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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

2WV7H-191126-C-1410

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 32.182170 Longitude -103.880355
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU Pierce Canyon 28 DTB	Site Type Well Location
Date Release Discovered 11/13/2019	API# *(if applicable)* 30-015-36830 (PLU CVX JV PC #003H)

Unit Letter	Section	Township	Range	County
P	28	24S	30E	EDDY

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 2.41	Volume Recovered (bbls) 2.0
☒ Produced Water	Volume Released (bbls) 9.62	Volume Recovered (bbls) 8.0
	Is the concentration of dissolved chloride 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)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A circulating line from the oil tank to the gun barrel tank had a leak due to corrosion. 12.03 bbls were released and 10.0 bbls were recovered by vacuum truck. Additional third party resources have been retained to assist in the remediation.

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Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

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 not been undertaken, explain why:

N/A

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 11/26/2019

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Cristina Eads Date: 01/27/2020

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Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: Environmental Manager

Signature: Date: 6-8-21

email: kyle.littrell@exxonmobil.com Telephone: 432-221-7331

OCD Only

Received by: Date:

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Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- ☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☑ Extents of contamination must be fully delineated.
- ☑ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kyle Littrell Title: Environmental Manager

Signature: [signature] Date: 6-8-21

email: kyle.littrell@exxonmobil.com Telephone: 432-221-7331

OCD Only

Received by: Chad Hensley Date: 07/12/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Chad Hensley Date: 07/12/2021

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

June 3, 2021

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

Re: Closure and Deferral Request
Poker Lake Unit Pierce Canyon 28
Incident Numbers/Remediation Permit Number: NRM1931858285 (2RP-5697) and NCE2002742193
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Closure and Deferral Request as an update to the approved Remediation Work Plan submitted on December 23, 2020 for the Poker Lake Unit Pierce Canyon 28 (Site) in Unit P, Section 28, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The Remediation Work Plan proposed to complete additional delineation activities for closure of Incident Number NRM1931858285/2RP-5697 and to advance additional lateral delineation points for deferral of Incident Number NCE2002742193.

The Work Plan was approved by the New Mexico Oil Conservation Division (NMOCD) on March 10, 2021 for Incident Number NRM1931858285/2RP-5697 and April 8, 2021 for Incident Number NCE2002742193. The following report describes the implementation of the final delineation soil sampling activities as outlined in the Remediation Work Plan. Based on the delineation activities, soil sample laboratory analytical results, and completion of remediation activities as outlined in the approved Remediation Work Plan, XTO is requesting closure for NRM1931858285 (2RP-5697) and deferral of Incident Number NCE2002742193 until the facility is decommissioned or until major facility construction occurs.

RELEASE BACKGROUND

Incident Number NRM1931858285 (2RP-5697)

On October 7, 2019, a produced water flowline developed a leak, resulting in the release of approximately 52.54 barrels (bbls) of produced water into a lined containment and onto the caliche well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding

fluids, of which approximately 52.0 bbls of produced water were recovered from within the lined containment. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on October 14, 2019 and was subsequently assigned Incident Number NRM1931858285 and Remediation Permit (RP) Number 2RP-5697.

Incident Number NCE2002742193

On November 13, 2019, a circulating line from an oil tank to the gun barrel tank developed a leak due to corrosion, resulting in the release of 2.41 bbls of crude oil and 9.62 bbls of produced water onto the caliche well pad around the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 2.0 bbls of crude oil and 8.0 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification and Form C-141 on November 26, 2019 and was subsequently assigned Incident Number NCE2002742193.

CLOSURE CRITERIA

As detailed in the approved Remediation Work Plan and based on 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 receptors are identified on Figure 1.

REMEDIATION WORK PLAN IMPLEMENTATION

This Closure and Deferral report only includes a summary of the completed delineation activities outlined in the approved Remediation Work Plan. All previous remediation activities, soil sample analytical results, and site characterization can be referenced in the original report.

Incident Number NCE2002742193

On April 22, 2021, WSP utilized a Core Drill to install four coreholes (CH01 through CH04) at the Site to provide additional lateral delineation outside the lined tank battery containment, as outlined in the approved Remediation Work Plan. Due to the location of the release, a Hot Work Permit was necessary to conduct investigative motor or electric powered drilling methods within

35 feet of any hydrocarbon sources. In coordination with XTO, an XTO safety representative was retained to conduct air monitoring as part of the permit process for investigative core drilling activities. The coreholes were advanced to a depth of approximately 4 feet bgs. Two soil samples were collected from each corehole: the soil interval with the highest field screening result (0 to 2.5 feet bgs) and the terminus of the core hole (2.5 feet to 4 feet bgs). Soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each corehole were recorded on a lithologic/soil sampling log which are included in Attachment 1. Photographic documentation from core drilling activities is included in Attachment 2. The corehole locations are presented on Figure 2.

As a condition of the Remediation Work Plan approval, NMOCD requested further sampling of floor sample FS05 to a depth greater than 1-foot bgs to ensure deeper impacted soil was not left in place. On May 4, 2021, WSP personnel returned to the Site to conduct additional sampling in the area of floor sample FS05 to confirm that no residual impacts remained below 1-foot bgs. WSP collected a 5-point composite soil sample (FS05) via hand auger from a depth of 1.5 feet bgs from the original FS05 location. The FS05@1.5' soil sample location is presented on Figure 2.

The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Eurofins Xenco LLC. (Eurofins) in Midland, Texas, for analysis of BTEX following United States EPA Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria for all corehole delineation soil samples and the FS05@1.5' confirmation soil sample. The laboratory analytical results are summarized on the attached Table 1. The complete laboratory analytical reports for Incident Numbers NCE2002742193 and NRM1931858285 (2RP-5697) are included as Attachment 3.

Laboratory analytical results from coreholes CH01 through CH04 provide the additional lateral delineation of impacted soil for deferral as outlined in the approved Remediation Work Plan. The deferral area is shown on Figure 3. Laboratory analytical results for soil sample FS05@1.5' confirmed that impacted soil does not extend deeper than 1-foot bgs at the original FS05 location, which fulfills NMOCD's condition of approval.

Incident Number NRM1931858285 (2RP-5697)

On April 22, 2021, WSP utilized a Core Drill to install one corehole (CH05) within the release extent south of the lined containment to further confirm the absence of impacted soil, as outlined in the approved Remediation Work Plan. Two soil samples were collected from corehole CH05: the soil interval with the highest field screening result (0 to 2.5 feet bgs) and the terminus of the core hole (2.5 feet to 4 feet bgs). The soil samples were field screened, collected, handled, and analyzed as described above. Field screening results and observations for each corehole were recorded on a lithologic/soil sampling log which are included in Attachment 1. The CH05 corehole location is presented on Figure 4.

Laboratory analytical results for the delineation soil samples from corehole CH05 indicate benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and confirm the absence of impacted soil south of the lined containment. The laboratory analytical results are summarized on the attached Table 1. The complete laboratory analytical reports for Incident Number NRM1931858285 (2RP-5697) are included as Attachment 3.

CLOSURE REQUEST

Incident Number NRM1931858285 (2RP-5697)

Per the approved Remediation Work Plan, WSP conducted core drilling activities to further confirm the absence of impacts associated with the subject release. Laboratory analytical results for corehole CH05 indicate compliance with the Closure Criteria south of the lined containment. Remediation of impacted soils associated with the subject release was successfully achieved. All impacted soil was removed from the release areas until laboratory analytical results confirmed compliance with Closure Criteria. This included excavation of approximately 37 cubic yards of soil as detailed in the Remediation Work Plan. Based on the additional laboratory analytical results for the delineation soil samples from corehole CH05 as described in this report, no further remediation is warranted. XTO requests Closure for Incident Number NRM1931858285 (2RP-5697).

DEFERRAL REQUEST

Incident Number NCE2002742193

Per the approved Remediation Work Plan, WSP conducted core drilling activities (CH01 through CH04) onsite to confirm additional lateral delineation of the subject release. Additional sampling below 1-foot bgs at FS05 was also performed to fulfill the condition issued by the NMOCD. Laboratory analytical results for CH01 through CH04 indicate compliance with the horizontal

lateral delineation requirements; additional sample collection at FS05 concluded that impacts do not extend beyond 1-foot bgs.

As documented in the Remediation Work Plan, remediation of impacted soils associated with the subject release was successfully achieved to the extent possible, which included an excavation of approximately 85 cubic yards of soil and utilizing a bio remedial agent to address residual hydrocarbon impacts. Further excavation of impacted soil was limited by the presence of active production equipment, pipelines, and electrical sources. XTO safety policy was enforced where impacted soil was identified within 2 feet of active production equipment or pipelines. Based on current delineation and excavation soil sample laboratory analytical results, vertical extent of impacted soil does not exceed 1.5 feet bgs on the east side of the lined tank battery containment and 3 feet bgs on the south side of the lined tank battery containment. As a result, approximately 40 cubic yards of impacted soil are estimated to be left in place. The deferral area is shown on Figure 3.

XTO requests to complete remediation during any major future well pad construction/alteration or final plugging and abandonment, whichever occurs first. WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Based on the additional data collected as described in this report, impacts have been fully delineated, and no further soil removal can occur safely at this time. XTO requests Deferral for Incident Number NCE2002742193.

