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

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Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NAPP2110460622
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.82868

32.20931 Latitude

Site Name PLU 13 DTD 108H	Site Type Production Well
Date Release Discovered 03/31/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
А	24	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)	Volume Recovered (bbls)		
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)		
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
X Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		
Frac Fluid	24 BBLS	19 BBLS		
Cause of Release A mechanical failure during fracing caused fluid to spill both into containment and onto ground. A vac truck recovered standing fluids. A third-party contractor has been retained for remediation activities.				

Page	2
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NA

Oil Conservation Division

Incident ID	NAPP2110460622
District RP	
Facility ID	
Application ID	

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

Initial Response

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

 \mathbf{x} The source of the release has been stopped.

x The impacted area has been secured to protect human health and the environment.

🗴 Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name: Adrian Baker Bak	Title: $\frac{\text{SSHE Coordinator}}{\text{Date:}}$
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>5/7/2021</u>

NAPP2110460622

Location:	PLU 13 DTD 108H		
Spill Date:	3/31/2021		
	Area 1		
Approximate A	rea =	106.68	cu.ft.
	VOLUME OF LEAK		
Total Frac Fluid	=	19.00	bbls
	Area 2		
Approximate A	rea =	5612.00	sq. ft.
Average Saturation (or depth) of spill = 2.00		inches	
Average Porosi	Average Porosity Factor = 0.03		
	VOLUME OF LEAK		
Total Frac Fluid = 5.00		5.00	bbls
TOTAL VOLUME OF LEAK			
Total Frac Fluic	=	24.00	bbls
TOTAL VOLUME RECOVERED			
Total Frac Fluic	=	19.00	bbls

Received by OCD: 6/29/2021 10:28:33 AM Form C-141 State of New Mexico

Oil Conservation Division

	1450 + 01
Incident ID	NAPP2110460622
District RP	
Facility ID	
Application ID	

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Site Assessment/Characterization

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

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

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 6/29/2021 1	0:28:33 AM State of New Mexico				Page 5 of 98
Form C-141				Incident ID	NAPP2110460622
Page 4	Oil Conservation Divisio	on		District RP	
				Facility ID	
				Application ID	
regulations all operators are required public health or the environment. failed to adequately investigate and addition, OCD acceptance of a Cand/or regulations. Printed Name:	ion given above is true and complete to ired to report and/or file certain release The acceptance of a C-141 report by the nd remediate contamination that pose a -141 report does not relieve the operato <u>Adrian Baker</u> <u>Adrian Baker</u> <u>Adrian Baker</u> <u>Adrian Baker</u> <u>Adrian Baker</u>	notifications and he OCD does not threat to groundy or of responsibility Title: Date:	perform cc relieve the vater, surfa y for compl SSHE	prective actions for rele operator of liability sho ce water, human health	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only					
Received by:		Da	te:		

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following it	items must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:Adrian Baker	Title:SSHE Coordinator
Printed Name:Adrian Baker Signature:Qebrian Bakes	Date: 06/29/2021
email:adrian.baker@exxonmobil.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	

Closure

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

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Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the C	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name:Adrian Baker Signature:Qebrian Baker	
email:adrian.baker@exxonmobil.com	Telephone:432-221-7331
OCD Only	
Received by: <u>Robert Hamlet</u>	Date: <u>8/27/2</u> 021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>8/27/2021</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

WSP USA

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

June 29, 2021

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

RE: Closure Request PLU 13 DTD 108H Incident Number NAPP2110460622 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Poker Lake Unit (PLU) 13 Dog Town Draw (DTD) 108H (Site) in Unit A, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of frac fluid at the Site. Based on the excavation activities and results of the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2110460622.

RELEASE BACKGROUND

On March 31, 2021, a mechanical failure during frac operations caused the release of 24 barrels (bbls) of frac fluid into containment and onto the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, approximately 19 bbls of fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) by submitting a Release Notification and Corrective Action Form (Form C-141) on April 14, 2021 and was assigned Incident Number NAPP2110460622.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) C-04483, located approximately 0.20 miles west of the Site. The groundwater well has a reported depth to groundwater greater than 100 feet bgs and a total depth of 109 feet bgs; depth to water was last measured in November 2020. Ground surface elevation at water well C-04483 is 3,463

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District II Page 2

feet above mean sea level (amsl), which is approximately 15 feet lower in elevation than the Site. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 565 feet west-northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On May 10, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected four preliminary assessment soil samples (SSO1 through SSO4) within the release extent, at a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent, preliminary and soil sample locations were mapped utilizing a handheld Global Positing System (GPS) and are presented on Figure 2.

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



Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 and SS04. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities were scheduled to assess the presence or absence of impacts to soil in the subsurface.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On May 24, 2021, WSP personnel were at the Site to oversee delineation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. Boreholes BH01 through BH04 were advanced via hand auger to a depth of 1 foot bgs at the locations of SS01 through SS04, respectively. Delineation soil samples were collected from each borehole at a depth of 1 foot bgs. Deeper samples could not be obtained due to auger refusal. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[©] chloride QuanTab[©] test strips, respectively. Field screening results and observations for each borehole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The delineation soil sample locations are presented on Figure 2. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 3.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in delineation soil samples BH01, BH03 and BH04. Laboratory analytical results for BH02 indicated that benzene, BTEX and chloride concentrations were compliant with the Closure Criteria but TPH-GRO/TPH-DRO and TPH exceeded Closure Criteria. Based on field screening activities and laboratory analytical results for BH02, excavation activities were warranted to remove the impacted soil.

On June 9, 2021, WSP personnel returned to the Site to complete vertical delineation and remove impacted soil. Vertical delineation and excavation activities were performed using track-mounted backhoe and transport vehicles. WSP personnel advanced a pothole (PH01), shown in Figure 2, near the location of BH02 and screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, at depths of 2 feet and 4 feet bgs. Based on field screening results, soil was excavated to a depth of approximately 1.5 feet bgs in an area of approximately 256 feet surrounding the BH02/PH01 location. Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 and FS02 were collected from the floor of the excavation at an approximate depth of 1.5 feet bgs. Due to the shallow depth of the excavation, the floor samples were also representative of the excavation sidewalls. The excavation soil

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District II Page 4

samples were collected, handled, and analyzed as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 256 square feet. A total of approximately 15 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01, BH03, BH04 and PH01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil sample BH02 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria.

Laboratory analytical results for excavation floor samples FS01 and FS02 collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 31, 2021 release of frac fluid. Based on the laboratory analytical results for the delineation soil samples, impacted soil was excavated. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Results from excavation confirmation samples concluded that all impacted soil was removed. Based on the excavation soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, XTO respectfully requests NFA for Incident Number NAPP2110460622.

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District II Page 5

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

Sincerely,

WSP USA Inc.

In the

Jeremy Hill Environmental Scientist

Ashley L. Ager

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

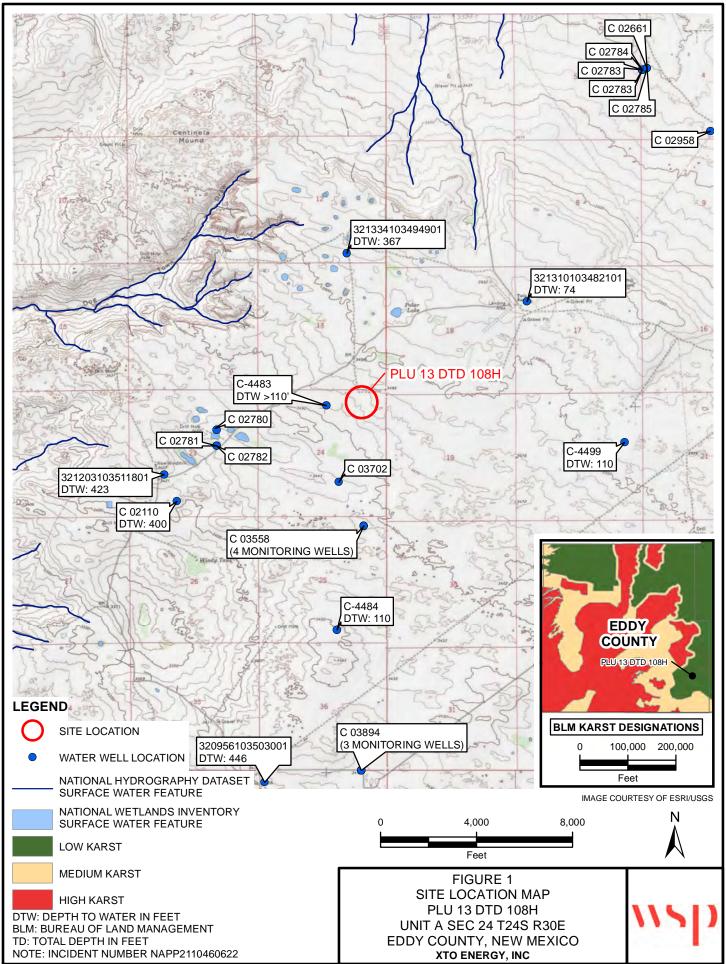
cc: Kyle Littrell, XTO Bureau of Land Management

Attachments:

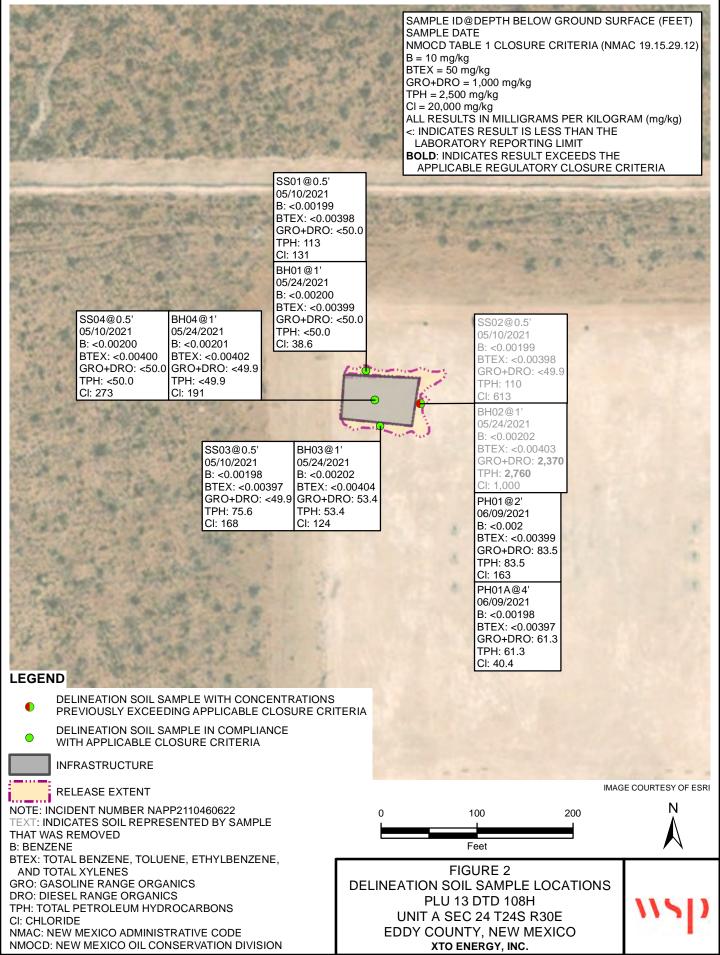
- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/ Soil Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical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

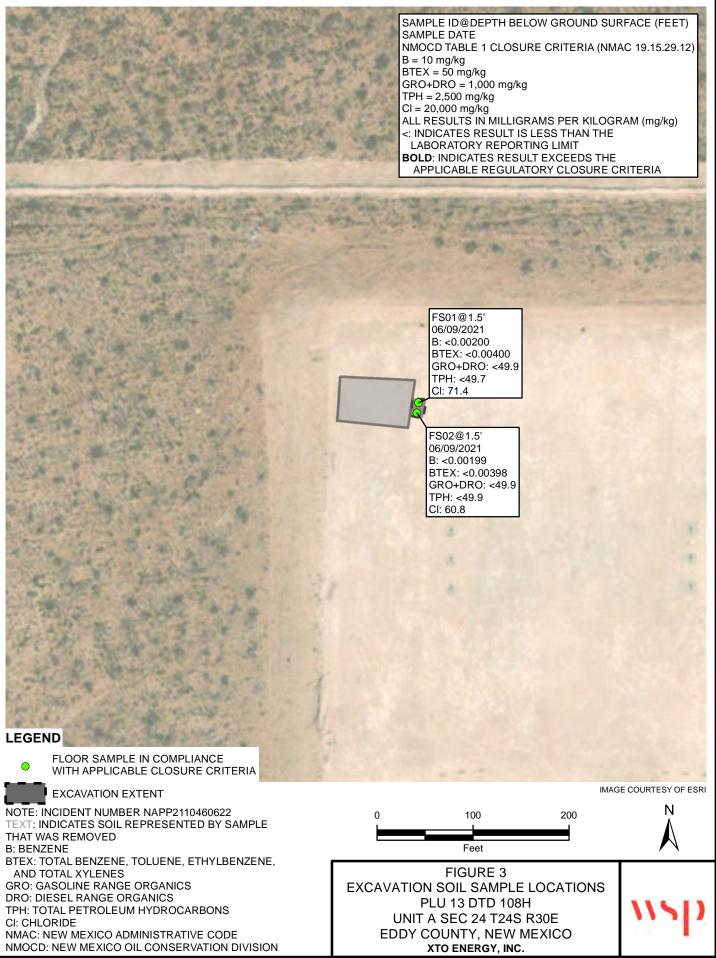
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Table 1

