, consequential damages, arising from the use of the samples. 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>	6/7/21 / 10:42			

Incident NRM2026238329
 CC 1667081001

Revised Date 02/26/15 Rev 2015.1



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 302-0300 San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Work Order No: _____

Page 2 of 2

Project Manager:	Kale Jennings	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greene St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(817) 683-2503	Email:	Kale.jennings@wsp.com, fatma.smith@xenco.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU 28 BS 126H	Turn Around	☒
Project Number:	TE012920137	Routine	☒
Project Location:	Eddy county	Rush:	
Sampler's Name:	Fatma Smith	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temperature (°C):	Temp Blank:	Wet Ice:	Thermometer ID
	Received Intact:	Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐
	Cooler Custody Seals:	Yes ☒ No ☐ N/A ☐	Correction Factor:	-0.2
	Sample Custody Seals:	Yes ☒ No ☐ N/A ☐	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
PH06		S	8/4/21	1425	1'	1	TPH (EPA 8015)	MeOH: Me	
PH06A				1428	3'		BTEX (EPA 0 = 8021)	None: NO	
PH07				1430	1'		Chloride (EPA 300.0)	HNO3: HN	
PH07A				1433	3'			H2SO4: H2	
								HCL: HL	
								NaOH: Na	
								Zn Acetate+ NaOH: Zn	
								TAT starts the day received by the lab, if received by 4:00pm	

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 the sample and the cost of the analysis. It does not constitute an agreement to analyze any other samples or to provide any other services. Xenco will be liable only for the cost of the sample and the cost of the analysis. It does not constitute an agreement to analyze any other samples or to provide any other services. Xenco will be liable only for the cost of the sample and the cost of the analysis. It does not constitute an agreement to analyze any other samples or to provide any other services.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Fatma</i>	<i>N. CC</i>	8/7/21 / 10:56			

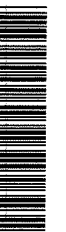
Incident NRM 2026238329
CC 1667081001

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Eurofins Xenco, Carlsbad

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

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact:		Phone		Kramer Jessica				890-253 1	
Shipping/Receiving		E-Mail		jessica.kramer@eurofinsnet.com		State of Origin		Page: 1 of 2	
Company		Eurofins Xenco		Accreditations Required (See note)		New Mexico		Job #:	
Address		1211 W Florida Ave		NELAP - Louisiana		NELAP - Texas		890-787-1	
City		Midland		TAT Requested (days):		Analysis Requested		Preservation Codes	
State, Zip		TX, 79701		PO #:				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amnol H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email		432-704-5440(Tel)		WO #				M - Hexane N - None O - AsenAO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Project Name:		PLU 28 BS 126H		Project #:		89000004			
Site				SSOW#					
Sample Identification - Client ID (Lab ID)									
PH01 (890-787-1)	Sample Date	6/4/21	Sample Time	13 26	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=soil, O=water, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH
PH01A (890-787-2)	6/4/21	Mountain	13 28	Solid			X	X	X
PH02 (890-787-3)	6/4/21	Mountain	13 33	Solid			X	X	X
PH02A (890-787-4)	6/4/21	Mountain	13 53	Solid			X	X	X
PH03 (890-787-5)	6/4/21	Mountain	13 57	Solid			X	X	X
PH03A (890-787-6)	6/4/21	Mountain	13 59	Solid			X	X	X
PH04 (890-787-7)	6/4/21	Mountain	14 05	Solid			X	X	X
PH04A (890-787-8)	6/4/21	Mountain	14 08	Solid			X	X	X
PH05 (890-787-9)	6/4/21	Mountain	14 15	Solid			X	X	X
Special Instructions/Note:									
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/estimation, being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.									
Possible Hazard Identification									
Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2									
Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____									
Relinquished by _____ Date/Time: _____ Company _____ Received by _____ Date/Time: _____ Company _____									
Relinquished by _____ Date/Time: _____ Company _____ Received by _____ Date/Time: _____ Company _____									
Custody Seals Intact: _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____									