XTO and WSP have completed the remediation activities outlined in the approved Remediation Work Plan for Incident Numbers NRM1931858285 (2RP-5697) and NCE2002742193 and fulfilled the condition for approval given by the NMOCD for Incident Number NCE2002742193. If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Kind regards,

Anna Byers
Consultant, Geologist

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

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations - NCE2002742193
Figure 3	Deferral Area - NCE2002742193
Figure 4	Delineation Soil Sample Locations - NRM1931858285 (2RP-5697)
Table 1	Soil Analytical Results
Attachment 1	Lithologic/Sampling Logs
Attachment 2	Photographic Log
Attachment 3	Laboratory Analytical Reports - NCE2002742193 and NRM1931858285 (2RP-5697)

FIGURES

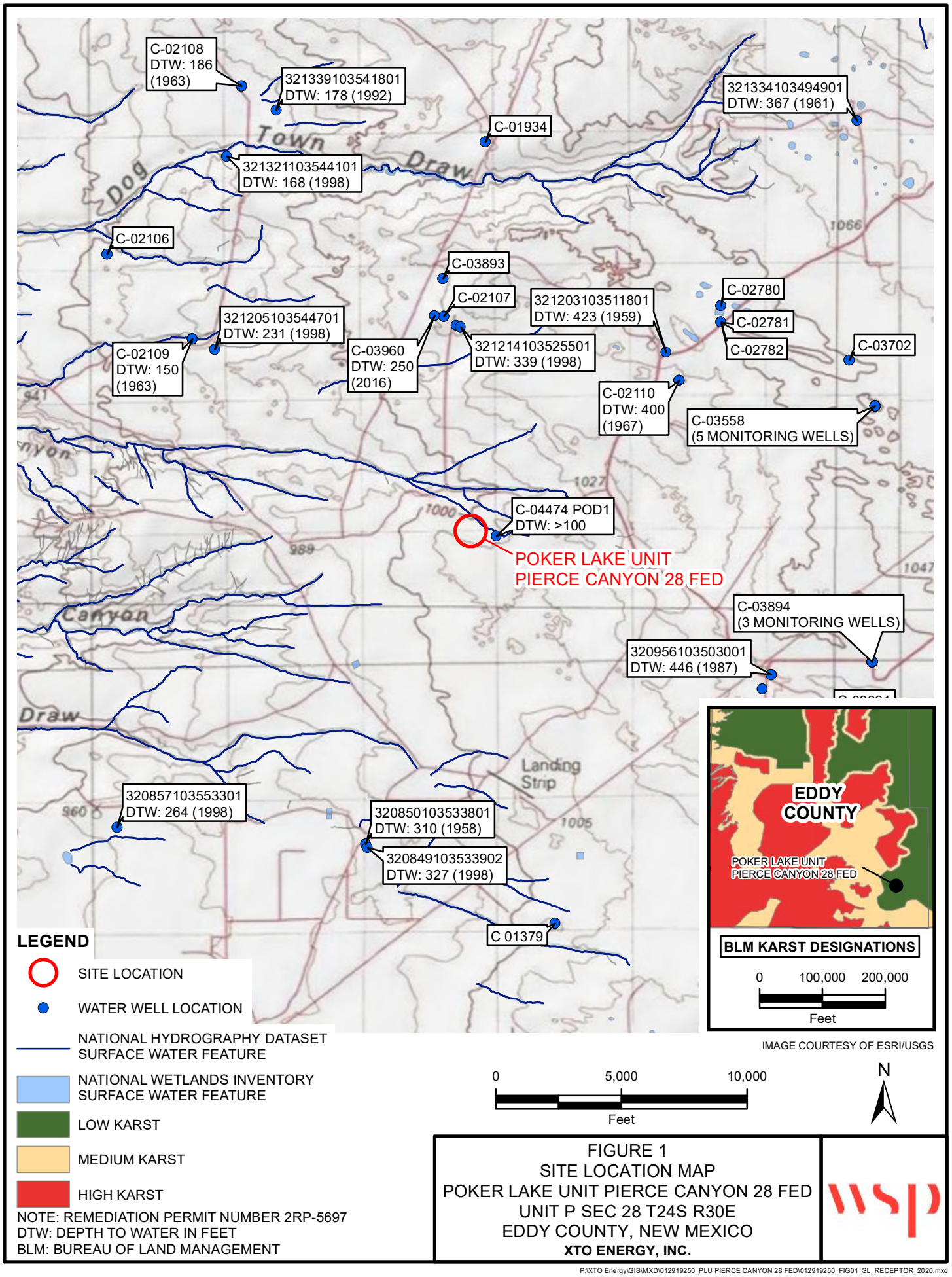
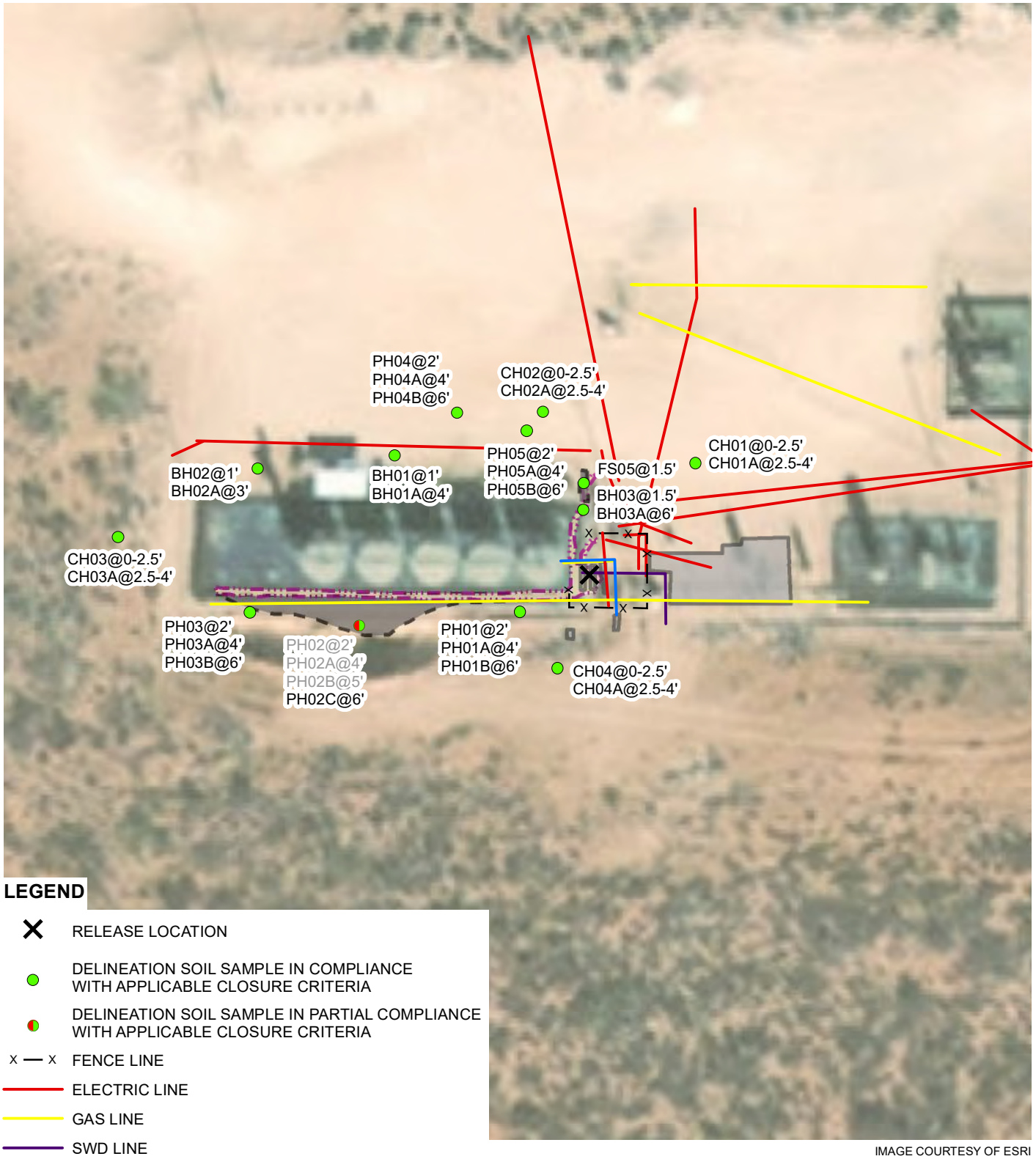


FIGURE 1
SITE LOCATION MAP
POKER LAKE UNIT PIERCE CANYON 28 FED
UNIT P SEC 28 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919250_PLU PIERCE CANYON 28 FED\012919250_FIG01_SL_RECEPTOR_2020.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN PARTIAL COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FENCE LINE
- ELECTRIC LINE
- GAS LINE
- SWD LINE
- WATER LINE
- RELEASE EXTENT
- EXCAVATION EXTENT
- INFRASTRUCTURE

NOTE: INCIDENT NUMBER NCE2002742193
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