Soil Analytical Results
PLU 13 DTD 108H
Incident Number NAPP2110460622
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 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	05/10/2021	0.5	< 0.00199	< 0.00398	<50.0	<50.0	113	<50.0	113	131
SS02	05/10/2021	0.5	< 0.00199	< 0.00398	<49.9	<49.9	110	<49.9	110	613
SS03	05/10/2021	0.5	<0.00198	< 0.00397	<49.9	<49.9	75.6	<49.9	75.6	168
SS04	05/10/2021	0.5	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	273
Delineation Samples	5									
BH01	05/24/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	38.6
BH02	05/24/2021	1	< 0.00202	< 0.00403	2,370	<49.8	389	2,370	2,760	1,000
BH03	05/24/2021	1	< 0.00202	< 0.00404	53.4	<49.9	<49.9	53.4	53.4	124
BH04	05/24/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	191
PH01	06/09/2021	2	< 0.002	< 0.00399	83.5	<50.0	<50.0	83.5	83.5	163
PH01A	06/09/2021	4	< 0.00198	< 0.00397	61.3	<49.8	<49.8	61.3	61.3	40.4
Floor Samples										
FS01	06/09/2021	1.5	< 0.00200	< 0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	71.4
FS02	06/09/2021	1.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	60.8

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

New Mexico Office of the State Engineer Point of Diversion Summary

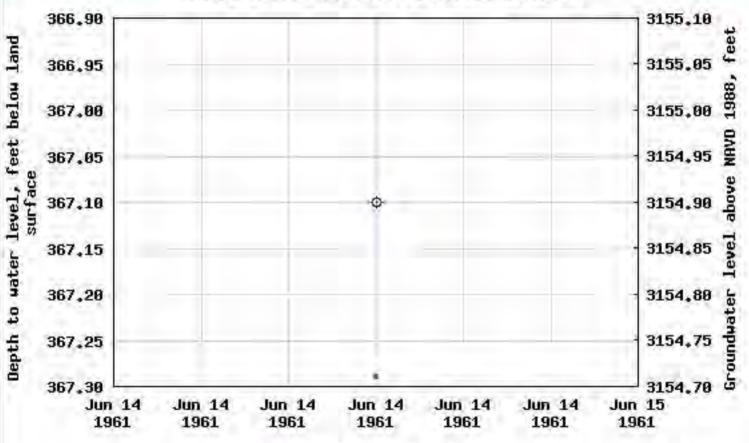
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Driller Name	: :	JACKIE D ATKI	NS						
Drill Start Da	ate:	11/24/2020	Drill Finish Date	:	11/2	24/2020	Plug	Date:	11/30/2020
Log File Dat	e:	12/17/2020	PCW Rcv Date:				Sour	ce:	
Pump Type:			Pipe Discharge	Size:			Estin	nated Yield	I: 0 GPM
Casing Size	:		Depth Well:				Dept	h Water:	
				Size:					I : 0 GPM

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

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	846,-103.8	329786			Chloride,				Hole Diameter: 3.25"	Total Depth: 1'	
Comm 40% co		actor inclu	ided in	chloride con	centrations	-		_			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lit	hology/Remarks	
D	<179	0	Ν	BH01	1'	0	SM	0'-1': Sa gr	nd, medium-coarse avel, 0.1-0.2 cm, w	e grain, well graded, some caliche ell consolidated, tan	
									TD @ 1' bgs		
					-	12					

		_	_					BH or PH Name:	Date:	ag
						SP USA		BH02	5/24/2021	
				Ę	508 West Isbad, Ne	Stevens S	Street	Site Name:	PLU 13 DTD 108H	
				Ca	isbau, Ne	WIVIEXICO	88220	RP or Incident Number:	TE040004040	
		1.1711			0.4.4.01		_	LTE Job Number:	TE012921046	
Lat/Lo	na:	LITH	OLUG	SIC / SOII	Field Scre		G	Logged By EL Hole Diameter:	Method: Hand Auger Total Depth:	
32.209	9752, -103.	829603			Chloride,			3.25"	1'	
	nents:	otor in alu	dod in	chloride con					· · ·	
40% C	orrection ta	actor incil	ided in	chioride con	centrations		~			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth	Deptil	USCS/Rock Symbol	Litho	logy/Remarks	
Mo Co	ЧС С	y d)	Sta	Sar	(ft bgs)	(ft bgs)	JSC Sy			
						0				
					-	+				
D	1 1 2 0	0	NI	RH02	-	- 1	C M	0'-1': Sand, medium-coarse gi	rain, well graded,	
D	1,139	8	Ν	BH02	1'	1	SM	TD @ 1' bgs	1-0.2 cm, well consolidated, tan	
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_	_	_	21 10					BH or PH Name:	Date:	Page
					WS	PUSA		BH03	5/24/2021	
				Ę	508 West a risbad, Ne	Stevens S	Street	Site Name:	PLU 13 DTD 108H	
				Ca	isbau, ne	wiviexico	00220	RP or Incident Number		
		1.171.14			CAMDI		<u>_</u>	LTE Job Number:	TE012921046	
Lat/Loi	na.	LITHOLOGIC / SOIL SAMPLING LOG Field Screening:						Logged By EL Hole Diameter:	Method: Hand Auger Total Depth:	
32.209)687,-103.8	329738			Chloride,			3.25"	1'	
Comm		actor inclu	ided in	chloride con	centrations					
10 /0 00							\prec			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	L	ithology/Remarks	
20	0		0	S	(it bgo)		S N			
						0				
					-	ł				
					-	[0'-1': Sand, medium-coars	e grain, well-graded, some caliche	ľ
D	<179	1	Ν	BH03	1'	1	SM	gravel, 0.1-0.2 cm, v	well consolidated, tan	
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								BH or PH Name:	Date:	ag
					WS	PUSA		BH04	5/24/2021	
				5	508 West Isbad, Ne	Stevens S	Street	Site Name:	PLU 13 DTD 108H	
				Cal	isbad, ive	w wexico	88220	RP or Incident Number:		
					0.4.4.01		_	LTE Job Number:	TE012921046	
Lat/Lo	ng:	LITH	Field Screening:				G	Logged By EL Hole Diameter:	Method: Hand Auger Total Depth:	
32.209	9763,-103.8	829756			Chloride,			3.25"	1'	
Comm		otor in olu	dod in	chloride con					· · ·	
∔U% C	correction ta	actor inclu	iaea in	chioride con	centrations		~			
ure int	e) de) L	ng	# #	Sample	Danth	USCS/Rock Symbol			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth (ft bgs)	SCS/Roc Symbol	Litho	logy/Remarks	
ĕŏ	5 5	> 1	St	Sai	(ft bgs)	(11 595)	JSC Sy			
						0				
						<u>н</u> ~				
					-	L			and a set of the Pathan and a l	
D	213	0	Ν	BH04	1'	1	SM	0'-1': Sand, medium-coarse gi 0.1-0.2 cm, well consoli	rain, well graded, caliche gravel, dated_tan	
J	210	0	1 N	5104	, ,	1	Givi	TD @ 1' bgs		
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					MS	P USA		BH or PH Name:	Date:
								PH01	6/9/2021
				5	08 West Isbad, Ne	Stevens S w Mexico	Street 88220	Site Name:	PLU 13 DTD 108H
				Cal	135000, TVC	W WONICO	00220	RP or Incident Number: LTE Job Number:	TE012921046
	LITHOLOGIC / SOIL SAMPLING LOG							Logged By TC	Method: Backhoe
Lat/Lo	ng:		0200	Field Screening:				Hole Diameter:	Total Depth:
	9752, -103.	.829603			Chloride,	PID		2'	4'
Comm 40% c		actor inclu	ided in	chloride con	centrations				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Litho	ology/Remarks
_	0			0)			n		
					1	0			
					-	- - - 1			
					.	- - -			
D	230	1.2	Ν	PH01	2'	2	SP	0'-4': Sand, medium-coarse g gravel, 0.1-0.2 cm, well conso	grain, well graded, some caliche olidated, tan
						3			
D	<179	0.8	N	PH01A	4'	4			
D		0.0		111017		-		TD @ 4' bgs	
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					-	5			
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			PHOTOGRAPHIC LOG	
ХТС)		PLU 13 DTD 108H	NAPP2110460622
			Carlsbad, New Mexico	
Photo No.	Date			
1	May 10, 2	021		
view of release f	from the north	east		100
orner of the one	e-call area.			1
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PHOTOGRAPHIC LOG				
ХТО	PLU 13 DTD 108H	NAPP2110460622		
	Carlsbad, New Mexico			

Photo No.	Date
2	May 10, 2021
Secondary view	of release extent
	st corner of the one
call area.	

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PHOTOGRAPHIC LOG			
ХТО	PLU 13 DTD 108H	NAPP2110460622	
	Carlsbad, New Mexico		

Photo No.	Date
3	May 25, 2021
View of Borehole	

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PHOTOGRAPHIC LOG				
ХТО	PLU 13 DTD 108H	NAPP2110460622		
	Carlsbad, New Mexico			

Photo No. Date	Photo No.
4 May 25, 2021	4
4 May 25, 2021 ew of Borehole 02.	

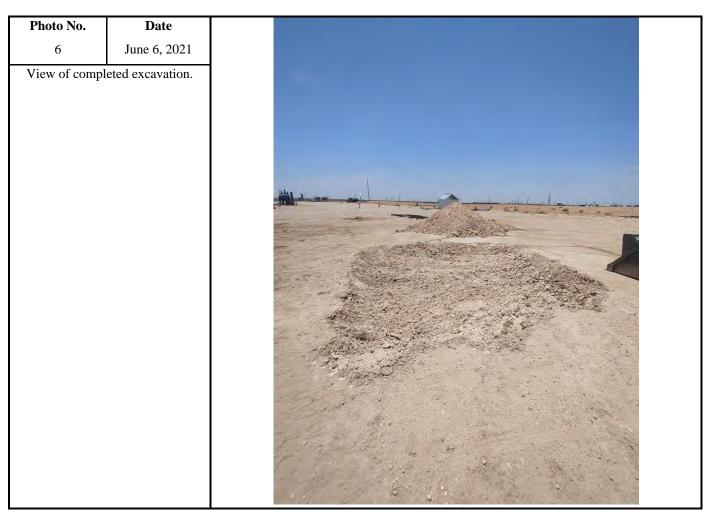
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		PH	OTOGRAPHIC LOG	
ХТО		F	PLU 13 DTD 108H	NAPP2110460622
		Ca	rlsbad, New Mexico	
Photo No.	Date			

Photo No.	Date	
5	June 6, 2021	
View of exca	vation activities.	

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PHOTOGRAPHIC LOG				
ХТО	PLU 13 DTD 108H	NAPP2110460622		
	Carlsbad, New Mexico			



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🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-657-1

Laboratory Sample Delivery Group: TE012921046 Client Project/Site: PLU 13 DTD 108H Revision: 1

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 5/17/2021 11:29:38 AM

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.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert

Visit us at: www.eurofinsus.com/Env Released to Imaging: 8/27/2021 2:15:38 PM

SDG: TE012921046

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Definitions/Glossary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H Job ID: 890-657-1 SDG: TE012921046

Qualifiers

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO		5
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		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	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)	4
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 POS	Negative / Absent	
FU3	Positive / Present	

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive Quality Control

Job ID: 890-657-1 SDG: TE012921046

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4

5

Job ID: 890-657-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-657-1

Receipt

The samples were received on 5/11/2021 3:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-657-1), SS02 (890-657-2), SS03 (890-657-3) and SS02 (890-657-4).