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.							
Client Contact:		Phone	Kramer Jessica		890-253.2							
Shipping/Receiving			E-Mail: Jessica.kramer@eurofins.com	State of Origin: New Mexico	Page 2 of 2							
Company: Eurofins Xenco		Due Date Requested	Accreditations Required (See note) NELAP - Louisiana NELAP - Texas		Job #: 890-787-1							
Address: 1211 W Florida Ave		6/11/2021										
City: Midland		TAT Requested (days)										
State Zip: TX 79701												
Phone: 432-704-5440(Tel)		PO #										
Email: WOC #												
Project Name: PLU 28 BS 126H		Project #										
Site: SSOV#		89000004										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFMM_28D/DI_LEACH Chloride	8021B/6035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
PH06A (890-787-11)	6/4/21	14 25	Mountain	Solid	X	X	X	X	X	X	1	
PH06A (890-787-12)	6/4/21	14 28	Mountain	Solid	X	X	X	X	X	X	1	
PH07 (890-787-13)	6/4/21	14 30	Mountain	Solid	X	X	X	X	X	X	1	
PH07A (890-787-14)	6/4/21	14 33	Mountain	Solid	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.												
Possible Hazard Identification Unconfirmed Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months												
Empty Kit Relinquished by: Date/Time: Company: Method of Shipment: Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company: Custody Seal Intact: ☐ Yes ☐ No Custody Seal No: Cooler Temperature(s) °C and Other Remarks:												

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-787-1

SDG Number: TE012920137

Login Number: 787

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: 890-787-1

SDG Number: TE012920137

Login Number: 787

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 06/08/21 01:18 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1143-1
Laboratory Sample Delivery Group: TE012920137
Client Project/Site: PLU 28 BS 126H

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

Attn: Dan Moir

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

Authorized for release by:
8/24/2021 4:37:44 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 28 BS 126H

Laboratory Job ID: 890-1143-1
SDG: TE012920137

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

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
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.
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
SQL	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 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Job ID: 890-1143-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative	
	Job Narrative 890-1143-1

Receipt

The samples were received on 8/23/2021 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Client Sample ID: FS01

Lab Sample ID: 890-1143-1

Date Collected: 08/20/21 14:14

Matrix: Solid

Date Received: 08/23/21 08:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:32	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/24/21 09:33	08/24/21 13:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/24/21 09:33	08/24/21 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/24/21 10:46	08/24/21 13:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/24/21 10:46	08/24/21 13:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/24/21 10:46	08/24/21 13:57	1
Total TPH	<49.9	U	49.9	mg/Kg		08/24/21 10:46	08/24/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/24/21 10:46	08/24/21 13:57	1
o-Terphenyl	109		70 - 130	08/24/21 10:46	08/24/21 13:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.1		4.97	mg/Kg			08/24/21 13:24	1

Client Sample ID: FS02

Lab Sample ID: 890-1143-2

Date Collected: 08/20/21 14:27

Matrix: Solid

Date Received: 08/23/21 08:32

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:53	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/24/21 09:33	08/24/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/24/21 09:33	08/24/21 13:53	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/24/21 09:33	08/24/21 13:53	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Client Sample ID: FS02

Lab Sample ID: 890-1143-2

Date Collected: 08/20/21 14:27

Matrix: Solid

Date Received: 08/23/21 08:32

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/24/21 10:46	08/24/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/24/21 10:46	08/24/21 14:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/24/21 10:46	08/24/21 14:18	1
Total TPH	<49.8	U	49.8	mg/Kg		08/24/21 10:46	08/24/21 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/24/21 10:46	08/24/21 14:18	1
o-Terphenyl	109		70 - 130	08/24/21 10:46	08/24/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.5		4.95	mg/Kg			08/24/21 13:39	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

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)
890-1143-1	FS01	110	110
890-1143-1 MS	FS01	101	111
890-1143-2	FS02	104	90
LCS 880-6974/1-A	Lab Control Sample	151 S1+	151 S1+
LCSD 880-6974/2-A	Lab Control Sample Dup	151 S1+	148 S1+
MB 880-6974/5-A	Method Blank	99	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-1143-1 MSD	FS01		
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)
880-5361-A-1-D MS	Matrix Spike	88	90
880-5361-A-1-E MSD	Matrix Spike Duplicate	87	89
890-1143-1	FS01	95	109
890-1143-2	FS02	96	109
LCS 880-6994/2-A	Lab Control Sample	88	95
LCSD 880-6994/3-A	Lab Control Sample Dup	90	97
MB 880-6994/1-A	Method Blank	93	61 S1-
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6974/5-A

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6974

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/21 09:33	08/24/21 13:11	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/24/21 09:33	08/24/21 13:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/24/21 09:33	08/24/21 13:11	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/24/21 09:33	08/24/21 13:11	1