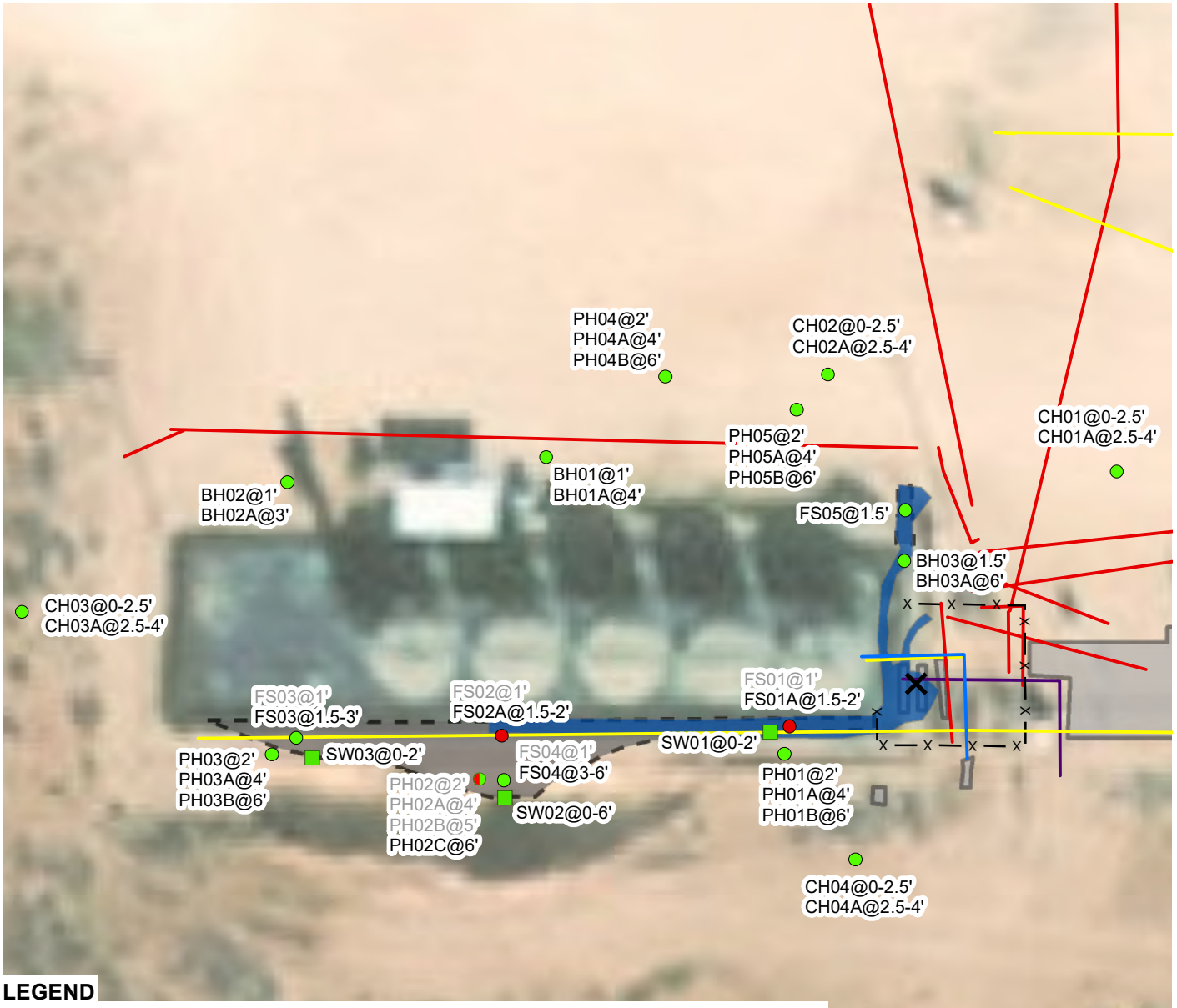
IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT PIERCE CANYON 28 DTB
UNIT P SEC 28 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919281_PLU PC 28 BATTERY-PLU CVX JV PC 003H\012919281_FIG02_DELINEATION_2020.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN PARTIAL COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FENCE LINE
- ELECTRIC LINE
- GAS LINE
- SWD LINE
- WATER LINE
- EXCAVATION EXTENT
- INFRASTRUCTURE
- DEFERRAL AREA

NOTE: INCIDENT NUMBER NCE2002742193
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

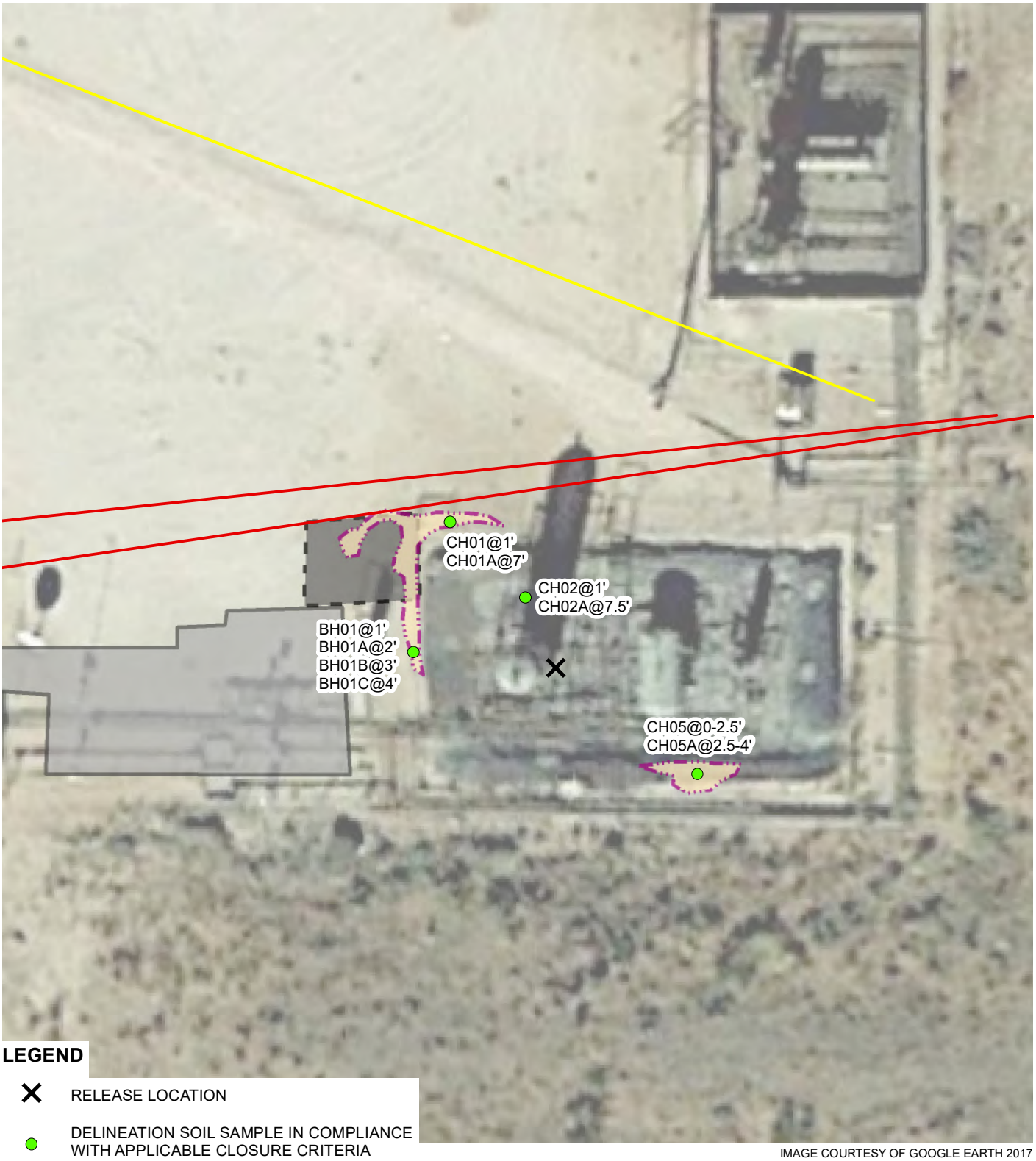
IMAGE COURTESY OF ESRI

0 30 60
Feet

N

FIGURE 3
DEFERRAL AREA
POKER LAKE UNIT PIERCE CANYON 28 DTB
UNIT P SEC 28 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919281_PLU PC 28 BATTERY-PLU CVX JV PC 003H\012919281_FIG03_DEFERRAL_2021.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- ELECTRIC LINE
- RELEASE EXTENT
- INFRASTRUCTURE
- EXCAVATION EXTENT

NOTE: REMEDIATION PERMIT NUMBER 2RP-5697
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF GOOGLE EARTH 2017

0 20 40
Feet

N

FIGURE 4
DELINEATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT PIERCE CANYON 28 FED
UNIT P SEC 28 T24S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919250_PLU PIERCE CANYON 28 FED\012919250_FIG03C_DELINEATION_2020.mxd