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: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Client Sample ID: SS01 Date Collected: 05/10/21 13:15 Date Received: 05/11/21 15:19 Sample Depth: - 0.5

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/12/21 13:07	05/12/21 22:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/12/21 13:07	05/12/21 22:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 19:15	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 19:15	1	
C10-C28)									
Oll Range Organics (Over	113		50.0	mg/Kg		05/11/21 16:30	05/12/21 19:15	1	
C28-C36)									
Total TPH	113		50.0	mg/Kg		05/11/21 16:30	05/12/21 19:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	99		70 - 130			05/11/21 16:30	05/12/21 19:15	1	
o-Terphenyl	111		70 - 130			05/11/21 16:30	05/12/21 19:15	1	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	U	Jnit	D	Prepared	Analyzed	Dil Fac
Chloride	131		4.97	n	ng/Kg			05/12/21 20:39	1

Client Sample ID: SS02 Date Collected: 05/10/21 13:22

Date Received: 05/11/21 15:19 Sample Depth: - 0.5

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		05/12/21 13:07	05/12/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/12/21 13:07	05/12/21 22:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/12/21 13:07	05/12/21 22:38	1

Lab Sample ID: 890-657-2

Matrix: Solid

5

Job ID: 890-657-1 SDG: TE012921046

Lab Sample ID: 890-657-1

Matrix: Solid

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Client Sample ID: SS02 Date Collected: 05/10/21 13:22

Date Received: 05/11/21 15:19 Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/11/21 16:30	05/12/21 19:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/11/21 16:30	05/12/21 19:36	1
Oll Range Organics (Over C28-C36)	110		49.9	mg/Kg		05/11/21 16:30	05/12/21 19:36	1
Total TPH	110		49.9	mg/Kg		05/11/21 16:30	05/12/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/11/21 16:30	05/12/21 19:36	1
o-Terphenyl	116		70 - 130			05/11/21 16:30	05/12/21 19:36	1

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		4.98	mg/Kg			05/12/21 20:44	1
Client Sample ID: SS03						Lah San	000 ID: 890.	657-3

Client Sample ID: 5503 Date Collected: 05/10/21 13:25 Date Received: 05/11/21 15:19 Sample Depth: - 0.5

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Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		05/12/21 13:07	05/12/21 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/12/21 13:07	05/12/21 22:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/12/21 13:07	05/12/21 22:59	1

Method: 8015B NM - Diesel	Range Organ	ics (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		05/11/21 16:30	05/12/21 19:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/11/21 16:30	05/12/21 19:58	1
Oll Range Organics (Over C28-C36)	75.6		49.9	mg/Kg		05/11/21 16:30	05/12/21 19:58	1
Total TPH	75.6		49.9	mg/Kg		05/11/21 16:30	05/12/21 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			05/11/21 16:30	05/12/21 19:58	1
o-Terphenyl	122		70 - 130			05/11/21 16:30	05/12/21 19:58	1
Method: 300.0 - Anions, lor	n Chromatogra	iphy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.05	mg/Kg			05/12/21 20:49	1

19:30		

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Matrix: Solid

Job ID: 890-657-1

Matrix: Solid

SDG: TE012921046

Lab Sample ID: 890-657-2

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Client Sample ID: SS04 Date Collected: 05/10/21 13:30 Date Received: 05/11/21 15:19 Sample Depth: - 0.5

Method: 8021B - Volatile Orga	anic Compou	unds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/12/21 13:07	05/12/21 23:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/12/21 13:07	05/12/21 23:19	1
_ Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 20:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 20:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 20:19	1
Total TPH	<50.0	U	50.0	mg/Kg		05/11/21 16:30	05/12/21 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/11/21 16:30	05/12/21 20:19	1

o-Terphenyl	114	70 - 130			05/11/21 16:30	05/12/21 20:19	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble					
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273	4.98	mg/Kg			05/12/21 21:05	1

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Job ID: 890-657-1 SDG: TE012921046

Lab Sample ID: 890-657-4

Matrix: Solid

Surrogate Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Percen	t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-657-1	SS01	105	100	
890-657-2	SS02	99	98	
890-657-3	SS03	111	103	
890-657-4	SS04	104	99	
LCS 880-3028/1-A	Lab Control Sample	106	107	
LCSD 880-3028/2-A	Lab Control Sample Dup	107	105	
MB 880-3028/5-A	Method Blank	91	94	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

			Perce	ent Surrogate Recovery (Acceptance Limits)
Semale ID	Client Comple ID	1CO1 (70-130)	OTPH1 (70-130)	
ample ID 57-1	Client Sample ID SS01	99	111	
-2	SS02	103	116	
3	SS03	110	122	
1	SS04	102	114	
2989/2-A	Lab Control Sample	105	107	
380-2989/3-A	Lab Control Sample Dup	108	113	
)-2989/1-A	Method Blank	106	126	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Job ID: 890-657-1 SDG: TE012921046

Prep Type: Total/NA 5 6 7 Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3028/5-A Matrix: Solid Analysis Batch: 3029

· ·····, · ···· · · ····	МВ	МВ						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		05/12/21 13:07	05/12/21 16:30	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			05/12/21 13:07	05/12/21 16:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/12/21 13:07	05/12/21 16:30	1

Lab Sample ID: LCS 880-3028/1-A Matrix: Solid Analysis Batch: 3029

· ·	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09171		mg/Kg		92	70 - 130	
Toluene	0.100	0.08739		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09124		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1943		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-3028/2-A Matrix: Solid Analysis Batch: 3029

Analysis Batch: 3029								Prep	Batch:	3028
-		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.100	0.1011		mg/Kg		101	70 - 130	10	35
Toluene		0.100	0.09671		mg/Kg		97	70 - 130	10	35
Ethylbenzene		0.100	0.1028		mg/Kg		103	70 - 130	12	35
m-Xylene & p-Xylene		0.200	0.2190		mg/Kg		109	70 - 130	12	35
o-Xylene		0.100	0.1134		mg/Kg		113	70 - 130	11	35
	LCSD LCSD									

	LCSD LCS	D
Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

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

Client Sample ID: Lab Control Sample Dup

ep Type: Total/NA	
Prep Batch: 3028	

Prep Type: Total/NA

Job ID: 890-657-1

SDG: TE012921046

Prep Type: Total/NA

Prep Batch: 3028

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Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

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

Matrix: Solid Analysis Batch: 3000									Prep Typ Prep B		
Analysis Batch. 3000	ME	MB							Piep D	alch	. 2903
Analyte		t Qualifier	RL		Unit		D	Prepared	Analyze	d	Dil Fac
Gasoline Range Organics	<50.0				mg/K			/11/21 15:50			1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0) U	50.0)	mg/K	g	05/	/11/21 15:50	05/12/21 1	1:45	1
C10-C28) Oll Range Organics (Over C28-C36)) <50.0) U	50.0)	mg/K	g	05/	/11/21 15:50	05/12/21 1	1:45	1
Total TPH	<50.0) U	50.0)	mg/K	g	05	/11/21 15:50	05/12/21 1	1:45	1
	ME	B MB									
Surrogate	%Recovery	v Qualifier	Limits					Prepared	Analyze	d	Dil Fac
1-Chlorooctane	106	5	70 - 130	-			05	/11/21 15:50	05/12/21 1	1:45	1
o-Terphenyl	126	6	70 - 130				05,	/11/21 15:50	05/12/21 1	1:45	1
Lab Sample ID: LCS 880-29	89/2-A					Clie	ent Sa	ample ID:	Lab Cont	rol S	ample
Matrix: Solid									Prep Typ	e: To	tal/NA
Analysis Batch: 3000									Prep B		
-			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	878.4		mg/Kg		88	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)			1000	1140		mg/Kg		114	70 - 130		
	LCS LC	S									
Surrogate	%Recovery Qu	alifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	107		70 - 130								
Lab Sample ID: LCSD 880-2	2989/3-A				c	Client Sa	ample	e ID: Lab	Control S	ampl	e Dup
Matrix: Solid									Prep Typ	e: To	tal/NA
Analysis Batch: 3000									Prep B	Batch	: 2989
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.5		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1203		mg/Kg		120	70 - 130	5	20
	LCSD LC	SD									
Surrogate	%Recovery Qu		Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	113		70 - 130 70 - 130								
 Method: 300.0 - Anions,	Ion Chrom	atogra	ohy								
-								iont Som		thed	Plank
Lab Sample ID: MB 880-301	10/1 -A						U	ient Sam	ple ID: Me		
Matrix: Solid									Prep Typ	be: 2	
Analysis Batch: 3048											

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/12/21 19:21	1

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Job ID: 890-657-1 SDG: TE012921046

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-657-1 SDG: TE012921046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3 Matrix: Solid	3018/2-A					Clier	nt Sai	mple ID	: Lab Cor	ntrol Sa ype: Sc	
Analysis Batch: 3048									гіер і	ype. Sc	Juble
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	247.5		mg/Kg		99	90 - 110		
Lab Sample ID: LCSD 880	-3018/3-A				C	lient Sa	mple	ID: Lab	Control	Sample	Dup
Matrix: Solid										ype: So	
Analysis Batch: 3048											
-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	244.0		mg/Kg		98	90 - 110	1	20
Lab Sample ID: 890-657-3	MS							С	lient Sam	ple ID:	SS 03
Matrix: Solid										ype: Sc	
Analysis Batch: 3048											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	168		253	427.0		mg/Kg		103	90 - 110		
Lab Sample ID: 890-657-3	MSD							С	lient Sam	ple ID:	SS0 3
Matrix: Solid										ype: Sc	
Analysis Batch: 3048											
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	168		253	425.4		mg/Kg		102	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-657-1 SDG: TE012921046

GC VOA

Prep Batch: 3028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-657-1	SS01	Total/NA	Solid	5035	
890-657-2	SS02	Total/NA	Solid	5035	
890-657-3	SS03	Total/NA	Solid	5035	
890-657-4	SS04	Total/NA	Solid	5035	
MB 880-3028/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3028/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3028/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3029

		10tai/10t	Cond	0000		2
Analysis Batch: 302	9					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-657-1	SS01	Total/NA	Solid	8021B	3028	
890-657-2	SS02	Total/NA	Solid	8021B	3028	
890-657-3	SS03	Total/NA	Solid	8021B	3028	
890-657-4	SS04	Total/NA	Solid	8021B	3028	
MB 880-3028/5-A	Method Blank	Total/NA	Solid	8021B	3028	
LCS 880-3028/1-A	Lab Control Sample	Total/NA	Solid	8021B	3028	
LCSD 880-3028/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3028	
GC Semi VOA						

GC Semi VOA

Prep Batch: 2989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-657-1	SS01	Total/NA	Solid	8015NM Prep	
890-657-2	SS02	Total/NA	Solid	8015NM Prep	
890-657-3	SS03	Total/NA	Solid	8015NM Prep	
890-657-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-2989/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2989/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 3000

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-657-1	SS01	Total/NA	Solid	8015B NM	2989
890-657-2	SS02	Total/NA	Solid	8015B NM	2989
890-657-3	SS03	Total/NA	Solid	8015B NM	2989
890-657-4	SS04	Total/NA	Solid	8015B NM	2989
MB 880-2989/1-A	Method Blank	Total/NA	Solid	8015B NM	2989
LCS 880-2989/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2989
LCSD 880-2989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2989

HPLC/IC

Leach Batch: 3018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-657-1	SS01	Soluble	Solid	DI Leach	
890-657-2	SS02	Soluble	Solid	DI Leach	
890-657-3	SS03	Soluble	Solid	DI Leach	
890-657-4	SS04	Soluble	Solid	DI Leach	
MB 880-3018/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3018/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3018/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-657-3 MS	SS03	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

HPLC/IC (Continued)

LCSD 880-3018/3-A

890-657-3 MS

890-657-3 MSD

Leach Batch: 3018 (Continued)

Lab Control Sample Dup

SS03

SS03

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-657-3 MSD	SS03	Soluble	Solid	DI Leach	
Analysis Batch: 304	48				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-657-1	SS01	Soluble	Solid	300.0	3018
890-657-2	SS02	Soluble	Solid	300.0	3018
890-657-3	SS03	Soluble	Solid	300.0	3018
890-657-4	SS04	Soluble	Solid	300.0	3018
MB 880-3018/1-A	Method Blank	Soluble	Solid	300.0	3018
LCS 880-3018/2-A	Lab Control Sample	Soluble	Solid	300.0	3018

Soluble

Soluble

Soluble

Solid

Solid

Solid

300.0

300.0

300.0

Job ID: 890-657-1 SDG: TE012921046

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3018

3018

3018

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Job ID: 890-657-1 SDG: TE012921046

Lab Sample ID: 890-657-1 Matrix: Solid

Lab Sample ID: 890-657-2

Lab Sample ID: 890-657-3

Matrix: Solid

Matrix: Solid

Date Collected: 05/10/21 13:15 Date Received: 05/11/21 15:19

Client Sample ID: SS01

Project/Site: PLU 13 DTD 108H

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 22:18	KL	XM
Total/NA	Prep	8015NM Prep			2989	05/11/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3000	05/12/21 19:15	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		1	3048	05/12/21 20:39	СН	XM

Client Sample ID: SS02 Date Collected: 05/10/21 13:22 Date Received: 05/11/21 15:19

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 22:38	KL	XM
Total/NA	Prep	8015NM Prep			2989	05/11/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3000	05/12/21 19:36	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		1	3048	05/12/21 20:44	CH	XM

Client Sample ID: SS03 Date Collected: 05/10/21 13:25 Date Received: 05/11/21 15:19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 22:59	KL	XM
Total/NA	Prep	8015NM Prep			2989	05/11/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3000	05/12/21 19:58	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		1	3048	05/12/21 20:49	СН	XM

Client Sample ID: SS04 Date Collected: 05/10/21 13:30 Date Received: 05/11/21 15:19

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3028	05/12/21 13:07	KL	XM
Total/NA	Analysis	8021B		1	3029	05/12/21 23:19	KL	XM
Total/NA	Prep	8015NM Prep			2989	05/11/21 16:30	AM	XM
Total/NA	Analysis	8015B NM		1	3000	05/12/21 20:19	AJ	XM
Soluble	Leach	DI Leach			3018	05/12/21 09:43	SC	XM
Soluble	Analysis	300.0		1	3048	05/12/21 21:05	СН	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

21 20:49 СН XM Lab Sample ID: 890-657-4 Matrix: Solid

Released to Imaging: 8/27/2021 2:15:38 PM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-657-1 SDG: TE012921046

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date	
exas	NE	LAP	T104704400-20-21	06-30-21	
the agency does not o	•	rt, but the laboratory is r	, , , , ,	This list may include analytes for which	
0,	•	nt, but the laboratory is r	Analyte	I his list may include analytes for which	
the agency does not o	offer certification.		, , , , ,	I his list may include analytes for whic	

Method Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H Job ID: 890-657-1 SDG: TE012921046

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
3015NM 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 13 DTD 108H Job ID: 890-657-1 SDG: TE012921046

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-657-1	SS01	Solid	05/10/21 13:15	05/11/21 15:19	- 0.5	
390-657-2	SS02	Solid	05/10/21 13:22	05/11/21 15:19	- 0.5	
390-657-3	SS03	Solid	05/10/21 13:25	05/11/21 15:19	- 0.5	2
390-657-4	SS04	Solid	05/10/21 13:30	05/11/21 15:19	- 0.5	
						8
						9
						1
						1
						4