Lab Sample ID: LCS 880-6974/1-A

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07110		mg/Kg		71	70 - 130
Toluene	0.100	0.07777		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.08563		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1715		mg/Kg		86	70 - 130
o-Xylene	0.100	0.09416		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130

Lab Sample ID: LCSD 880-6974/2-A

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6974

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07100		mg/Kg		71	70 - 130	0	35
Toluene	0.100	0.07576		mg/Kg		76	70 - 130	3	35
Ethylbenzene	0.100	0.08628		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1719		mg/Kg		86	70 - 130	0	35
o-Xylene	0.100	0.09376		mg/Kg		94	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	148	S1+	70 - 130

Lab Sample ID: 890-1143-1 MSD

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 6974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.05464		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

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

Lab Sample ID: 890-1143-1 MSD

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 6974

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00199	U	0.0990	0.03925		mg/Kg					
Ethylbenzene	<0.00199	U	0.0990	0.03168		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.198	0.06513		mg/Kg					
o-Xylene	<0.00199	U	0.0990	0.03927		mg/Kg					

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

Lab Sample ID: 890-1143-1 MS

Matrix: Solid

Analysis Batch: 6975

Client Sample ID: FS01

Prep Type: Total/NA

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

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

Lab Sample ID: MB 880-6994/1-A

Matrix: Solid

Analysis Batch: 6980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6994

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		08/24/21 10:46	08/24/21 11:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/24/21 10:46	08/24/21 11:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/24/21 10:46	08/24/21 11:47	1
Total TPH	<50.0	U	50.0	mg/Kg		08/24/21 10:46	08/24/21 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/24/21 10:46	08/24/21 11:47	1
o-Terphenyl	61	S1-	70 - 130	08/24/21 10:46	08/24/21 11:47	1

Lab Sample ID: LCS 880-6994/2-A

Matrix: Solid

Analysis Batch: 6980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	879.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	954.7		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	95		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

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

Lab Sample ID: LCSD 880-6994/3-A

Matrix: Solid

Analysis Batch: 6980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	896.6		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	965.5		mg/Kg		97	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	97		70 - 130						

Lab Sample ID: 880-5361-A-1-D MS

Matrix: Solid

Analysis Batch: 6980

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	838.6		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	995	930.2		mg/Kg		93	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	88		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 880-5361-A-1-E MSD

Matrix: Solid

Analysis Batch: 6980

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6994

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	<50.0	U	998	847.8		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	921.8		mg/Kg		92	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6996/1-A

Matrix: Solid

Analysis Batch: 7001

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			08/24/21 11:32	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-6996/2-A

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	250.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-6996/3-A

Matrix: Solid

Analysis Batch: 7001

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	250.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-5308-A-45-E MS

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	781	F1	249	957.4	F1	mg/Kg		71	90 - 110

Lab Sample ID: 880-5308-A-45-F MSD

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	781	F1	249	958.7	F1	mg/Kg		71	90 - 110	0	20

Lab Sample ID: 880-5310-A-10-H MSD

Matrix: Solid

Analysis Batch: 7001

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U	250	251.1		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

GC VOA

Prep Batch: 6974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Total/NA	Solid	5035	
890-1143-2	FS02	Total/NA	Solid	5035	
MB 880-6974/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6974/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6974/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1143-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 6975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Total/NA	Solid	8021B	6974
890-1143-2	FS02	Total/NA	Solid	8021B	6974
MB 880-6974/5-A	Method Blank	Total/NA	Solid	8021B	6974
LCS 880-6974/1-A	Lab Control Sample	Total/NA	Solid	8021B	6974
LCSD 880-6974/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6974
890-1143-1 MS	FS01	Total/NA	Solid	8021B	
890-1143-1 MSD	FS01	Total/NA	Solid	8021B	6974

GC Semi VOA

Analysis Batch: 6980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Total/NA	Solid	8015B NM	6994
890-1143-2	FS02	Total/NA	Solid	8015B NM	6994
MB 880-6994/1-A	Method Blank	Total/NA	Solid	8015B NM	6994
LCS 880-6994/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6994
LCSD 880-6994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6994
880-5361-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	6994
880-5361-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6994

Prep Batch: 6994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Total/NA	Solid	8015NM Prep	
890-1143-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-6994/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6994/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5361-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5361-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Soluble	Solid	DI Leach	
890-1143-2	FS02	Soluble	Solid	DI Leach	
MB 880-6996/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6996/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6996/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5308-A-45-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5308-A-45-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-5310-A-10-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