TABLES

Table 1

Soil Analytical Results
Poker Lake Unit Pierce Canyon 28
Incident Numbers NCE2002742193 and NRM1931858285 (2RP-5697)
XTO Energy, Inc.
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
Delineation Samples (NCE2002742193)										
CH01	04/22/2021	0 - 2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	18.0
CH01A	04/22/2021	2.5 - 4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	23.8
CH02	04/22/2021	0 - 2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.8
CH02A	04/22/2021	2.5 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	8.20
CH03	04/22/2021	0 - 2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	400
CH03A	04/22/2021	2.5 - 4	0.00201	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	465
CH04	04/22/2021	0 - 2.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	520
CH04A	04/22/2021	2.5 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	246
FS05	05/04/2021	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	343
Delineation Samples (NRM1931858285 (2RP-5697))										
CH05	04/22/2021	0 - 2.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	237
CH05A	04/22/2021	2.5 - 4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	53.4

Notes:

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

ATTACHMENT 1: LITHOLOGIC/SOIL SAMPLING LOG

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	Name: CH01	Date: 4/22/2021
	Site Name: PLU PC 28 Battery	
	Incident Number: NCE2002742193	
	WSP Job Number: TE012919250	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By WM, TC	Method: Core Drill
Lat/Long: 32.182279, -103.880234	Field Screening: HACH Chloride Test Strips, PID	Hole Diameter: 2" / Total Depth (TD): 4'

Comments:
40% Correction factor included in Chloride concentrations. "M" Moisture Content - Moist

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0	CCHE	Caliche, poor to moderate consolidation, some sand, tan/brown
M	<156	0	N	CH01	0-2.5	1		
						2	SW-SM	Sand (c.), well graded, some silt, brown/red
M	<156	0.1	N	CH01A	2.5-4	3		
						4		TD @ 4' bgs
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

Name:	Date:
CH02	4/22/2021

Site Name: PLU PC 28 Battery

Incident Number: NCE2002742193

WSP Job Number: TE012919250

LITHOLOGIC / SOIL SAMPLING LOG

Logged By	Method
WM, TC	Core Drill

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth (TD):
32.182321, -103.880384	HACH Chloride Test Strips, PID	2"	4'

Comments:
40% Correction factor included in Chloride concentrations. "M" Moisture Content - Moist

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0	CCHE	Caliche, poor to moderate consolidation, some sand, tan/brown
M	156	0	N	CH02	0-2.5	1		
						2	SW-SM	Sand (c.), well graded, some silt, brown/red
M	<156	0.1	N	CH02A	2.5-4	3		
						4		TD @ 4' bgs
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

Name:	Date:
CH03	4/22/2021

Site Name: PLU PC 28 Battery
Incident Number: NCE2002742193
WSP Job Number: TE012919250

LITHOLOGIC / SOIL SAMPLING LOG

Logged By	Method
WM, TC	Core Drill

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth (TD):
32.182208, -103.880897	HACH Chloride Test Strips, PID	2"	4'

Comments:
40% Correction factor included in Chloride concentrations. "M" Moisture Content - Moist

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	156	0	N	CH03	0-2.5	1–2	SW-SM	Sand (c.), well graded, some silt, brown/red
M	<156	0.1	N	CH03A	2.5-4	3–4	CCHE	Caliche, poor consolidation, sandy, some silt, tan/brown
						5–25		TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

Name:	Date:
CH04	4/22/2021

Site Name: PLU PC 28 Battery
Incident Number: NCE2002742193
WSP Job Number: TE012919250

LITHOLOGIC / SOIL SAMPLING LOG

Logged By	Method
WM, TC	Core Drill

Lat/Long:	Field Screening:	Hole Diameter:	Total Depth (TD):
32.182079, -103.880393	HACH Chloride Test Strips, PID	2"	4'

Comments:
40% Correction factor included in Chloride concentrations. "M" Moisture Content - Moist

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	<156	0	N	CH04	0-2.5	1 2	SW-SM	Sand (c.), well graded, some silt, brown/red
M	<156	0	N	CH04A	2.5-4	3 4	CCHE	Caliche, poor consolidation, sandy, some silt, tan/brown
						5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

Name: CH05	Date: 4/22/2021
Site Name: PLU PC 28 Battery	
Incident Number: NRM1931858285	
WSP Job Number: TE0129192281	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By WM, TC	Method: Core Drill		
Lat/Long: 32.182139, -103.879967	Field Screening: HACH Chloride Test Strips, PID	Hole Diameter: 2"	Total Depth (TD): 4'

Comments:
40% Correction factor included in Chloride concentrations. "M" Moisture Content - Moist

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	<156	0	N	CH05	0-2.5	1 2	SW-SM	Sand (c.), well graded, some silt, brown/red
M	<156	0	N	CH05A	2.5-4	3 4	CCHE	Caliche, poor consolidation, sandy, some silt, tan/brown
						5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		TD @ 4' bgs

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, INC.	PLU Pierce Canyon 28 Eddy County, New Mexico	TE012919250 & TE012919281

Photo No.	Date
1	April 22, 2021

Southern view of CH02 location (NCE2002742193)

Photo No.	Date
2	December 10, 2019

FS05 Sample Area (NCE2002742193)

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-562-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC 28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
4/29/2021 8:59:17 PM

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

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Laboratory Job ID: 890-562-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-562-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
*1	LCS/LCSD RPD exceeds control limits.
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 PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Job ID: 890-562-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-562-1

Receipt
The samples were received on 4/23/2021 10:07 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 3.4°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH01 (890-562-1) and CH01 A (890-562-2).

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 PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Client Sample ID: CH01

Lab Sample ID: 890-562-1
Matrix: Solid
Date Collected: 04/22/21 09:44
Date Received: 04/23/21 10:07
Sample Depth: 0 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 15:34	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 15:34*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/26/21 08:44*	*04/26/21 15:34*	*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		04/26/21 13:23	04/27/21 02:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 02:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 02:29	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*04/26/21 13:23*	*04/27/21 02:29*	*1*
o-Terphenyl	*118*		*70 - 130*	*04/26/21 13:23*	*04/27/21 02:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.0**		5.02		mg/Kg			04/29/21 15:18	1

Client Sample ID: CH01 A

Lab Sample ID: 890-562-2
Matrix: Solid
Date Collected: 04/22/21 10:00
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 17:57	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*04/26/21 08:44*	*04/26/21 17:57*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/26/21 08:44*	*04/26/21 17:57*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Client Sample ID: CH01 A

Date Collected: 04/22/21 10:00
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Lab Sample ID: 890-562-2

Matrix: Solid

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 *1 *+	49.9		mg/Kg		04/27/21 10:20	04/28/21 20:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/27/21 10:20	04/28/21 20:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/27/21 10:20	04/28/21 20:07	1
Total TPH	<49.9	U	49.9		mg/Kg		04/27/21 10:20	04/28/21 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/27/21 10:20*	*04/28/21 20:07*	*1*
o-Terphenyl	*100*		*70 - 130*	*04/27/21 10:20*	*04/28/21 20:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.8**		5.01		mg/Kg			04/29/21 15:34	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-562-1	CH01	106	113
890-562-2	CH01 A	102	109
LCS 880-2314/1-A	Lab Control Sample	94	111
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107
MB 880-2314/5-A	Method Blank	106	85

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-562-1	CH01	118	118
890-562-2	CH01 A	107	100
LCS 880-2326/2-A	Lab Control Sample	105	104
LCS 880-2377/2-A	Lab Control Sample	130	113
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105
LCSD 880-2377/3-A	Lab Control Sample Dup	110	100
MB 880-2326/1-A	Method Blank	106	110
MB 880-2377/1-A	Method Blank	114	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2314/5-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*

Lab Sample ID: LCS 880-2314/1-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-2314/2-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-2326/1-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2326

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		04/26/21 13:23	04/26/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2326/2-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-2326/3-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1224		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: MB 880-2377/1-A
Matrix: Solid
Analysis Batch: 2425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2377

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		04/27/21 10:20	04/28/21 10:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/27/21 10:20	04/28/21 10:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/27/21 10:20	04/28/21 10:35	1
Total TPH	<50.0	U	50.0		mg/Kg		04/27/21 10:20	04/28/21 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*04/27/21 10:20*	*04/28/21 10:35*	*1*
o-Terphenyl	*108*		*70 - 130*	*04/27/21 10:20*	*04/28/21 10:35*	*1*

Lab Sample ID: LCS 880-2377/2-A
Matrix: Solid
Analysis Batch: 2425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1476	*+	mg/Kg		148	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1231		mg/Kg		123	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2377/2-A
Matrix: Solid
Analysis Batch: 2425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2377

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-2377/3-A
Matrix: Solid
Analysis Batch: 2425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1178	*1	mg/Kg		118	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130	19	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2479/1-A
Matrix: Solid
Analysis Batch: 2498

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			04/29/21 13:24	1

Lab Sample ID: LCS 880-2479/2-A
Matrix: Solid
Analysis Batch: 2498

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	249.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-2479/3-A
Matrix: Solid
Analysis Batch: 2498

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	247.0		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-562-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

GC VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Total/NA	Solid	5035	
890-562-2	CH01 A	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Total/NA	Solid	8021B	2314
890-562-2	CH01 A	Total/NA	Solid	8021B	2314
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	8021B	2314
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2314