Revised Date 051418 Rev. 2018			6								G
			4								3
			15:19 2		5.11.2			000	N		1 2 100
gnature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)		Date/Time	Da	e)	Received by: (Signature)	Received		/: (Signature	Relinquished by: (Signature)
	ces beyond the control ously negotiated.	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rred by the c ot analyzed.	penses incu enco, but n	itted to X	onsibility for any los or each sample subr	assume any resp a charge of \$5 fr	es and shall not a each project and	ne cost of sample rill be applied to c	liable only for t arge of \$75.00 v	of service. Xenco will be of Xenco. A minimum ch
	terms and conditions	Notice: Stanetwy of this document and reinquismment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	, its affiliates	ny to Xenco	nt compa	hase order from clie	utes a valid purc	samples constit	elinguishment of	document and r	Notice: Signature of this
O2 Na Sr Ti Sn U V Zn 1631/245.1/7470/7471:Hg	n Mo Ni K Se Ag SiO2 Ag TI U	Ca Cr Co Cu Fe Pb Mg Mn Mo Ni r Co Cu Pb Mn Mo Ni Se Ag Ti U	Be B Cd (Be Cd Cr	As Ba As Ba	SP SP	Texas 11 010: 8RC	BRCRA 13PPM TCLP / SPLP 6		200.8 / 6020: Metal(s) to be ar	010 200. I(s) and Met	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
			+-		╞						
DD.2019.02645.CAP.CMP.01											
DD.2017.04370.CAP.CMP.01											
DD.2017.04353.CAP.CMP.01			×	×	1 X	0.5'	1330	5/10/2021	S	S	SS02
DD.2017.04390.CAP.CMP.01			×	×	1 ×	0.5'	1325	5/10/2021	S	ß	SS03
DD.2017.04421.CAP.CMP.01			×	×	 ×	0.5	1322	5/10/2021	S	2	SS02
AFE's (5 total):			×	×		0.5'	1315	5/10/2021	S	ž	SS01
Sample Comments			Chlorid	BTEX (Numbo	Depth	Time Sampled	Date Sampled	Matrix	ntification	Sample Identification
lab, if received by 4:30pm			le (El	EPA			Total Containers:	Tota	No No		Sample Custody Seals:
TAT starts the day recevied by the	-		PA 3	0=80		, , ,	Correction Factor:	Corr	No	s: Yes	Cooler Custody Seals:
	ody	890-657 Chain of Custody	00.0	021)			LAO.	T-NM	(Yes No	6	Received Intact:
)		ner		Thermometer ID		12.8	3,0	Temperature (°C):
					s 	Yes No	Wet Ice:	(Yes No	Temp Blank:	IPT	SAMPLE RECEIPT
)ate:	Due Date:		_	Luis Del Val	Sampler's Name:
API: 30-015-45839							H Rush:	, 166502100	CC's: 1664941001, 1665021001	CC's:	P.O. Number:
Incident ID: NAPP211046062;						E E	Routine	1046	TE012921046		Project Number:
Work Order Notes		ANALYSIS REQUEST				Turn Around	Τu	0 108H	PLU 13 DTD 108H		Project Name:
ADaPT LJ Other:	Deliverables: EDD		norrissey	tacoma.r	p.com;	Email: <u>luis.delval@wsp.com; tacoma.morrissey@wsp.com</u>	Email:		49	432.236.3849	Phone:
Ľ] evel III	Report	88220	Carlsbad, NM 88220	Car	City, State ZIP:			(79705	Midland, TX 79705	City, State ZIP:
]		Sta	Street	3104 E Green Street	310	Address:			A Street	3300 North A Street	Address:
PRP Brownfields RC Depertund		Progra		XTO Energy		Company Name:			Inc.	WSP USA Inc.	Company Name:
Work Order Comments				Kyle Littrell	Kyle	Bill to: (if different)			orrissey	Tacoma Morrissey	Project Manager:
.com Page of	www.xenco.com	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	nta,GA (770	0900) Atla	480-355	550) Phoenix,AZ	,NM (575-392-7	Hobbs			
L L		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	-0300 San 585-3443 Li	< (214) 902 5,TX (915)5	Dallas,T. EL Pas	"X (281) 240-4200 TX (432-704-5440	Houston, ¹ Midland,				
er No:	Work Order No:	ody	Chain of Custody	in of	Cha						

Received by OCD: 6/29/2021 10:28:33 AM



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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 657 List Number: 1 **Creator: Clifton, Cloe**

<6mm (1/4").

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

Job Number: 890-657-1 SDG Number: TE012921046 4 5 7 8 9 10 11 12 13 List Source: Eurofins Carlsbad 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 657 List Number: 2 Creator: Copeland, Tatiana

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	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-657-1 SDG Number: TE012921046

List Source: Eurofins Midland

List Creation: 05/12/21 03:37 PM

Received by OCD: 6/29/2021 10:28:33 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-727-1

Laboratory Sample Delivery Group: TE012921046 Client Project/Site: PLU 13 DTD 108H

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 5/28/2021 8:12:28 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.

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/27/2021 2:15:38 PM

SDG: TE012921046

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	Definitions/Glossary		
Client: WSP US Project/Site: PL	SA Inc. U 13 DTD 108H	Job ID: 890-727-1 SDG: TE012921046	2
Qualifiers			3
GC VOA Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA Qualifier	Qualifier Description		5
U	Indicates the analyte was analyzed for but not detected.		6
HPLC/IC Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			8
Abbreviation	These commonly used abbreviations may or may not be present in this report.		9
¤	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)		1
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		1
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
- Method Quantitation Limit MQL NC Not Calculated
- Not Detected at the reporting limit (or MDL or EDL if shown) ND
- NEG Negative / Absent
- POS Positive / Present
- PQL Practical Quantitation Limit PRES
- Presumptive Quality Control QC
- RER
- Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry)
- RPD Relative Percent Difference, a measure of the relative difference between two points
- TEF Toxicity Equivalent Factor (Dioxin)
- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 890-727-1 SDG: TE012921046

Job ID: 890-727-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-727-1

Receipt

The samples were received on 5/25/2021 12:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: BH01 (890-727-1), BH02 (890-727-2), BH03 (890-727-3) and BH04 (890-727-4).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-3530 recovered above the upper control limit for Toluene The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH01 (890-727-1), BH02 (890-727-2), BH03 (890-727-3), BH04 (890-727-4) and (CCV 880-3530/20).

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.

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

0.00399

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-727-1 SDG: TE012921046

Client Sample ID: BH01

Project/Site: PLU 13 DTD 108H

Date Collected: 05/24/21 13:45 Date Received: 05/25/21 12:32

Sample Depth: -1

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Lab Sample ID: 890-727-1

Analyzed

05/27/21 00:01

05/27/21 00:01

05/27/21 00:01

Lab Sample ID: 890-727-2

Matrix: Solid

Matrix: Solid

mg/Kg	05/26/21 12:00	05/27/21 00:01
mg/Kg	05/26/21 12:00	05/27/21 00:01
mg/Kg	05/26/21 12:00	05/27/21 00:01
mg/Kg	05/26/21 12:00	05/27/21 00:01
	Prepared	Analyzed
	Prepared 05/26/21 12:00	Analyzed 05/27/21 00:01
	05/26/21 12:00	05/27/21 00:01

Prepared

05/26/21 12:00

05/26/21 12:00

05/26/21 12:00

D

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<0.00399 U

%Recovery Qualifier

110

98

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/26/21 10:57	05/26/21 19:33	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/26/21 10:57	05/26/21 19:33	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/26/21 10:57	05/26/21 19:33	1	
Total TPH	<50.0	U	50.0	mg/Kg		05/26/21 10:57	05/26/21 19:33	1	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	05/26/21 10:57	05/26/21 19:33	1
o-Terphenyl	96		70 - 130	05/26/21 10:57	05/26/21 19:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quali		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.6	5.02	mg/Kg			05/28/21 11:58	1

Client Sample ID: BH02

Date Collected: 05/24/21 14:10 Date Received: 05/25/21 12:32

Sample Depth: -1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		05/26/21 12:00	05/27/21 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			05/26/21 12:00	05/27/21 00:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/26/21 12:00	05/27/21 00:26	1

Job ID: 890-727-1 SDG: TE012921046

Client Sample ID: BH02

Project/Site: PLU 13 DTD 108H

Date Collected: 05/24/21 14:10 Date Received: 05/25/21 12:32

Sample Depth: - 1

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/26/21 10:57	05/26/21 19:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	2370		49.8	mg/Kg		05/26/21 10:57	05/26/21 19:55	1
C10-C28)								
Oll Range Organics (Over	389		49.8	mg/Kg		05/26/21 10:57	05/26/21 19:55	1
C28-C36)								
Total TPH	2760		49.8	mg/Kg		05/26/21 10:57	05/26/21 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			05/26/21 10:57	05/26/21 19:55	1
o-Terphenyl	88		70 - 130			05/26/21 10:57	05/26/21 19:55	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		4.98	mg/Kg			05/28/21 12:03	1

Date Collected: 05/24/21 14:32

Date Received: 05/25/21 12:32

Sample Depth: -1

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		05/26/21 12:00	05/27/21 00:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/26/21 12:00	05/27/21 00:50	1
1,4-Difluorobenzene (Surr)	96		70 _ 130			05/26/21 12:00	05/27/21 00:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 20:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	53.4		49.9	mg/Kg		05/26/21 10:57	05/26/21 20:16	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/26/21 10:57	05/26/21 20:16	1
Total TPH	53.4		49.9	mg/Kg		05/26/21 10:57	05/26/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/26/21 10:57	05/26/21 20:16	1
o-Terphenyl	100		70 - 130			05/26/21 10:57	05/26/21 20:16	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		5.03	mg/Kg			05/28/21 12:08	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-727-2

Matrix: Solid

Matrix: Solid

Job ID: 890-727-1 SDG: TE012921046

Client Sample ID: BH04

Project/Site: PLU 13 DTD 108H

Date Collected: 05/24/21 15:04 Date Received: 05/25/21 12:32

Client: WSP USA Inc.

Lab Sample ID: 890-727-4

Matrix: Solid

Method: 8021B - Volatile Organic	c Compounds ((GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		05/26/21 12:00	05/27/21 01:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/26/21 12:00	05/27/21 01:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/26/21 12:00	05/27/21 01:15	1
Method: 8015B NM - Diesel Rang	ae Organics (D	RO) (GC)						
welliou. ou isb ww - blesel hang	,							
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u> </u>	Prepared 05/26/21 10:57	Analyzed 05/26/21 20:37	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	05/26/21 10:57	05/26/21 20:37	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	· · · · · · · · · · · · · · · · · · ·		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57	05/26/21 20:37 05/26/21 20:37	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9	mg/Kg	<u> </u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 20:37 05/26/21 20:37 05/26/21 20:37	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	Qualifier U U U	49.9	mg/Kg	<u>D</u>	05/26/21 10:57 05/26/21 10:57	05/26/21 20:37 05/26/21 20:37	Dil Fac 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u> </u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 20:37 05/26/21 20:37 05/26/21 20:37	Dil Fac 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u> </u>	05/26/21 10:57 05/26/21 10:57 05/26/21 10:57 05/26/21 10:57	05/26/21 20:37 05/26/21 20:37 05/26/21 20:37 05/26/21 20:37	1 1 1

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	191		4.98	mg/Kg			05/28/21 12:13	1

Job ID: 890-727-1 SDG: TE012921046

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		5
Lab Sample ID 890-727-1	Client Sample ID BH01	(70-130) 	(70-130) 98		
890-727-2	BH02	126	91		6
890-727-3	BH03	106	96		
890-727-4	BH04	108	100		
LCS 880-3520/1-A	Lab Control Sample	108	98		
LCS 880-3520/2-A	Lab Control Sample	103	95		8
MB 880-3520/5-A	Method Blank	70	82		
Surrogate Legend					9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ib Sample ID	Client Sample ID	(70-130)	(70-130)	
727-1	BH01	94	96	
-727-2	BH02	95	88	
727-3	BH03	97	100	
27-4	BH04	78	79	
80-3527/2-A	Lab Control Sample	100	95	
D 880-3527/3-A	Lab Control Sample Dup	101	96	
880-3527/1-A	Method Blank	100	103	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: PLU 13 DTD 108H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3520/ Matrix: Solid	5-A							C	lient Sa	ample ID: Meth Prep Type	
Analysis Batch: 3530										Prep Ba	tch: 352
	ME	MB									
Analyte		Qualifier	RL		Unit		D	Pre	pared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
Toluene	<0.00200	U	0.00200		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
Ethylbenzene	<0.00200	U	0.00200		mg/K	íg	(05/26/	21 12:00	05/26/21 15:31	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
o-Xylene	<0.00200	U	0.00200		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
Xylenes, Total	<0.00400	U	0.00400		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
Total BTEX	<0.00400	U	0.00400		mg/K	(g	(05/26/	21 12:00	05/26/21 15:31	
	ME	B MB									
Surrogate	%Recovery	Qualifier	Limits				_	Pre	pared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	70)	70 - 130				(05/26/	21 12:00	05/26/21 15:31	
1,4-Difluorobenzene (Surr)	82	2	70 - 130				(05/26/	21 12:00	05/26/21 15:31	
Lab Sample ID: LCS 880-3520 Matrix: Solid)/ 1-A						Cli	ent S	Sample	ID: Lab Contro Prep Type:	
Analysis Batch: 3530										Prep Ba	tch: 352
			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1159		mg/Kg			116	70 - 130	
Toluene			0.100	0.09439		mg/Kg			94	70 ₋ 130	
Ethylbenzene			0.100	0.1041		mg/Kg			104	70 - 130	
m-Xylene & p-Xylene			0.200	0.2101		mg/Kg			105	70 - 130	
o-Xylene			0.100	0.1016		mg/Kg			102	70 - 130	
	LCS LCS	s									
Surrogate	%Recovery Qu	alifier	Limits								
4-Bromofluorobenzene (Surr)	108		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								
Lab Sample ID: LCS 880-3520)/2-A						Cli	ent S	Sample	ID: Lab Contro	ol Sample
Matrix: Solid										Prep Type:	Total/N/
Analysis Batch: 3530										Prep Ba	tch: 352
-			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1131		mg/Kg			113	70 - 130	
Toluene			0.100	0.09802		mg/Kg			98	70 - 130	
Ethylbenzene			0.100	0.1016		mg/Kg			102	70 - 130	
m-Xylene & p-Xylene			0.200	0.2052		mg/Kg			103	70 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Job ID: 890-727-1 SDG: TE012921046