HPLC/IC

Analysis Batch: 7001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1143-1	FS01	Soluble	Solid	300.0	6996
890-1143-2	FS02	Soluble	Solid	300.0	6996
MB 880-6996/1-A	Method Blank	Soluble	Solid	300.0	6996
LCS 880-6996/2-A	Lab Control Sample	Soluble	Solid	300.0	6996
LCSD 880-6996/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6996
880-5308-A-45-E MS	Matrix Spike	Soluble	Solid	300.0	6996
880-5308-A-45-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6996
880-5310-A-10-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6996

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Client Sample ID: FS01

Lab Sample ID: 890-1143-1

Date Collected: 08/20/21 14:14

Matrix: Solid

Date Received: 08/23/21 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6974	08/24/21 09:33	KL	XEN MID
Total/NA	Analysis	8021B		1	6975	08/24/21 13:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			6994	08/24/21 10:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6980	08/24/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			6996	08/24/21 11:45	CH	XEN MID
Soluble	Analysis	300.0		1	7001	08/24/21 13:24	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1143-2

Date Collected: 08/20/21 14:27

Matrix: Solid

Date Received: 08/23/21 08:32

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6974	08/24/21 09:33	KL	XEN MID
Total/NA	Analysis	8021B		1	6975	08/24/21 13:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			6994	08/24/21 10:46	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6980	08/24/21 14:18	AJ	XEN MID
Soluble	Leach	DI Leach			6996	08/24/21 11:45	CH	XEN MID
Soluble	Analysis	300.0		1	7001	08/24/21 13:39	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 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

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	T104704400-20-21	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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (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.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 28 BS 126H

Job ID: 890-1143-1
SDG: TE012920137

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1143-1	FS01	Solid	08/20/21 14:14	08/23/21 08:32	0.5
890-1143-2	FS02	Solid	08/20/21 14:27	08/23/21 08:32	0.5

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

Incident # NRM20206238329
Cost Center 1667081001



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Aimee Cole	Bill to: (if different)	Kyle L. Hurrell
Company Name:	W&B USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Greene St
City, State ZIP:	Midland TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(720) 384-7345	Email:	aimee.cole@wbsp.com

Work Order Comments			
Program: UST/PST	☐ PRP	☐ Brownfields	☐ RRC
☐ Superfund			
State of Project:			
Reporting: Level II	☐ Level III	☐ PST/UST	☐ TRRP
☐ Level IV			
Deliverables: EDD ☐ ADAPT ☐ Other: _____			

Project Name:	PLU 28 BS 126H	Turn Around	Pres. Code
Project Number:	TE012920137	☐ Routine ☒ Rush	
Project Location:	Eddy County	Due Date:	24hrs
Sample's Name:	Fathma Smith	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			
SAMPLE RECEIPT			
Temp Blank:	☒ No	Wet Ice:	☒ Yes ☐ No
Samples Received Inact:	☒ Yes ☐ No	Thermometer ID:	7NML007
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes ☒ No ☐ N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0
Parameters			
Sample Identification	Matrix	Date Sampled	Time Sampled
Depth	Grab	# of Cont	
TPH (EPA 8015)			
BTEX (EPA 0-8021)			
Chloride (EPA 300.0)			
ANALYSIS REQUEST			
Preservative Codes			
None: NO	DI Water: H ₂ O		
Cool: Cool	MeOH: Me		
HCL: HC	HNO ₃ : HN		
H ₂ SO ₄ : H ₂	NaOH: Na		
H ₃ PO ₄ : HP			
NaHSO ₄ : NABIS			
Na ₂ S ₂ O ₅ : NaSO ₃			
Zn Acetate+NaOH: Zn			
NaOH+Ascorbic Acid: SAPC			
Sample Comments			



880-1143 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
CERCLA Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471				
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.				
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)
Fathma	Cole	8/23/21 08:22		

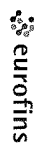
Eurofins Xenco, Carlsbad

1089 N Canal St

Carlsbad NM 88220

Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1143-1

SDG Number: TE012920137

Login Number: 1143

List Number: 1

Creator: Olivas, Nathaniel

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: 890-1143-1

SDG Number: TE012920137

Login Number: 1143

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 08/24/21 11:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4/2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 44321

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 44321
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2026238329 PLU 28 BS 126H, thank you. This closure is approved.	11/22/2021