GC Semi VOA

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Total/NA	Solid	8015B NM	2326
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	2326
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2326
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2326

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 2377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-2	CH01 A	Total/NA	Solid	8015NM Prep	
MB 880-2377/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2377/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-2	CH01 A	Total/NA	Solid	8015B NM	2377
MB 880-2377/1-A	Method Blank	Total/NA	Solid	8015B NM	2377
LCS 880-2377/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2377
LCSD 880-2377/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2377

HPLC/IC

Leach Batch: 2479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Soluble	Solid	DI Leach	
890-562-2	CH01 A	Soluble	Solid	DI Leach	
MB 880-2479/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2479/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-562-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

HPLC/IC (Continued)

Leach Batch: 2479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-2479/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-562-1	CH01	Soluble	Solid	300.0	2479
890-562-2	CH01 A	Soluble	Solid	300.0	2479
MB 880-2479/1-A	Method Blank	Soluble	Solid	300.0	2479
LCS 880-2479/2-A	Lab Control Sample	Soluble	Solid	300.0	2479
LCSD 880-2479/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2479

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Client Sample ID: CH01

Date Collected: 04/22/21 09:44
Date Received: 04/23/21 10:07

Lab Sample ID: 890-562-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 15:34	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 02:29	AJ	XM
Soluble	Leach	DI Leach			2479	04/29/21 10:46	SC	XM
Soluble	Analysis	300.0		1	2498	04/29/21 15:18	SC	XM

Client Sample ID: CH01 A

Date Collected: 04/22/21 10:00
Date Received: 04/23/21 10:07

Lab Sample ID: 890-562-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 17:57	KL	XM
Total/NA	Prep	8015NM Prep			2377	04/27/21 10:20	DM	XM
Total/NA	Analysis	8015B NM		1	2425	04/28/21 20:07	AJ	XM
Soluble	Leach	DI Leach			2479	04/29/21 10:46	SC	XM
Soluble	Analysis	300.0		1	2498	04/29/21 15:34	SC	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-562-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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 PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

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 PC 28 Battery

Job ID: 890-562-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-562-1	CH01	Solid	04/22/21 09:44	04/23/21 10:07	0 - 2.5
890-562-2	CH01 A	Solid	04/22/21 10:00	04/23/21 10:07	2.5 - 4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU PC 28 Battery	Turn Around	
Project Number:	TE012919281	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.6/3.4	Thermometer ID	ZNM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH01	s	4/22/2021	9:44	0-2.5'	1	x	x	x
CH01A	s	4/22/2021	10:00	2.5'-4'	1	x	x	x

890-562 Chain of Custody

Work Order Notes

AFE: EW.2020.03365.EXP.01
Cost center 1081071001
API 30-015-36830
Incident ID: NCE2002742193, NRM1931858285

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Discrete
Discrete

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4-23-21 1007	4		
3			6		
5					

Revised Date 051418 Rev. 2018 1

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-182 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-562-1
Address: 1211 W Florida Ave ,	Due Date Requested: 4/29/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: PLU PC 28 Battery	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CH01 (890-562-1)	4/22/21	09 44 Mountain		Solid			X	X	X	1	
CH01 A (890-562-2)	4/22/21	10 00 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Gaddy Ordonez	Date/Time: 4/23/21	Company	Received by:	Date/Time: 4-26-21 8:30am	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-562-1
SDG Number: TE012919281

Login Number: 562
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: 890-562-1
SDG Number: TE012919281

Login Number: 562
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/26/21 09:10 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-563-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC 28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
4/29/2021 9:01:42 PM

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

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Laboratory Job ID: 890-563-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-563-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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
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 PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Job ID: 890-563-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-563-1

Receipt
The samples were received on 4/23/2021 10:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH02 (890-563-1) and CH02 A (890-563-2).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CH02 (890-563-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
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 PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Client Sample ID: CH02

Lab Sample ID: 890-563-1
Matrix: Solid
Date Collected: 04/22/21 10:23
Date Received: 04/23/21 10:07
Sample Depth: 0 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/26/21 08:44	04/26/21 18:18	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/26/21 08:44	04/26/21 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:18*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:18*	*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		04/26/21 13:23	04/27/21 01:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:47	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:47*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.8**		4.98		mg/Kg			04/29/21 15:39	1

Client Sample ID: CH02 A

Lab Sample ID: 890-563-2
Matrix: Solid
Date Collected: 04/22/21 10:38
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:38	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:38*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:38*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Client Sample ID: CH02 A

Date Collected: 04/22/21 10:38
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Lab Sample ID: 890-563-2

Matrix: Solid

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		04/26/21 13:23	04/27/21 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 02:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 02:08	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/26/21 13:23*	*04/27/21 02:08*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/26/21 13:23*	*04/27/21 02:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.20**		4.99		mg/Kg			04/29/21 15:44	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-563-1	CH02	126	110										
890-563-2	CH02 A	96	115										
LCS 880-2314/1-A	Lab Control Sample	94	111										
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107										
MB 880-2314/5-A	Method Blank	106	85										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-563-1	CH02	102	103										
890-563-2	CH02 A	105	107										
LCS 880-2326/2-A	Lab Control Sample	105	104										
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105										
MB 880-2326/1-A	Method Blank	106	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2314/5-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*

Lab Sample ID: LCS 880-2314/1-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-2314/2-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-2326/1-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2326

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		04/26/21 13:23	04/26/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2326/2-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-2326/3-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1224		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2479/1-A
Matrix: Solid
Analysis Batch: 2498

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			04/29/21 13:24	1

Lab Sample ID: LCS 880-2479/2-A
Matrix: Solid
Analysis Batch: 2498

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	249.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-2479/3-A
Matrix: Solid
Analysis Batch: 2498

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	247.0		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

GC VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Total/NA	Solid	5035	
890-563-2	CH02 A	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Total/NA	Solid	8021B	2314
890-563-2	CH02 A	Total/NA	Solid	8021B	2314
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	8021B	2314
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2314

GC Semi VOA

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Total/NA	Solid	8015B NM	2326
890-563-2	CH02 A	Total/NA	Solid	8015B NM	2326
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	2326
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2326
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2326

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Total/NA	Solid	8015NM Prep	
890-563-2	CH02 A	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Soluble	Solid	DI Leach	
890-563-2	CH02 A	Soluble	Solid	DI Leach	
MB 880-2479/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2479/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2479/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-563-1	CH02	Soluble	Solid	300.0	2479
890-563-2	CH02 A	Soluble	Solid	300.0	2479
MB 880-2479/1-A	Method Blank	Soluble	Solid	300.0	2479
LCS 880-2479/2-A	Lab Control Sample	Soluble	Solid	300.0	2479
LCSD 880-2479/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2479

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Client Sample ID: CH02

Lab Sample ID: 890-563-1
Matrix: Solid
Date Collected: 04/22/21 10:23
Date Received: 04/23/21 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 18:18	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 01:47	AJ	XM
Soluble	Leach	DI Leach			2479	04/29/21 10:46	SC	XM
Soluble	Analysis	300.0		1	2498	04/29/21 15:39	SC	XM

Client Sample ID: CH02 A

Lab Sample ID: 890-563-2
Matrix: Solid
Date Collected: 04/22/21 10:38
Date Received: 04/23/21 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 18:38	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 02:08	AJ	XM
Soluble	Leach	DI Leach			2479	04/29/21 10:46	SC	XM
Soluble	Analysis	300.0		1	2498	04/29/21 15:44	SC	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-563-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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 PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

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 PC 28 Battery

Job ID: 890-563-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-563-1	CH02	Solid	04/22/21 10:23	04/23/21 10:07	0 - 2.5
890-563-2	CH02 A	Solid	04/22/21 10:38	04/23/21 10:07	2.5 - 4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU PC 28 Battery	Turn Around	
Project Number:	TE012919281	Routine	✓
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.6/3.4	Thermometer ID	CNM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
CH02	s	4/22/2021	10:23	0-2.5'	1	x	x	x	Discrete
CH02A	s	4/22/2021	10:38	2.5'-4'	1	x	x	x	Discrete

890-563 Chain of Custody

Work Order Notes

AFE: EW.2020.03365.EXP.01
Cost center 1081071001
API 30-015-36830
Incident ID: NCE2002742193, NRM1931858285

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	W. Mather	Cee Cee	4.23.21 1007			
3				4		
5				6		

Revised Date 051418 Rev 2018 1

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

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-182 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-563-1
Address: 1211 W Florida Ave	Due Date Requested: 4/29/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: PLU PC 28 Battery	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CH02 (890-563-1)	4/22/21	10 23 Mountain		Solid			X	X	X	1	
CH02 A (890-563-2)	4/22/21	10 38 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Gabby Ordonez	4/23/21			4-26-21 8:30 AM	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-563-1
SDG Number: TE012919281

Login Number: 563
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: 890-563-1
SDG Number: TE012919281

Login Number: 563
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/26/21 09:10 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-564-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC 28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
4/29/2021 2:57:43 PM

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

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 PC 28 Battery

Laboratory Job ID: 890-564-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-564-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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
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. Job ID: 890-564-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