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

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

Math:::: Solid Prop. Type:: TotalNAP. Analycic Result Outsitier Prop. Type:: TotalNAP. Analycic Result Outsitier Prop. Type:: TotalNAP. Prop. Type:: TotalNAP. Analycic Result Outsitier Prop. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Analycic Analycic Method Science Analycic Dif Prep. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Analycic Result Qualifier Limits Dif Prep. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Surrogate Surrogate Surrogate Surrogate Dif Prep. Type:: TotalNAP. Dif Prep. Type:: TotalNAP. Surrogate Surrogate Surrogate Surrogate Dif Prep. TotalNAP. Dif Prep. TotalNAP. Surrogate Surrogate Surrogate Surrogate Dif Prep. TotalNAP. Surrogate Surrogate Surrogate Surrogate Dif Prep. TotalNAP. Analyce Dif Dif Dif Dif Dif Dif	Lab Sample ID: MB 880-3527/1	-A										Client Sa	mple ID: N	lethod	Blank		
Prop Batch: 3527 Prop Batch: 3527 Analysis Batch: 3504 Prop Batch: 3527 Analysis Particit Prop Batch: 3527 Analysis Particit Prop Batch: 3527 Analysis Particit Prop Batch: 3527 Prop Particit Prop Particit <th colspan="2" particit<="" prop="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td></td>																
Net Net Net Unit D Prepared Analyzed Dif Fac Gasome Range Organice <50.0	Analysis Batch: 3504													-			
Gaseline Range Organics -50.0 U 50.0 mg/Kg 0526211057 0528211245 1 Desc Range Organics (Over CHO-28) -50.0 U 50.0 mg/Kg 0526211057 0528211245 1 Dife Range Organics (Over CHO-28) -50.0 U 50.0 mg/Kg 0526211057 0528211245 1 Off Range Organics (Over C28-C38) -50.0 U 50.0 mg/Kg 0528211057 0528211245 1 Total TPH MB MB <t< td=""><td></td><td></td><td>ΜВ</td><td>МВ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			ΜВ	МВ													
Circlo-Oc-Cri0 Dise Dis Dise Dise	Analyte	Re	sult	Qualifier		RL		Uni	t	D	Pi	repared	Analyze	d	Dil Fac		
CitCO-20-01 Deser Range Organica (Over C28-C38) S50.0 U S50.0 mg/kg 05282211057 052822112.45 1 Otl Range Organica (Over C28-C38) S50.0 U S00 mg/kg 05282211057 052822112.45 1 Otl Range Organica (Over C28-C38) MB MA Matrix: Stold Matrix: Stold MB MB MA MB MB MB MB MB MB MA <td>Gasoline Range Organics</td> <td></td> <td>50.0</td> <td>U</td> <td>50</td> <td>0.0</td> <td></td> <td>mg,</td> <td>Kg</td> <td></td> <td>05/26</td> <td>6/21 10:57</td> <td>05/26/21 12</td> <td>2:45</td> <td>1</td>	Gasoline Range Organics		50.0	U	50	0.0		mg,	Kg		05/26	6/21 10:57	05/26/21 12	2:45	1		
Cit-Cit20 Diffange Organics (Over C28-C36) 50.0 mgKg 05/26/21 10.57 05/26/21 12.45 1 MB MB Surrogate 50.0 00 70.130 05/26/21 10.57 05/26/21 12.45 1 Surrogate 5/Recovery Qualifier Limits 00 70.130 05/26/21 10.57 05/26/21 12.45 1 Lab Sample ID: LCS 880-3527/2-A Matrix: St01 Differe 00 100 107 05/26/21 10.57 05/26/21 12.45 1 Lab Sample ID: LCS 880-3527/3-A Splike LCS LCS Vergenered	(GRO)-C6-C10																
Oli Range Organics (Over C28-C36) <50.0 mgKg 0528/21 10.77 0528/21 12.45 1 Total TPH <80.0		<{	50.0	U	50	0.0		mg	Kg		05/20	6/21 10:57	05/26/21 12	2:45	1		
HB Surragate %Recovery Qualifier Limits Prepared Analyzed Differ 1-Chiorocotane 100 70 - 130 05262/1 10.57 05262/1 12.45 1 Lab Sample ID: LCS 880-3527/2-A Matrix: Solid Prepared Analyzet Differ Analysis Batch: 3504 Spike LCS LCS Wrep Type: Total/NA Analysis Batch: 3504 Spike LCS LCS Wrep Batch: 3527 Matrix: Solid 1000 1073 mg/Kg 107 70 - 130 GRO/G-GC 10 1070 107 70 - 130 107 70 - 130 Dised Range Organics (Over C10-C28) LCS LCS Wrep With Wrep With Minits Lab Sample ID: LCSD B80-3527/3-A Matrix: Solid Prep Type: Total/NA Prep Type: Total/NA Lab Sample ID: LCSD B80-3527/3-A Spike LCSD LCSD Wrep With: Rec RPD Matrix: Solid Analysis Batch: 3504 Prep Type: Total/NA Prep Type: Total/NA Analysis Batch: 3504 Spike LCSD LCSD Wrep With: Rec RPD	,	<	50.0	U	50	0.0		mg	Kg		05/20	6/21 10:57	05/26/21 12	2:45	1		
Surrogate 'iffecovery Qualifier 1-Chirocotane Limits 100 Prepared 70 - 130 Prepared 0526/21 12:45 Dil Fac 0526/21 12:45 Dil Fa	Total TPH	<;	50.0	U	50	0.0		mg	Kg		05/20	6/21 10:57	05/26/21 12	2:45	1		
1-Cheroscelane 100 70-130 0528/21 10.57 0528/21 10.45 1 1-Cheroscelane 103 70-130 0528/21 10.57 0528/21 10.45 1 1-Lab Sample ID: LCS 880-3527/2-A Matrix: Solid Client Sample ID: Lab Control Sample Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec. Himits (GRO)-CS-C10 1000 1073 mg/kg 107 70-130 70-130 Diesel Range Organics (Over 1000 1074 mg/kg 117 70-130 70-130 C10-C28) LCS			ΜВ	МВ													
o-Fephenyl 103 70 - 130 0528/211 0.57 0528/21 12.45 1 Lab Sample ID: LCS 880-3527/2-A Matrix: Solid Analysis Batch: 3504 Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 3507 Analyce Gasoline Range Organics (CRO, O-CA:01 Added Matrix: Solid Analysis Batch: 3504 Nit D %Rec. Market Matrix: Solid Matrix: Solid Matrix: Solid Matrix: Solid Matrix: Solid Matrix: Solid Analysis Batch: 3504 LCS	Surrogate	%Recov	very	Qualifier	Limits						Pi	repared	Analyze	d	Dil Fac		
Lab Sample ID: LCS 880-3527/2-A Client Sample ID: Lab Control Sample Prop Type: Total/NA Analysis Batch: 3504 Prop Type: Total/NA Analysis Batch: 3504 Spike LCS L	1-Chlorooctane		100		70 - 130	0					05/2	6/21 10:57	05/26/21 1	2:45	1		
Matrix: Solid Prep Type: Total/NA Analysis Batch: 3504 Prep Batch: 3527 Analysis Batch: 3504 US Prep Batch: 3527 Analysis Batch: 3504 US US <th co<="" td=""><td>o-Terphenyl</td><td></td><td>103</td><td></td><td>70 - 130</td><td>0</td><td></td><td></td><td></td><td></td><td>05/2</td><td>6/21 10:57</td><td>05/26/21 1</td><td>2:45</td><td>1</td></th>	<td>o-Terphenyl</td> <td></td> <td>103</td> <td></td> <td>70 - 130</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td>05/2</td> <td>6/21 10:57</td> <td>05/26/21 1</td> <td>2:45</td> <td>1</td>	o-Terphenyl		103		70 - 130	0					05/2	6/21 10:57	05/26/21 1	2:45	1	
Matrix: Solid Prep Type: Total/NA Analysis Batch: 3504 Prep Batch: 3527 Analysis Batch: 3504 US Prep Batch: 3527 Analysis Batch: 3504 US US <th co<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td></td>																
Prep Batch: 3504 Prep Batch: 3527 Analyte Added Result Qualifier Unit D %Rec. Limits Gasoline Range Organics (GRO)-GS-C10 1000 1073 mg/Kg 107 70 - 130 - - Disel Range Organics (Over C10-C28) LCS LCS - <td< td=""><td>Lab Sample ID: LCS 880-3527/2</td><td>2-A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>C</td><td>Client</td><td>Sample</td><td>D: Lab Co</td><td>ntrol S</td><td>ample</td></td<>	Lab Sample ID: LCS 880-3527/2	2-A								C	Client	Sample	D: Lab Co	ntrol S	ample		
Analyte Added Result Qualifier Unit D % Rec. Analyte 000 1073 mg/Kg 107 70.130 70.130 Gracyline Range Organics (Over C10-C28) 1000 1174 mg/Kg 117 70.130 70.130 Surrogate % Recovery % Recovery Qualifier Limits Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Lab Sample ID: LCSD 880-3527/3-A Spike LCSD LCSD Prep Type: Total/NA Matrix: Solid Spike LCSD LCSD Prep Type: Total/NA Analyte Added Result Qualifier Unit D % Rec. RPD Matrix: Solid Spike LCSD LCSD Kec RPD Analyte Added Result Qualifier Unit D % Rec. RPD Lab Sample Organics (Over C10-C28) 1000 1193 mg/Kg 119 70.130 2 20 Surogate % Recovery Qualifier Limits To .130	Matrix: Solid												Prep Ty	vpe: To	tal/NA		
Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics (GRO)-C6: C10 1000 1073 mg/Kg 107 70 - 130 Diesel Range Organics (GRO)-C6: C10 1000 1174 mg/Kg 117 70 - 130 C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 1-Chiorooctane 100 70 - 130 70 - 130 Prep Type: Total/NA Matrix: Solid Analysis Batch: 3504 Prep Type: Total/NA Analysis Batch: 3504 Prep Total/NA Prep Type: Total/NA Gasoline Range Organics (GRO)-C5C:10 1000 967.4 mg/Kg 97 70 - 130 2 20 Surrogate <u>%Recovery</u> Qualifier Limits RPD Inits RPD 100 20 Gasoline Range Organics (Over C10-C28) 1000 1193 mg/Kg 97 70 - 130 2 20 Surrogate <u>%Recover</u> Qualifier Limits Client Sample I	Analysis Batch: 3504												Prep	Batch	: 3527		
Gasoline Range Organics (CRO)-C6-C10 1000 1073 mg/kg 107 70 - 130 Diseal Range Organics (Over C10-C28) LCS LCS LCS LCS Imits 70 - 130 Surrogate %Recovery 00 1000 1174 mg/Kg 117 70 - 130 LCS LCS LCS LCS LCS LCS LCS LCS Surrogate %Recovery 00 70 - 130 TO - 130 TO - 130 TO - 130 Lab Sample ID: LCSD 880-3527/3-A Matrix: Solid Analyte Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 3504 Prep Type: Total/NA Prep Batch: 3527 Analyte Added Result Qualifier 1000 1001 967.4 mg/Kg 97 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) LCSD LCSD LCSD LCSD LCSD 20 20 Surrogate %Recovery %Recovery Qualifier Limits TO - 130 2 20 Surrogate 101 70 - 130 70 - 130 2 20 Surrogate					Spike		LCS	LCS					%Rec.				
(GRO)-C8-C10 Desel Range Organics (Over 1000 1174 mg/kg 117 70 - 130 C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 1-Chirococtane 100 70 - 130 70 - 130 Prep Prep Prep -7erphenyl 95 70 - 130 Prep Prep Prep Prep Prep Prep Prep NA Analysis Batch: 3504 Prep Batch: 3527 Prep Pipe: Total/NA Analyte Analyte Added Result Qualifier Unit D %Rec RPD Limits (GRO)-C6-C10 1000 1193 mg/Kg 119 70 - 130 2 20 C10-C28) LCSD LCSD LCSD Surrogate %Recovery Qualiffer To - 130 2 20 </td <td>Analyte</td> <td></td> <td></td> <td></td> <td>Added</td> <td> </td> <td>Result</td> <td>Qualifier</td> <td>Unit</td> <td></td> <td>D</td> <td>%Rec</td> <td>Limits</td> <td></td> <td></td>	Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits				
Diesei Range Organics (Over C10-C28) 1000 1174 mg/Kg 117 70 - 130 LCS LCS <thlcs< th=""> LCS LCS</thlcs<>					1000		1073		mg/K	3		107	70 - 130				
LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorococtane 100 70.130 c-Terphenyl 95 70.130 Lab Sample ID: LCSD 880-3527/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec. RPD Analyte Added Result Qualifier Unit D %Rec. RPD Limits GRO)-C6-C10 1000 967.4 mg/Kg 119 70.130 2 20 Clo-C28) LCSD LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorococtane 101 70.130 10 20 20 Surrogate %Recovery Qualifier Limits To.130 2 20 Surrogate %Recovery Qualifier Limits To.130 2 20 Chronoctane 101 70.130 70.130 2 20 Chethod: 300.0 - Anions, Ion	Diesel Range Organics (Over				1000		1174		mg/K	9		117	70 - 130				
1-Chloraoctane 100 70.130 o-Terphenyl 95 70.130 Lab Sample ID: LCSD 880-3527/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Analysis Batch: 3504 Analyte Spike LCSD LCSD VRec. RPD Gasoline Range Organics (GRO)-C6-C10 1000 967.4 mg/Kg 97 70.130 10 20 Surrogate %Recovery 1000 1193 mg/Kg 119 70.130 2 20 Surrogate %Recovery Qualifier Limits 70.130 2 20 Surrogate %Recovery Qualifier Limits 70.130 2 20 Surrogate %Recovery Qualifier Limits 70.130 2 20 Method: 300.0 - Anions, Ion Chromatography 70.130 70.130 70.130 2 20 Lab Sample ID: MB 880-3529/1-A MB Client Sample ID: Method Blank Prep Type: Soluble Analyte Resuit Qualifier RL Unit D Prepared Analyzed Dil Fac		LCS	LCS														
o-Terphenyl 95 70-130 Lab Sample ID: LCSD 880-3527/3-A Matrix: Solid Analysis Batch: 3504 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 3527 Analyte Gasoline Range Organics (GRO; C6-C10 Diesel Range Organics (Over C10-C28) Spike LCSD 1000 LCSD 967.4 Unit mg/Kg D %Rec 97 RPD 70-130 Limit 20 Surrogate 1-Chlorocctane 0-Terphenyl %Recovery 96 Qualifier 70-130 Limits 70-130 2 20 Method: 300.0 - Anions, Ion Chromatography gasoline Range ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 Kesut MB Limits 70-130 Client Sample ID: Method Blank Prep Type: Soluble Analyte MB <mb< td=""> Result Qualifier Result Limits 70-130 Client Sample ID: Method Blank Prep Type: Soluble</mb<>	Surrogate	%Recovery	Qua	lifier	Limits												
Lab Sample ID: LCSD 880-3527/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec. RPD Analyte Added Result Qualifier Unit D %Rec. RPD Limits Gasoline Range Organics 1000 967.4 mg/Kg 97 70-130 10 20 Diesel Range Organics (Over 1000 1193 mg/Kg 119 70-130 2 20 Surrogate %Recovery Qualifier Limits 100 100 2 20 Surrogate %Recovery Qualifier Limits 70-130 2 20 Surrogate %Recovery Qualifier Limits 70-130 2 20 Surrogate %Recovery Qualifier Limits Client Sample ID: Method Blank Prep Type: Soluble Matrix: Solid Analyte MB ME Prep Type: Soluble Prep Type: Soluble	1-Chlorooctane	100			70 - 130												
Matrix: Solid Analysis Batch: 3504 Prep Type: Total/NA Prep Batch: 3527 Analyte Spike LCSD LCSD LCSD Wrec RPD Limits RPD Gasoline Range Organics (GRQ)-C6-C10 1000 967.4 mg/Kg 97 70 - 130 10 20 Diesel Range Organics (Over C10-C28) 1000 1193 mg/Kg 119 70 - 130 2 20 Surrogate 1-Chlorooctane %Recovery 1001 Qualifier Limits 70 - 130 Client Sample ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 MB MB Kesult Unit D Prep Type: Soluble Analyte Result Qualifier Result Qualifier Limits Prep Type: Soluble	o-Terphenyl	95			70 - 130												
Matrix: Solid Analysis Batch: 3504 Prep Type: Total/NA Prep Batch: 3527 Analyte Spike LCSD LCSD LCSD Wrec RPD Limits RPD Gasoline Range Organics (GRQ)-C6-C10 1000 967.4 mg/Kg 97 70 - 130 10 20 Diesel Range Organics (Over C10-C28) 1000 1193 mg/Kg 119 70 - 130 2 20 Surrogate 1-Chlorooctane %Recovery 1001 Qualifier Limits 70 - 130 Client Sample ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 MB MB Kesult Unit D Prep Type: Soluble Analyte Result Qualifier Result Qualifier Limits Prep Type: Soluble																	
Analysis Batch: 3504 Prep Batch: 3527 Analyte Spike LCSD LCSD VRec. RPD Analyte Added Result Qualifier Unit D %Rec. RPD Gasoline Range Organics 1000 967.4 mg/Kg 97 70.130 10 20 (GRO)-C6-C10 000 1193 mg/Kg 119 70.130 2 20 Diesel Range Organics (Over 1000 1193 mg/Kg 119 70.130 2 20 C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 100 2 20 Surrogate %Recovery Qualifier Limits 70.130 2 20 O-Terphenyl 96 70.130	Lab Sample ID: LCSD 880-3527	// 3-A							0	Client	Sam	ple ID: L					
Analyte Added Result Qualifier Unit D %Rec. RPD Limits Gasoline Range Organics 1000 967.4 mg/Kg 97 70 - 130 10 20 (GRO)-C6-C10 1000 1193 mg/Kg 119 70 - 130 2 20 Diesel Range Organics (Over 1000 1193 mg/Kg 119 70 - 130 2 20 C10-C28) LCSD LCSD LCSD Sample ID: Mg 880-3529/1-A Method: 300.0 - Anions, Ion Chromatography Lab Sample ID: MB 880-3529/1-A MB MB MB Kesult Qualifier Result Qualifier Result Prep Type: Soluble Analyte Result Qualifier Result Qualifier Result Dil Fac	Matrix: Solid													-			
Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics (GRO)-C6-C10 1000 967.4 mg/Kg 19 70 - 130 10 20 Diesel Range Organics (Over C10-C28) 1000 1193 mg/Kg 119 70 - 130 2 20 Surrogate 1-Chlorocctane o-Terphenyl %Recovery 96 Qualifier Limits 70 - 130 Client Sample ID: Method Blank Prep Type: Soluble Lab Sample ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Analysis Batch: 3504												Prep	Batch	: 3527		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over 1000 967.4 mg/Kg 97 70 - 130 10 20 Diesel Range Organics (Over C10-C28) 1000 1193 mg/Kg 119 70 - 130 2 20 Surrogate 1-Chlorooctane %Recovery 101 Qualifier 70 - 130 Limits 70 - 130 o-Terphenyl 96 70 - 130 2 20 Method: 300.0 - Anions, lon Chromatography Client Sample ID: Method Blank Prep Type: Soluble Lab Sample ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac					-		LCSD	LCSD					%Rec.		RPD		
(GRO)-C6-C10 Diesel Range Organics (Over 1000 1193 mg/Kg 119 70 - 130 2 20 C10-C28) LCSD LCSD LCSD Imits 101 70 - 130 2 20 Surrogate %Recovery Qualifier Limits 101 70 - 130 2 20 O-Terphenyl 96 70 - 130 70 - 130 2 20 20 Method: 300.0 - Anions, Ion Chromatography 100 101 70 - 130 2 20 Lab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Prep Type: Soluble Prep Type: Soluble 20 20 Analysis Batch: 3607 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac								Qualifier	Unit		_ <u>D</u>						
Diesel Range Organics (Over C10-C28) 1000 1193 mg/Kg 119 70 - 130 2 20 Surrogate Kecovery Qualifier Limits 101 70 - 130 2 20 Surrogate %Recovery Qualifier Limits 100 101 70 - 130 2 20 o-Terphenyl 96 70 - 130 70 - 130 2 20 20 Method: 300.0 - Anions, lon Chromatography 96 70 - 130 2 20 20 Lab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble 20 Analysis Batch: 3607 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac					1000		967.4		mg/K	9		97	70 - 130	10	20		
C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 96 70 - 130 Method: 300.0 - Anions, lon Chromatography Eab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Prep Type: Soluble Matrix: Solid MB MB Prep Type: Soluble Analysis Batch: 3607 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac	· · · ·				1000		1102		malk	~		110	70 120	2	20		
LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70-130 o-Terphenyl 96 70-130 Method: 300.0 - Anions, lon Chromatography Lab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Prep Type: Soluble Matrix: Solid Matrix: Solid Prep Type: Soluble Prep Type: Soluble Analysis Batch: 3607 MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac					1000		1193		iiig/K	9		119	70 - 130	2	20		
Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 96 70 - 130 Method: 300.0 - Anions, lon Chromatography Client Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Prep Type: Soluble Analysis Batch: 3607 MB MB ME Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	010 020																
I-Chlorooctane 101 70.130 o-Terphenyl 96 70.130 Method: 300.0 - Anions, lon Chromatography																	
o-Terphenyl 96 70.130 o-Terphenyl 96 70.130 Method: 300.0 - Anions, Ion Chromatography Client Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Prep Type: Soluble Lab Sample ID: MB 880-3529/1-A MB MB Prep Type: Soluble Analysis Batch: 3607 MB MB Prep Type: Soluble			Qua	lifier													
Method: 300.0 - Anions, Ion Chromatography Lab Sample ID: MB 880-3529/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble Analysis Batch: 3607 MB Matrix Result Qualifier RL Unit D Prepared Analyzed Dil Fac																	
Lab Sample ID: MB 880-3529/1-A Matrix: Solid Analysis Batch: 3607 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	o-Terphenyl	96			70 - 130												
Matrix: Solid Prep Type: Soluble Analysis Batch: 3607 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Method: 300.0 - Anions, Ior	h Chromato	ogr	aphy													
Analysis Batch: 3607 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Lab Sample ID: MB 880-3529/1	-A										Client Sa	mple ID: N	lethod	Blank		
Analysis Batch: 3607 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Matrix: Solid												Prep T	ype: S	oluble		
MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac	Analysis Batch: 3607												-				
	-		ΜВ	МВ													
Chloride <5.00 U 5.00 mg/Kg 05/28/21 10:59 1	Analyte	Re	sult	Qualifier	I	RL		Uni	t	D	Р	repared	Analyze	d	Dil Fac		
	Chloride		5.00	U	5.	.00		mg.	Kg				05/28/21 10	0:59	1		

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Job ID: 890-727-1 SDG: TE012921046

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H Job ID: 890-727-1 SDG: TE012921046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3529/2-A Matrix: Solid Analysis Batch: 3607					Client	t Sample	ID: Lab C Prep	ontrol S Type: S	
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	243.8		mg/Kg		98	90 - 110		
Lab Sample ID: LCSD 880-3529/3-A				Clie	nt San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								Type: S	
Analysis Batch: 3607									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	243.7		mg/Kg		97	90 _ 110	0	20

QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

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Job ID: 890-727-1 SDG: TE012921046

GC VOA

Prep Batch: 3520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Total/NA	Solid	5035	
890-727-2	BH02	Total/NA	Solid	5035	
890-727-3	BH03	Total/NA	Solid	5035	
890-727-4	BH04	Total/NA	Solid	5035	
MB 880-3520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-3520/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 3530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Total/NA	Solid	8021B	3520
890-727-2	BH02	Total/NA	Solid	8021B	3520
890-727-3	BH03	Total/NA	Solid	8021B	3520
890-727-4	BH04	Total/NA	Solid	8021B	3520
MB 880-3520/5-A	Method Blank	Total/NA	Solid	8021B	3520
LCS 880-3520/1-A	Lab Control Sample	Total/NA	Solid	8021B	3520
LCS 880-3520/2-A	Lab Control Sample	Total/NA	Solid	8021B	3520

GC Semi VOA

Analysis Batch: 3504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Total/NA	Solid	8015B NM	3527
890-727-2	BH02	Total/NA	Solid	8015B NM	3527
890-727-3	BH03	Total/NA	Solid	8015B NM	3527
890-727-4	BH04	Total/NA	Solid	8015B NM	3527
MB 880-3527/1-A	Method Blank	Total/NA	Solid	8015B NM	3527
LCS 880-3527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3527
LCSD 880-3527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3527

Prep Batch: 3527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Total/NA	Solid	8015NM Prep	
890-727-2	BH02	Total/NA	Solid	8015NM Prep	
890-727-3	BH03	Total/NA	Solid	8015NM Prep	
890-727-4	BH04	Total/NA	Solid	8015NM Prep	
MB 880-3527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 3529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Soluble	Solid	DI Leach	
890-727-2	BH02	Soluble	Solid	DI Leach	
890-727-3	BH03	Soluble	Solid	DI Leach	
890-727-4	BH04	Soluble	Solid	DI Leach	
MB 880-3529/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H Job ID: 890-727-1 SDG: TE012921046

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HPLC/IC

Analysis Batch: 3607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-727-1	BH01	Soluble	Solid	300.0	3529
890-727-2	BH02	Soluble	Solid	300.0	3529
890-727-3	BH03	Soluble	Solid	300.0	3529
890-727-4	BH04	Soluble	Solid	300.0	3529
MB 880-3529/1-A	Method Blank	Soluble	Solid	300.0	3529
LCS 880-3529/2-A	Lab Control Sample	Soluble	Solid	300.0	3529
LCSD 880-3529/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3529

Job ID: 890-727-1

Matrix: Solid

Matrix: Solid

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SDG: TE012921046

Lab Sample ID: 890-727-1

Lab Sample ID: 890-727-2

Lab Chronicle

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Client Sample ID: BH01

Date Collected: 05/24/21 13:45 Date Received: 05/25/21 12:32

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/27/21 00:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 19:33	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 11:58	SC	XEN MID