Job ID: 890-564-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-564-1

Receipt
The samples were received on 4/23/2021 10:07 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 3.4°C

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

GC Semi VOA
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 PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Client Sample ID: CH03

Date Collected: 04/22/21 10:59
Date Received: 04/23/21 10:07

Lab Sample ID: 890-564-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:59	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:59*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/26/21 08:44*	*04/26/21 18:59*	*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		04/26/21 13:23	04/27/21 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:06	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:06*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		4.98		mg/Kg			04/26/21 15:14	1

Client Sample ID: CH03 A

Date Collected: 04/22/21 12:02
Date Received: 04/23/21 10:07

Lab Sample ID: 890-564-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00201**		0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:20	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/26/21 08:44*	*04/26/21 19:20*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/26/21 08:44*	*04/26/21 19:20*	*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		04/26/21 13:23	04/27/21 01:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Client Sample ID: CH03 A

Date Collected: 04/22/21 12:02
Date Received: 04/23/21 10:07

Lab Sample ID: 890-564-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:26	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:26*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/27/21 01:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**465**		5.00		mg/Kg			04/28/21 10:31	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-564-1	CH03	97	114										
890-564-2	CH03 A	100	105										
LCS 880-2314/1-A	Lab Control Sample	94	111										
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107										
MB 880-2314/5-A	Method Blank	106	85										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-564-1	CH03	100	99										
890-564-2	CH03 A	108	110										
LCS 880-2326/2-A	Lab Control Sample	105	104										
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105										
MB 880-2326/1-A	Method Blank	106	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2314/5-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*

Lab Sample ID: LCS 880-2314/1-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-2314/2-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-2326/1-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2326

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		04/26/21 13:23	04/26/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2326/2-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-2326/3-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1224		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2317/1-A
Matrix: Solid
Analysis Batch: 2343

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			04/26/21 13:47	1

Lab Sample ID: LCS 880-2317/2-A
Matrix: Solid
Analysis Batch: 2343

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	252.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-2317/3-A
Matrix: Solid
Analysis Batch: 2343

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	252.4		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-564-1 MS
Matrix: Solid
Analysis Batch: 2343

Client Sample ID: CH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	400		249	643.6		mg/Kg		98	90 - 110

Lab Sample ID: 890-564-1 MSD
Matrix: Solid
Analysis Batch: 2343

Client Sample ID: CH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	400		249	642.5		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-2339/1-A
Matrix: Solid
Analysis Batch: 2406

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			04/28/21 10:15	1

Lab Sample ID: LCS 880-2339/2-A
Matrix: Solid
Analysis Batch: 2406

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			250	258.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-2339/3-A
Matrix: Solid
Analysis Batch: 2406

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-564-2 MS
Matrix: Solid
Analysis Batch: 2406

Client Sample ID: CH03 A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	465		250	719.0		mg/Kg		102	90 - 110

Lab Sample ID: 890-564-2 MSD
Matrix: Solid
Analysis Batch: 2406

Client Sample ID: CH03 A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	465		250	738.8		mg/Kg		109	90 - 110	3	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

GC VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Total/NA	Solid	5035	
890-564-2	CH03 A	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Total/NA	Solid	8021B	2314
890-564-2	CH03 A	Total/NA	Solid	8021B	2314
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	8021B	2314
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2314

GC Semi VOA

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Total/NA	Solid	8015B NM	2326
890-564-2	CH03 A	Total/NA	Solid	8015B NM	2326
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	2326
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2326
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2326

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Total/NA	Solid	8015NM Prep	
890-564-2	CH03 A	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Soluble	Solid	DI Leach	
MB 880-2317/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2317/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-564-1 MS	CH03	Soluble	Solid	DI Leach	
890-564-1 MSD	CH03	Soluble	Solid	DI Leach	

Leach Batch: 2339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-2	CH03 A	Soluble	Solid	DI Leach	
MB 880-2339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-564-2 MS	CH03 A	Soluble	Solid	DI Leach	
890-564-2 MSD	CH03 A	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

HPLC/IC

Analysis Batch: 2343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-1	CH03	Soluble	Solid	300.0	2317
MB 880-2317/1-A	Method Blank	Soluble	Solid	300.0	2317
LCS 880-2317/2-A	Lab Control Sample	Soluble	Solid	300.0	2317
LCSD 880-2317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2317
890-564-1 MS	CH03	Soluble	Solid	300.0	2317
890-564-1 MSD	CH03	Soluble	Solid	300.0	2317

Analysis Batch: 2406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-564-2	CH03 A	Soluble	Solid	300.0	2339
MB 880-2339/1-A	Method Blank	Soluble	Solid	300.0	2339
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	300.0	2339
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2339
890-564-2 MS	CH03 A	Soluble	Solid	300.0	2339
890-564-2 MSD	CH03 A	Soluble	Solid	300.0	2339

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Client Sample ID: CH03

Date Collected: 04/22/21 10:59
Date Received: 04/23/21 10:07

Lab Sample ID: 890-564-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 18:59	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 01:06	AJ	XM
Soluble	Leach	DI Leach			2317	04/26/21 09:41	SC	XM
Soluble	Analysis	300.0		1	2343	04/26/21 15:14	SC	XM

Client Sample ID: CH03 A

Date Collected: 04/22/21 12:02
Date Received: 04/23/21 10:07

Lab Sample ID: 890-564-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 19:20	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 01:26	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 10:31	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-564-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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. Job ID: 890-564-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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 PC 28 Battery

Job ID: 890-564-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-564-1	CH03	Solid	04/22/21 10:59	04/23/21 10:07	
890-564-2	CH03 A	Solid	04/22/21 12:02	04/23/21 10:07	

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, dan.moir@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU PC 28 Battery	Turn Around	
Project Number:	TE012919281	Routine	☑
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	3.6/3.4	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH03	s	4/22/2021	10:59	0-2.5'	1	x	x	x
CH03A	s	4/22/2021	12:02	2.5'-4'	1	x	x	x

890-564 Chain of Custody

Work Order Notes

AFE: EW.2020.03365.EXP.01
Cost center 1081071001
API 30-015-36830
Incident ID: NCE2002742193, NRM1931858285

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Discrete
Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4.23.21 1007			
3				4		
5				6		

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-182 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-564-1
Address: 1211 W Florida Ave	Due Date Requested: 4/29/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: PLU PC 28 Battery	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CH03 (890-564-1)	4/22/21	10 59 Mountain		Solid			X	X	X	1	
CH03 A (890-564-2)	4/22/21	12 02 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Gabriel Ordonez	Date/Time: 4/23/21	Company	Received by:	Date/Time: 4-26-21 8:30am	Company
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.
Δ Yes Δ No		

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-564-1
SDG Number: TE012919281

Login Number: 564
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: 890-564-1
SDG Number: TE012919281

Login Number: 564
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/26/21 09:11 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-565-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC 28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
4/29/2021 2:59:03 PM

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

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 PC 28 Battery

Laboratory Job ID: 890-565-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-565-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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
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. Job ID: 890-565-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

Job ID: 890-565-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-565-1

Receipt
The samples were received on 4/23/2021 10:07 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 3.4°C

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

GC Semi VOA
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 PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Client Sample ID: CH04

Lab Sample ID: 890-565-1
Matrix: Solid
Date Collected: 04/22/21 12:38
Date Received: 04/23/21 10:07
Sample Depth: 0 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:40	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		04/26/21 08:44	04/26/21 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/26/21 08:44*	*04/26/21 19:40*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/26/21 08:44*	*04/26/21 19:40*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:24	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:24*	*1*
o-Terphenyl	*117*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		5.02		mg/Kg			04/28/21 10:55	1

Client Sample ID: CH04 A

Lab Sample ID: 890-565-2
Matrix: Solid
Date Collected: 04/22/21 12:43
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 20:01	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		04/26/21 08:44	04/26/21 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:01*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:01*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Client Sample ID: CH04 A

Date Collected: 04/22/21 12:43
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Lab Sample ID: 890-565-2

Matrix: Solid

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		04/26/21 13:23	04/27/21 00:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:45	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/27/21 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:45*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**246**		5.00		mg/Kg			04/28/21 11:01	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-565-1	CH04	104	114										
890-565-2	CH04 A	101	123										
LCS 880-2314/1-A	Lab Control Sample	94	111										
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107										
MB 880-2314/5-A	Method Blank	106	85										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-565-1	CH04	116	117										
890-565-2	CH04 A	104	106										
LCS 880-2326/2-A	Lab Control Sample	105	104										
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105										
MB 880-2326/1-A	Method Blank	106	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2314/5-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*

Lab Sample ID: LCS 880-2314/1-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-2314/2-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-2326/1-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2326

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		04/26/21 13:23	04/26/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2326/2-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-2326/3-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1224		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2339/1-A
Matrix: Solid
Analysis Batch: 2406

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			04/28/21 10:15	1

Lab Sample ID: LCS 880-2339/2-A
Matrix: Solid
Analysis Batch: 2406

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-2339/3-A
Matrix: Solid
Analysis Batch: 2406

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-565-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