Client Sample ID: BH02

Date Collected: 05/24/21 14:10 Date Received: 05/25/21 12:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/27/21 00:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 19:55	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 12:03	SC	XEN MID

Client Sample ID: BH03

Date Collected: 05/24/21 14:32

Date Received: 05/25/21 12:32

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/27/21 00:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 20:16	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 12:08	SC	XEN MID

Client Sample ID: BH04 Date Collected: 05/24/21 15:04 Date Received: 05/25/21 12:32

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3520	05/26/21 12:00	MR	XEN MID
Total/NA	Analysis	8021B		1	3530	05/27/21 01:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			3527	05/26/21 10:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1	3504	05/26/21 20:37	AJ	XEN MID
Soluble	Leach	DI Leach			3529	05/26/21 10:59	СН	XEN MID
Soluble	Analysis	300.0		1	3607	05/28/21 12:13	SC	XEN MID

Laboratory References:

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

Lab Sample ID: 890-727-3 Matrix: Solid

Lab Sample ID: 890-727-4

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Laboratory: Eurofins Xenco, Midland

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

uthority	P	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, b	ut the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for w
the agency does not o Analysis Method		Matrix	Analyte	
the agency does not o Analysis Method 8015B NM	ffer certification Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

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Job ID: 890-727-1

SDG: TE012921046

Method Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H SDG: TE012921046

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 890-727-1

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11
13

Job ID: 890-727-1 SDG: TE012921046

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-727-1	BH01	Solid	05/24/21 13:45	05/25/21 12:32	- 1	
90-727-2	BH02	Solid	05/24/21 14:10	05/25/21 12:32	- 1	
90-727-3	BH03	Solid	05/24/21 14:32	05/25/21 12:32	- 1	Ę
90-727-4	BH04	Solid	05/24/21 15:04	05/25/21 12:32	- 1	
						1

3				Houston,]	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX		nain as, TX (21	of C	Chain of Custody Dallas,TX (214) 902-0300 San Antonio.	itonio, TX ((210) 509-3334	34		Wo	rk Ora	Work Order No:
LAE	BORATORIES	U L	Hobbs,N	Midland,	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 (8	5440) EL (,AZ (480-	Paso,TX -355-090	(915)585 0) Atlanta	5-3443 Lub 1,GA (770-4		306)794-1296 Tampa,FL (813-620-2000)	5 313-620-2	000)	WW	www.xenco.com	9.CC
Project Manager:	Dan Moir				Bill to: (if different)	int)	Kyle Littrell	e							Work Order Comments	rde
	WSP Permian office	ê			Company Name		XTO Energy	ergy				Pro	Program: UST/PST			□rownfields
	3300 North A Street	et		/	Address:		3104 e G	3104 e Green Street	eet			L	State of Project:	oject:		
te ZIP:	Midland, Tx 79705			0	City, State ZIP:		Carlsbad	Carlsbad, NM, 88220	1220			Re	Reporting:Level II		Level III	TSU/TE
	(432) 236-3849			Email: E	Email: Elliot.Lee@wsp.com, Tacoma.Morrissey@wsp.com	sp.com,	Tacoma	.Morriss	ey@wsp.c	om			Deliverables: EDD	EDD		ADaPT
Project Name:	PLU 13	PLU 13 DTD 108H	H8(Tur	Turn Around	\setminus				ANAL	LYSIS REQUEST	DUEST				1
Project Number:	TEO1	TE012921046	σ	Routine	e											
P.O. Number:				Rush:												
Sampler's Name:	EII	Elliot Lee		Due Date:	ate:				_	_	_	_			-	-
SAMPLE RECEIPT	IPT Temp Blank		Yes No	Wet Ice: Yes	Yes No		_									+
Temperature (°C):	4.0/3	ÓÀ	Th	Thermometer ID	D	ners	_)								-
Received Intact:	(Yés) No	0	-ZV	VILLO	FC	ntai			_							
Cooler Custody Seals:	Yes (No	N/A	Correct	Correction Factor:	10.2	f Co	_	_		Im	890-727 Chain of Custody	nain of C	ustody			
	MAN Sal	N/A	Iolai	rotal Colitaniers.		ber		-							_	_
Sample Identification		Matrix s	Date Sampled	Time Sampled	Depth	Numb	TPH (E	BTEX (1
BH01	-	S 5/	5/24/2021	13:45	1	-1		××		-				-	+-	1
BH02	2	S 5/	5/24/2021	14:10	-		×	××		-	-	\vdash	-	-	-	\uparrow
BH03	3	S 5/	5/24/2021	14:32	-		×	××		-		-	-	-	\vdash	1
BH04		S 5/	5/24/2021	15:04	-		×	×		_		_				-
		+ + +						+						++-		
										_						
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0: be analy	zed T	8RCRA 13PPM Te TCLP / SPLP 6010:	PM Texas 11	(as 11 Al 8RCRA S	Sb As Sb As	Ba Be Ba Be	B Cd C	Ca Cr C Co Cu F	Co Cu Fe Pb Mn Mo	Fe Pb Mg Mo Ni Se	g Mn Mo a Ag TL U	Ni K Se	l ú	SiO2
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ocument and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the r rgy of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed.	ment of sau f samples a lied to eac	nples constitu Ind shall not a h project and	ıtes a valid pur ıssume any res a charge of \$5	chase order fro ponsibility for a for each sample	om client c any losses e submitte	ompany 1 s or exper ad to Xeno	o Xenco, it nses incurr co, but not	ts affiliates a red by the cl analyzed. T	nd subcon ent if such hese terms	tractors. It as losses are du will be enfor	ssigns sta ue to circu ced unless	ndard terms mstances be previously n	and conditi yond the co legotiated.	introl	
Relinquished by/	8		eceived by	Received by: (Signature)	e)		Date/Time	me	Rel	inquishe	Relinquished by: (Signature)	nature)		Received by: (Signature)	d by: (S	igna
, WWW/M/		(LLA	Ch	A		0.2	3:2	1230	<u> </u>				+			
5									<u>σ</u>							



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13

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 727 List Number: 1 Creator: Clifton, Cloe

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

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Job Number: 890-727-1

SDG Number: TE012921046

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 727 List Number: 2 Creator: Copeland, Tatiana

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	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-727-1 SDG Number: TE012921046

List Source: Eurofins Xenco, Midland List Creation: 05/26/21 11:26 AM

Received by OCD: 6/29/2021 10:28:33 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-798-1

Laboratory Sample Delivery Group: TE012921046 Client Project/Site: PLU 13 DTD 108H

For:

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

Attn: Tacoma Morrissey

RAMER

Authorized for release by: 6/14/2021 4:07:41 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.

LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/27/2021 2:15:38 PM

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	Definitions/Glasson/		
	Definitions/Glossary		
Client: WSP US		Job ID: 890-798-1	
Project/Site: PL	U 13 DTD 108H	SDG: TE012921046	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			ļ
Qualifier	Qualifier Description		
*_	LCS and/or LCSD is outside acceptance limits, low biased.		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
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)		4
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		

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

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

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

ML

MPN

MQL NC

ND

NEG

POS

PQL PRES

QC

RER

RPD

TEF

TEQ

TNTC

RL

Job ID: 890-798-1 SDG: TE012921046

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Job ID: 890-798-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-798-1

Receipt

The samples were received on 6/11/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: FS01 (890-798-1), FS02 (890-798-2), PH01 (890-798-3) and PH01A (890-798-4).

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.

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Client Sample Results

Job ID: 890-798-1 SDG: TE012921046

Lab Sample ID: 890-798-1 Matrix: Solid

Client Sample ID: FS01
Date Collected: 06/09/21 12:40
Date Received: 06/11/21 09:45
Sample Depth: - 1.5

Project/Site: PLU 13 DTD 108H

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			06/12/21 11:30	06/12/21 21:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130			06/12/21 11:30	06/12/21 21:32	1

Analyte	Result	Quaimer	RL	Onit	U	Flepaleu	Analyzeu	DirFac	
Gasoline Range Organics	<49.7	U F1 *-	49.7	mg/Kg		06/13/21 10:54	06/14/21 00:25	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U F1 *-	49.7	mg/Kg		06/13/21 10:54	06/14/21 00:25	1	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/13/21 10:54	06/14/21 00:25	1	
Total TPH	<49.7	U F1	49.7	mg/Kg		06/13/21 10:54	06/14/21 00:25	1	
Surrogate	%Recoverv	Qualifier	Limits			Prepared	Analvzed	Dil Fac	

Sunoyale	Mecovery Quan	ei Liinits	Fiepaieu	Analyzeu	DiiFac
1-Chlorooctane	82	70 - 130	06/13/21 10:54	06/14/21 00:25	1
o-Terphenyl	75	70 - 130	06/13/21 10:54	06/14/21 00:25	1
Method: 300.0 - Anions Jon Chrom	atography - Solub	10			

wethou: 500.0 - Anions, ion Chron	natograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4	4.99	mg/Kg			06/14/21 11:41	1

Client Sample ID: FS02 Date Collected: 06/09/21 12:42 Date Received: 06/11/21 09:45

Sample Depth: - 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		06/12/21 11:30	06/12/21 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			06/12/21 11:30	06/12/21 21:52	1
1,4-Difluorobenzene (Surr)	91		70 - 130			06/12/21 11:30	06/12/21 21:52	1

Lab Sample ID: 890-798-2

Matrix: Solid

Job ID: 890-798-1 SDG: TE012921046

Matrix: Solid

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13

1

Lab Sample ID: 890-798-2

Lab Sample ID: 890-798-3

06/12/21 11:30 06/12/21 22:13

Matrix: Solid

Client Sample ID: FS02

Project/Site: PLU 13 DTD 108H

Date Collected: 06/09/21 12:42 Date Received: 06/11/21 09:45

Sample Depth: - 1.5

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *-	49.9	mg/Kg		06/13/21 10:54	06/14/21 01:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U *-	49.9	mg/Kg		06/13/21 10:54	06/14/21 01:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/21 10:54	06/14/21 01:28	1
Total TPH	<49.9	U	49.9	mg/Kg		06/13/21 10:54	06/14/21 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			06/13/21 10:54	06/14/21 01:28	1
o-Terphenyl	73		70 - 130			06/13/21 10:54	06/14/21 01:28	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8	5.02	mg/Kg			06/14/21 12:58	1

Client Sample ID: PH01

Date Collected: 06/09/21 10:59 Date Received: 06/11/21 09:45 Sample Depth: - 2

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		06/12/21 11:30	06/12/21 22:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			06/12/21 11:30	06/12/21 22:13	1

70 - 130

89

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *-	50.0	mg/Kg		06/13/21 10:54	06/14/21 01:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	83.5	*_	50.0	mg/Kg		06/13/21 10:54	06/14/21 01:48	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/21 10:54	06/14/21 01:48	1
Total TPH	83.5		50.0	mg/Kg		06/13/21 10:54	06/14/21 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			06/13/21 10:54	06/14/21 01:48	1
o-Terphenyl	74		70 - 130			06/13/21 10:54	06/14/21 01:48	1
 Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.98	mg/Kg			06/14/21 12:03	1

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Job ID: 890-798-1 SDG: TE012921046

Lab Sample ID: 890-798-4

Matrix: Solid

Date Collected: 06/09/21 12:15 Date Received: 06/11/21 09:45 Sample Depth: - 4

Client Sample ID: PH01A

Project/Site: PLU 13 DTD 108H

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		06/12/21 11:30	06/12/21 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			06/12/21 11:30	06/12/21 22:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130			06/12/21 11:30	06/12/21 22:33	1
Method: 8015B NM - Diesel Rang								
Method: 2045D NM Discol Days								
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 06/13/21 10:54	Analyzed 06/14/21 02:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U *-	49.8	mg/Kg	D	06/13/21 10:54	06/14/21 02:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *-			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U *- *-	49.8	mg/Kg	<u>D</u>	06/13/21 10:54	06/14/21 02:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U *- *-	49.8	mg/Kg	<u>D</u>	06/13/21 10:54 06/13/21 10:54	06/14/21 02:09 06/14/21 02:09	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 61.3 <49.8	Qualifier U *- *- U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u> </u>	06/13/21 10:54 06/13/21 10:54 06/13/21 10:54	06/14/21 02:09 06/14/21 02:09 06/14/21 02:09	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 61.3 <49.8 61.3	Qualifier U *- *- U	49.8 49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u> </u>	06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 06/13/21 10:54	06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09	1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 61.3 <49.8 61.3 61.3 %Recovery	Qualifier U *- *- U	49.8 49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	D	06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 Prepared	06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 Analyzed	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U *- *- Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u> </u>	06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 Prepared 06/13/21 10:54	06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 <u>Analyzed</u> 06/14/21 02:09	1 1 1 1 1 Dil Fac 1
	Result <49.8	Qualifier U *- *- Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 06/13/21 10:54 Prepared 06/13/21 10:54	06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 06/14/21 02:09 <u>Analyzed</u> 06/14/21 02:09	1 1 1 1 1 Dil Fac 1

Job ID: 890-798-1

Prep Type: Total/NA

Prep Type: Total/NA

12 13

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-798-1	FS01	93	93		
890-798-2	FS02	93	91		6
890-798-3	PH01	96	89		
890-798-4	PH01A	89	98		
LCS 880-4041/1-A	Lab Control Sample	115	104		
LCSD 880-4041/2-A	Lab Control Sample Dup	115	104		8
MB 880-4041/5-A	Method Blank	90	92		
Surrogate Legend					9
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