GC VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Total/NA	Solid	5035	
890-565-2	CH04 A	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Total/NA	Solid	8021B	2314
890-565-2	CH04 A	Total/NA	Solid	8021B	2314
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	8021B	2314
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2314

GC Semi VOA

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Total/NA	Solid	8015B NM	2326
890-565-2	CH04 A	Total/NA	Solid	8015B NM	2326
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	2326
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2326
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2326

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Total/NA	Solid	8015NM Prep	
890-565-2	CH04 A	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Soluble	Solid	DI Leach	
890-565-2	CH04 A	Soluble	Solid	DI Leach	
MB 880-2339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-565-1	CH04	Soluble	Solid	300.0	2339
890-565-2	CH04 A	Soluble	Solid	300.0	2339
MB 880-2339/1-A	Method Blank	Soluble	Solid	300.0	2339
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	300.0	2339
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2339

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Client Sample ID: CH04

Date Collected: 04/22/21 12:38
Date Received: 04/23/21 10:07

Lab Sample ID: 890-565-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 19:40	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 00:24	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 10:55	CH	XM

Client Sample ID: CH04 A

Date Collected: 04/22/21 12:43
Date Received: 04/23/21 10:07

Lab Sample ID: 890-565-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 20:01	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 00:45	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 11:01	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-565-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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. Job ID: 890-565-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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 PC 28 Battery

Job ID: 890-565-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-565-1	CH04	Solid	04/22/21 12:38	04/23/21 10:07	0 - 2.5
890-565-2	CH04 A	Solid	04/22/21 12:43	04/23/21 10:07	2.5 - 4

Chain of Custody

XENCO LABORATORIES

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

Work Order No: _____

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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849 Email:	will.mather@wsp.com, dan.moir@wsp.com	

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU PC 28 Battery	Turn Around	
Project Number:	TE012919281	Routine	✓
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	3.6/3.4	Thermometer ID		
Received Intact:	Yes No	IR-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH04	s	4/22/2021	12:38	0-2.5'	1	x	x	x
CH04A	s	4/22/2021	12:43	2.5'-4'	1	x	x	x

ANALYSIS REQUEST

890-565 Chain of Custody

Work Order Notes

AFE: EW.2020.03365.EXP.01
Cost center 1081071001
API 30-015-36830
Incident ID: NCE2002742193, NRM1931858285

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

CH04: Discrete
CH04A: Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471**: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	4.23.21 1607		2		
3			4		
5			6		

Revised Date 051418 Rev. 2018 1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-182 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-565-1
Address: 1211 W Florida Ave,	Due Date Requested: 4/29/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: PLU PC 28 Battery	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8016MOD_NM/8016NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CH04 (890-565-1)	4/22/21	12 38 Mountain		Solid			X	X	X	1	
CH04 A (890-565-2)	4/22/21	12 43 Mountain		Solid			X	X	X	1	

Note. Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Gabby Ordonez	Date/Time: 4/23/21	Company	Received by:	Date/Time: 4-26-21 8:30 a.m	Company
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.
Δ Yes Δ No		

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-565-1
SDG Number: TE012919281

Login Number: 565
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: 890-565-1
SDG Number: TE012919281

Login Number: 565
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/26/21 09:12 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-566-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC 28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
4/29/2021 3:01:01 PM

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

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Laboratory Job ID: 890-566-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-566-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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
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. Job ID: 890-566-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

Job ID: 890-566-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-566-1

Receipt
The samples were received on 4/23/2021 10:07 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 3.4°C

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

GC Semi VOA
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 PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Client Sample ID: CH05

Lab Sample ID: 890-566-1
Matrix: Solid
Date Collected: 04/22/21 13:17
Date Received: 04/23/21 10:07
Sample Depth: 0 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 20:21	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/26/21 08:44	04/26/21 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:21*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:21*	*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		04/26/21 13:23	04/26/21 23:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 23:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 23:42	1
Total TPH	<49.9	U	49.9		mg/Kg		04/26/21 13:23	04/26/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/26/21 13:23*	*04/26/21 23:42*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/26/21 13:23*	*04/26/21 23:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		4.95		mg/Kg			04/28/21 11:31	1

Client Sample ID: CH05 A

Lab Sample ID: 890-566-2
Matrix: Solid
Date Collected: 04/22/21 13:43
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/26/21 08:44	04/26/21 20:42	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/26/21 08:44	04/26/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:42*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/26/21 08:44*	*04/26/21 20:42*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Client Sample ID: CH05 A

Date Collected: 04/22/21 13:43
Date Received: 04/23/21 10:07
Sample Depth: 2.5 - 4

Lab Sample ID: 890-566-2

Matrix: Solid

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		04/26/21 13:23	04/27/21 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 00:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/27/21 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:03*	*1*
o-Terphenyl	*105*		*70 - 130*	*04/26/21 13:23*	*04/27/21 00:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.4**		4.97		mg/Kg			04/28/21 11:36	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-566-1	CH05	97	109
890-566-2	CH05 A	96	105
LCS 880-2314/1-A	Lab Control Sample	94	111
LCSD 880-2314/2-A	Lab Control Sample Dup	95	107
MB 880-2314/5-A	Method Blank	106	85

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-566-1	CH05	105	107
890-566-2	CH05 A	101	105
LCS 880-2326/2-A	Lab Control Sample	105	104
LCSD 880-2326/3-A	Lab Control Sample Dup	111	105
MB 880-2326/1-A	Method Blank	106	110

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2314/5-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/26/21 08:44	04/26/21 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/26/21 08:44*	*04/26/21 12:07*	*1*

Lab Sample ID: LCS 880-2314/1-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-2314/2-A
Matrix: Solid
Analysis Batch: 2315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2314

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

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

Lab Sample ID: MB 880-2326/1-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2326

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		04/26/21 13:23	04/26/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		04/26/21 13:23	04/26/21 18:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*04/26/21 13:23*	*04/26/21 18:03*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

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

Lab Sample ID: LCS 880-2326/2-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-2326/3-A
Matrix: Solid
Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1224		mg/Kg		122	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2339/1-A
Matrix: Solid
Analysis Batch: 2406

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			04/28/21 10:15	1

Lab Sample ID: LCS 880-2339/2-A
Matrix: Solid
Analysis Batch: 2406

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	258.7		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-2339/3-A
Matrix: Solid
Analysis Batch: 2406

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	257.2		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-566-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

GC VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Total/NA	Solid	5035	
890-566-2	CH05 A	Total/NA	Solid	5035	
MB 880-2314/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Total/NA	Solid	8021B	2314
890-566-2	CH05 A	Total/NA	Solid	8021B	2314
MB 880-2314/5-A	Method Blank	Total/NA	Solid	8021B	2314
LCS 880-2314/1-A	Lab Control Sample	Total/NA	Solid	8021B	2314
LCSD 880-2314/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2314

GC Semi VOA

Analysis Batch: 2306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Total/NA	Solid	8015B NM	2326
890-566-2	CH05 A	Total/NA	Solid	8015B NM	2326
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015B NM	2326
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2326
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2326

Prep Batch: 2326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Total/NA	Solid	8015NM Prep	
890-566-2	CH05 A	Total/NA	Solid	8015NM Prep	
MB 880-2326/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2326/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2326/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Soluble	Solid	DI Leach	
890-566-2	CH05 A	Soluble	Solid	DI Leach	
MB 880-2339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-566-1	CH05	Soluble	Solid	300.0	2339
890-566-2	CH05 A	Soluble	Solid	300.0	2339
MB 880-2339/1-A	Method Blank	Soluble	Solid	300.0	2339
LCS 880-2339/2-A	Lab Control Sample	Soluble	Solid	300.0	2339
LCSD 880-2339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2339

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Client Sample ID: CH05

Date Collected: 04/22/21 13:17
Date Received: 04/23/21 10:07

Lab Sample ID: 890-566-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 20:21	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/26/21 23:42	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 11:31	CH	XM

Client Sample ID: CH05 A

Date Collected: 04/22/21 13:43
Date Received: 04/23/21 10:07

Lab Sample ID: 890-566-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2314	04/26/21 08:44	KL	XM
Total/NA	Analysis	8021B		1	2315	04/26/21 20:42	KL	XM
Total/NA	Prep	8015NM Prep			2326	04/26/21 13:23	DM	XM
Total/NA	Analysis	8015B NM		1	2306	04/27/21 00:03	AJ	XM
Soluble	Leach	DI Leach			2339	04/26/21 15:48	SC	XM
Soluble	Analysis	300.0		1	2406	04/28/21 11:36	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-566-1
Project/Site: PLU PC 28 Battery SDG: TE012919281

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 PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

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 PC 28 Battery

Job ID: 890-566-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-566-1	CH05	Solid	04/22/21 13:17	04/23/21 10:07	0 - 2.5
890-566-2	CH05 A	Solid	04/22/21 13:43	04/23/21 10:07	2.5 - 4

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849 Email:	will.mather@wsp.com, dan.moir@wsp.com	

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU PC 28 Battery	Turn Around	
Project Number:	TE012919281	Routine ☑	
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	3.6 / 3.4	Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
CH05	s	4/22/2021	13:17	0-2.5'	1	x	x	x	Discrete
CH05A	s	4/22/2021	13:43	2.5'-4'	1	x	x	x	Discrete

890-566 Chain of Custody

Work Order Notes

AFE: EW.2020.03365.EXP.01
Cost center 1081071001
API 30-015-36830
Incident ID: NCE2002742193, NRM1931858285

TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471**: Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4.23.21 1007			
3			4		
5			6		

Revised Date 051418 Rev. 2018 1

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-182 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-566-1
Address: 1211 W Florida Ave	Due Date Requested: 4/29/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: PLU PC 28 Battery	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O - AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CH05 (890-566-1)	4/22/21	13 17 Mountain		Solid			X	X	X	1	
CH05 A (890-566-2)	4/22/21	13 43 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Gabby Ordonez	4/23/21			4-26-21 8:300 pm	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-566-1
SDG Number: TE012919281

Login Number: 566
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: 890-566-1
SDG Number: TE012919281

Login Number: 566
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 04/26/21 09:14 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-628-1
Laboratory Sample Delivery Group: TE012919281
Client Project/Site: PLU PC28 Battery

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

Attn: Dan Moir

JKramer

Authorized for release by:
5/7/2021 3:23:32 PM

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

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 PC28 Battery

Laboratory Job ID: 890-628-1
SDG: TE012919281

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-628-1
Project/Site: PLU PC28 Battery SDG: TE012919281

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
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 PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Job ID: 890-628-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-628-1

Receipt
The sample was received on 5/5/2021 10:08 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS05 (890-628-1).

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 PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Client Sample ID: FS05

Date Collected: 05/04/21 09:20
Date Received: 05/05/21 10:08
Sample Depth: - 1.5

Lab Sample ID: 890-628-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/06/21 23:20	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/06/21 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/06/21 12:50*	*05/06/21 23:20*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/06/21 12:50*	*05/06/21 23:20*	*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		05/06/21 11:32	05/07/21 05:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 05:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 05:35	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/07/21 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/06/21 11:32*	*05/07/21 05:35*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/06/21 11:32*	*05/07/21 05:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**		4.99		mg/Kg			05/06/21 15:12	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-628-1	FS05	94	108
890-628-1 MS	FS05	105	106
890-628-1 MSD	FS05	105	103
LCS 880-2779/1-A	Lab Control Sample	98	111
LCSD 880-2779/2-A	Lab Control Sample Dup	94	106
MB 880-2707/5-A	Method Blank	106	98
MB 880-2779/5-A	Method Blank	110	102

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-628-1	FS05	91	97
LCS 880-2771/2-A	Lab Control Sample	105	105
LCSD 880-2771/3-A	Lab Control Sample Dup	105	104
MB 880-2771/1-A	Method Blank	96	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2707/5-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2707

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/05/21 11:00*	*05/06/21 11:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/05/21 11:00*	*05/06/21 11:55*	*1*

Lab Sample ID: MB 880-2779/5-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2779

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/06/21 12:50*	*05/06/21 22:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/06/21 12:50*	*05/06/21 22:58*	*1*

Lab Sample ID: LCS 880-2779/1-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2779

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08429		mg/Kg		84	70 - 130		
Toluene			0.100	0.09405		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.08942		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1813		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09021		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

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

Lab Sample ID: LCSD 880-2779/2-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2779

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08400		mg/Kg		84	70 - 130	0	35
Toluene			0.100	0.09012		mg/Kg		90	70 - 130	4	35
Ethylbenzene			0.100	0.08602		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1758		mg/Kg		88	70 - 130	3	35
o-Xylene			0.100	0.08685		mg/Kg		87	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-628-1 MS
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: FS05
Prep Type: Total/NA
Prep Batch: 2779

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.07521		mg/Kg		74	70 - 130
Toluene	<0.00199	U	0.100	0.08582		mg/Kg		84	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.08206		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1646		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.100	0.08449		mg/Kg		84	70 - 130

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

Lab Sample ID: 890-628-1 MSD
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: FS05
Prep Type: Total/NA
Prep Batch: 2779

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.07741		mg/Kg		76	70 - 130	3	35
Toluene	<0.00199	U	0.0996	0.08768		mg/Kg		87	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0996	0.08250		mg/Kg		83	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1706		mg/Kg		86	70 - 130	4	35
o-Xylene	<0.00199	U	0.0996	0.08493		mg/Kg		85	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

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

Lab Sample ID: MB 880-2771/1-A
Matrix: Solid
Analysis Batch: 2795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2771

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		05/06/21 11:32	05/06/21 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 11:32	05/06/21 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/06/21 11:32*	*05/06/21 21:36*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/06/21 11:32*	*05/06/21 21:36*	*1*

Lab Sample ID: LCS 880-2771/2-A
Matrix: Solid
Analysis Batch: 2795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2771

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	830.9		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1091		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-2771/3-A
Matrix: Solid
Analysis Batch: 2795

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2771

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	866.9		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1079		mg/Kg		108	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2778/1-A
Matrix: Solid
Analysis Batch: 2785

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			05/06/21 14:31	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2778/2-A
Matrix: Solid
Analysis Batch: 2785

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	245.1		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-2778/3-A
Matrix: Solid
Analysis Batch: 2785

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	245.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-628-1
Project/Site: PLU PC28 Battery SDG: TE012919281

GC VOA

Prep Batch: 2707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2707/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Total/NA	Solid	8021B	2779
MB 880-2707/5-A	Method Blank	Total/NA	Solid	8021B	2707
MB 880-2779/5-A	Method Blank	Total/NA	Solid	8021B	2779
LCS 880-2779/1-A	Lab Control Sample	Total/NA	Solid	8021B	2779
LCSD 880-2779/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2779
890-628-1 MS	FS05	Total/NA	Solid	8021B	2779
890-628-1 MSD	FS05	Total/NA	Solid	8021B	2779

Prep Batch: 2779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Total/NA	Solid	5035	
MB 880-2779/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2779/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2779/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-628-1 MS	FS05	Total/NA	Solid	5035	
890-628-1 MSD	FS05	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 2771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Total/NA	Solid	8015NM Prep	
MB 880-2771/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2771/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Total/NA	Solid	8015B NM	2771
MB 880-2771/1-A	Method Blank	Total/NA	Solid	8015B NM	2771
LCS 880-2771/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2771
LCSD 880-2771/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2771

HPLC/IC

Leach Batch: 2778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Soluble	Solid	DI Leach	
MB 880-2778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-628-1	FS05	Soluble	Solid	300.0	2778
MB 880-2778/1-A	Method Blank	Soluble	Solid	300.0	2778
LCS 880-2778/2-A	Lab Control Sample	Soluble	Solid	300.0	2778
LCSD 880-2778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2778

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Client Sample ID: FS05
Date Collected: 05/04/21 09:20
Date Received: 05/05/21 10:08

Lab Sample ID: 890-628-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/06/21 23:20	KL	XM
Total/NA	Prep	8015NM Prep			2771	05/06/21 11:32	DM	XM
Total/NA	Analysis	8015B NM		1	2795	05/07/21 05:35	AJ	XM
Soluble	Leach	DI Leach			2778	05/06/21 11:46	CH	XM
Soluble	Analysis	300.0		1	2785	05/06/21 15:12	SC	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

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 PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

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 PC28 Battery

Job ID: 890-628-1
SDG: TE012919281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-628-1	FS05	Solid	05/04/21 09:20	05/05/21 10:08	- 1.5

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Chain of Custody

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

Work Order No: ____________

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	KYLE LITTRELL
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:	(281) 702-2329	Email:	anna.byers@wsp.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 PC 28 Battery	Turn Around	☐ Routine ☒ Rush
Project Number:	TE012919281	Due Date:	3 DAY
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Anna Byers		
PO #:	NCE2002742193		

SAMPLE RECEIPT Temp Blank: (Yes) No Wet Ice: (Yes) No

Samples Received Intact:	(Yes) No	Thermometer ID:	TNM.007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	3.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.0
Total Containers:		Corrected Temperature:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH (EPA 8015 mod)	BTEX (EPA 8021 B)	Chloride (300.0)	Sample Comments
FS05	S	5/4/21	0920	1.5'	Comp	1	x	x	x	AFE: EW.2020.03365 EXP.01 Cost Centre: 1081071001

890-628 Chain of Custody

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2SO_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 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 $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	[signature]	5/5/2021 0813	2	[signature]	[signature]	5.5.21 1008
3				4			
5				6			

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-201 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-628-1
Address: 1211 W Florida Ave	Due Date Requested: 5/10/2021			
City: Midland	TAT Requested (days):			
State Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: PLU PC28 Battery	Project #: 89000004			
Site:	SSOW#:			

Preservation Codes
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA
M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
FS05 (890-628-1)	5/4/21	09 20 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ______ Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by		Date	Time		Method of Shipment:
Relinquished by: [signature] 5 5 21	Date/Time:	Company	Received by: [signature]	Date/Time: 5-6-21 11:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks		

Ver 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-628-1
SDG Number: TE012919281

Login Number: 628
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: 890-628-1
SDG Number: TE012919281

Login Number: 628
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 05/06/21 11:19 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	

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 30973

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 30973
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	7/12/2021