—				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-798-1	FS01	82	75	
890-798-1 MS	FS01	85	70	
890-798-1 MSD	FS01	87	71	
890-798-2	FS02	80	73	
890-798-3	PH01	82	74	
890-798-4	PH01A	82	75	
LCS 880-4071/2-A	Lab Control Sample	94	79	
LCSD 880-4071/3-A	Lab Control Sample Dup	89	78	
MB 880-4071/1-A	Method Blank	88	80	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4041/5-A		
Matrix: Solid		
Analysis Batch: 4044		
	MB	МВ

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		06/12/21 11:30	06/12/21 19:49	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			06/12/21 11:30	06/12/21 19:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130			06/12/21 11:30	06/12/21 19:49	1

Lab Sample ID: LCS 880-4041/1-A Matrix: Solid

Analysis Batch: 4044

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	
Toluene	0.100	0.09649		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2175		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

104

Lab Sample ID: LCSD 880-4041/2-A Matrix: Solid

Matrix: Solid Analysis Batch: 4044							Prep Type Prep Ba				: Total/NA atch: 4041
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09597		mg/Kg		96	70 - 130	5	35
Toluene			0.100	0.09182		mg/Kg		92	70 - 130	5	35
Ethylbenzene			0.100	0.09593		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2070		mg/Kg		104	70 - 130	5	35
o-Xylene			0.100	0.1044		mg/Kg		104	70 - 130	5	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								

70 - 130

Prep Type: Total/NA Prep Batch: 4041

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 4041

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

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

Lab Sample ID: MB 880-4071/1	- A										Client Sa	mple ID:	Method	Blank
Matrix: Solid												-		otal/NA
Analysis Batch: 4067													p Batc	
Analysis Baton. 4007		мв	мв										p Duto	
Analyte	R		Qualifier	F	RL		Unit		D	Р	repared	Analy	zed	Dil Fac
Gasoline Range Organics		<50.0			0.0		mg/Kg		_		3/21 10:54	06/13/21		1
(GRO)-C6-C10		-00.0	0				ing/itg			00,1	0/21 10:01	00/10/21	20.20	·
Diesel Range Organics (Over	<	<50.0	U	50).0		mg/Kg	I		06/1	3/21 10:54	06/13/21	23:23	1
C10-C28)														
Oll Range Organics (Over C28-C36)	<	\$50.0	U	50).0		mg/Kg			06/1	3/21 10:54	06/13/21	23:23	1
Total TPH	<	\$50.0	U	50).0		mg/Kg	l		06/1	3/21 10:54	06/13/21	23:23	1
		ΜВ	MB											
Surrogate	%Reco			Limits						P	repared	Analy	zod	Dil Fac
1-Chlorooctane		88	quanter	70 - 130)						3/21 10:54	06/13/21		1
o-Terphenyl		80		70 - 130							3/21 10:54	06/13/21		1
												00,10,21	20.20	·
Lab Sample ID: LCS 880-4071/2	2-A								С	lient	Sample I	D: Lab C	ontrol	Sample
Matrix: Solid											- C.			otal/NA
Analysis Batch: 4067														h: 4071
-				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Quali	fier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000000	930.4	*_		mg/Kg			0.09	70 - 130		
(GRO)-C6-C10														
Diesel Range Organics (Over				1000000	996.5	*-		mg/Kg			0.1	70 - 130		
C10-C28)														
	LCS	LCS	;											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	94			70 - 130										
o-Terphenyl	79			70 - 130										
Lab Sample ID: LCSD 880-4071	I/3-A							Cli	ent	Sam	ple ID: La	ab Contro	ol Samp	ole Dup
Matrix: Solid												Prep [·]	Type: To	otal/NA
Analysis Batch: 4067												Pre	p Batc	h: 4071
				Spike	LCSD	LCSE)					%Rec.		RPD
Analyte				Added	Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1000000	904.4	*-		mg/Kg			0.09	70 - 130	3	20
(GRO)-C6-C10														
Diesel Range Organics (Over C10-C28)				1000000	1004	*-		mg/Kg			0.1	70 - 130	1	20
010-028)														
	LCSD	LCS	D											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	89			70 - 130										
o-Terphenyl	78			70 - 130										
Γ														
Lab Sample ID: 890-798-1 MS												Client Sa	-	
Matrix: Solid														otal/NA
Analysis Batch: 4067		_											p Batc	h: 4071
	Sample		-	Spike		MS	-			_	~	%Rec.		
Analyte	Result			Added	Result		fier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics	<49.7	U F1	*-	999000	930.7	F1		mg/Kg			0.09	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over	<49.7		1 *-	999000	948.4	F1		mg/Kg			0.09	70 ₋ 130		
C10-C28)	~4 3.7	011	. =	333000	340.4			myny			0.08	10 - 130		
,														

5

Job ID: 890-798-1

SDG: TE012921046

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

Lab Sample ID: 890-798-1 MS	
Matrix: Solid	
Analysis Batch: 4067	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 890-798-1 MSD Matrix: Solid Analysis Batch: 4067

Analysis Batch: 4067									Pre	p Batch	: 4071
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1 *-	997000	949.4	F1	mg/Kg		0.1	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U F1 *-	997000	972.0	F1	mg/Kg		0.09	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	71		70 - 130								

Method: 300.0 - Anions, Ion C	hromat	togr	aphy											
Lab Sample ID: MB 880-4076/1-A											Client S	Sample ID:	Method	Blank
Matrix: Solid													Type: S	
Analysis Batch: 4082														
		МВ	МВ											
Analyte	R	esult	Qualifier		RL		Unit		D	Р	repared	Analyz	zed	Dil Fac
Chloride		<5.00	U		5.00		mg/Kg	3				06/14/21	11:25	1
Lab Sample ID: LCS 880-4076/2-A									Clie	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 4082														
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		244.4		mg/Kg		_	98	90 - 110		
Lab Sample ID: LCSD 880-4076/3-/	A							CI	ient S	am	ple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 4082														
_				Spike		LCSD	LCSD					%Rec.		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		244.2		mg/Kg		_	98	90 - 110	0	20
Lab Sample ID: 890-798-1 MS												Client Sa	mple ID	: FS01
Matrix: Solid													Type: S	
Analysis Batch: 4082														
-	Sample	Sam	ple	Spike		MS	MS					%Rec.		
Analyte	Result	Qua	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	71.4			250		326.9		mg/Kg		_	102	90 - 110		

Job ID: 890-798-1 SDG: TE012921046

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 4071

Client Sample ID: FS01

Prep Type: Total/NA

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6/14/2021

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-798-1 SDG: TE012921046

Method: 300.0 - Anions, Ion Chromatography (Continued)

ab Sample ID: 890-798-1 MSE latrix: Solid)								Client Sar Prep	nple ID: Type: So		
nalysis Batch: 4082	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
nalyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
nloride	71.4		250	320.5		mg/Kg		100	90 - 110	2	20	
												Ī
												j

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-798-1 SDG: TE012921046

GC VOA

Prep Batch: 4041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-798-1	FS01	Total/NA	Solid	5035	
890-798-2	FS02	Total/NA	Solid	5035	
890-798-3	PH01	Total/NA	Solid	5035	
890-798-4	PH01A	Total/NA	Solid	5035	
MB 880-4041/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-4041/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-4041/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 4044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-798-1	FS01	Total/NA	Solid	8021B	4041
890-798-2	FS02	Total/NA	Solid	8021B	4041
890-798-3	PH01	Total/NA	Solid	8021B	4041
890-798-4	PH01A	Total/NA	Solid	8021B	4041
MB 880-4041/5-A	Method Blank	Total/NA	Solid	8021B	4041
LCS 880-4041/1-A	Lab Control Sample	Total/NA	Solid	8021B	4041
LCSD 880-4041/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	4041

GC Semi VOA

Analysis Batch: 4067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-798-1	FS01	Total/NA	Solid	8015B NM	4071
890-798-2	FS02	Total/NA	Solid	8015B NM	4071
890-798-3	PH01	Total/NA	Solid	8015B NM	4071
890-798-4	PH01A	Total/NA	Solid	8015B NM	4071
MB 880-4071/1-A	Method Blank	Total/NA	Solid	8015B NM	4071
LCS 880-4071/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	4071
LCSD 880-4071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	4071
890-798-1 MS	FS01	Total/NA	Solid	8015B NM	4071
890-798-1 MSD	FS01	Total/NA	Solid	8015B NM	4071

Prep Batch: 4071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-798-1	FS01	Total/NA	Solid	8015NM Prep	
890-798-2	FS02	Total/NA	Solid	8015NM Prep	
890-798-3	PH01	Total/NA	Solid	8015NM Prep	
890-798-4	PH01A	Total/NA	Solid	8015NM Prep	
MB 880-4071/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-4071/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-4071/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-798-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-798-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 4076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	ı
890-798-1	FS01	Soluble	Solid	DI Leach	-
890-798-2	FS02	Soluble	Solid	DI Leach	
890-798-3	PH01	Soluble	Solid	DI Leach	
890-798-4	PH01A	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

HPLC/IC (Continued)

Leach Batch: 4076 (Continued)

each Batch: 4076 (Co	ontinued)				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4076/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-4076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-4076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-798-1 MS	FS01	Soluble	Solid	DI Leach	
390-798-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 4082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	8
890-798-1	FS01	Soluble	Solid	300.0	4076	
890-798-2	FS02	Soluble	Solid	300.0	4076	9
890-798-3	PH01	Soluble	Solid	300.0	4076	
890-798-4	PH01A	Soluble	Solid	300.0	4076	
MB 880-4076/1-A	Method Blank	Soluble	Solid	300.0	4076	
LCS 880-4076/2-A	Lab Control Sample	Soluble	Solid	300.0	4076	
LCSD 880-4076/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	4076	
890-798-1 MS	FS01	Soluble	Solid	300.0	4076	
890-798-1 MSD	FS01	Soluble	Solid	300.0	4076	

Job ID: 890-798-1 SDG: TE012921046

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Lab Chronicle

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Client Sample ID: FS01

Date Collected: 06/09/21 12:40 Date Received: 06/11/21 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4041	06/12/21 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	4044	06/12/21 21:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			4071	06/13/21 10:54	AM	XEN MID
Total/NA	Analysis	8015B NM		1	4067	06/14/21 00:25	AJ	XEN MID
Soluble	Leach	DI Leach			4076	06/14/21 09:53	СН	XEN MID
Soluble	Analysis	300.0		1	4082	06/14/21 11:41	СН	XEN MID

Client Sample ID: FS02 Date Collected: 06/09/21 12:42 Date Received: 06/11/21 09:45

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4041	06/12/21 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	4044	06/12/21 21:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			4071	06/13/21 10:54	AM	XEN MID
Total/NA	Analysis	8015B NM		1	4067	06/14/21 01:28	AJ	XEN MID
Soluble	Leach	DI Leach			4076	06/14/21 09:53	СН	XEN MID
Soluble	Analysis	300.0		1	4082	06/14/21 12:58	CH	XEN MID

Client Sample ID: PH01

Date Collected: 06/09/21 10:59 Date Received: 06/11/21 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4041	06/12/21 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	4044	06/12/21 22:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			4071	06/13/21 10:54	AM	XEN MID
Total/NA	Analysis	8015B NM		1	4067	06/14/21 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			4076	06/14/21 09:53	СН	XEN MID
Soluble	Analysis	300.0		1	4082	06/14/21 12:03	CH	XEN MID

Client Sample ID: PH01A Date Collected: 06/09/21 12:15 Date Received: 06/11/21 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4041	06/12/21 11:30	KL	XEN MID
Total/NA	Analysis	8021B		1	4044	06/12/21 22:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			4071	06/13/21 10:54	AM	XEN MID
Total/NA	Analysis	8015B NM		1	4067	06/14/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			4076	06/14/21 09:53	СН	XEN MID
Soluble	Analysis	300.0		1	4082	06/14/21 12:09	СН	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Job ID: 890-798-1 SDG: TE012921046

Lab Sample ID: 890-798-1 Matrix: Solid

Lab Sample ID: 890-798-2

Lab Sample ID: 890-798-3

Lab Sample ID: 890-798-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Job ID: 890-798-1 SDG: TE012921046

Laboratory: Eurofins Xenco, Midland

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

thority	Pr	ogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-20-21	06-30-21
The following analytes	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v
the agency does not of Analysis Method		Matrix	Analyte	
the agency does not or Analysis Method 8015B NM	fer certification. Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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Method Summary

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
01 Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Job ID: 890-798-1 SDG: TE012921046

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11
13

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: PLU 13 DTD 108H

Job ID: 890-798-1 SDG: TE012921046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-798-1	FS01	Solid	06/09/21 12:40	06/11/21 09:45	- 1.5	
890-798-2	FS02	Solid	06/09/21 12:42	06/11/21 09:45	- 1.5	
890-798-3	PH01	Solid	06/09/21 10:59	06/11/21 09:45	- 2	
890-798-4	PH01A	Solid	06/09/21 12:15	06/11/21 09:45	- 4	
						1
						1
						1

Eurofins Xenco, Carlsbad

Revised Date 051418 Rev. 2018.1							C
			-	0			7 4
6/11/2/4:	N. Olm	Unina Vayers	10/11/21 009:3022	Byers	anne C		1 Jan Si
Date/Time /	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	A Received by	y: (Signature)	Relinquished by: (Signature)
	ances beyond the control viously negotlated.	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	submitted to Xenco, but not analy	sume any responsibility for ar charge of \$5 for each sample	of samples and shall not as plied to each project and a	e liable only for the cost on harge of \$75.00 will be ap	of service. Xenco will b of Xenco. A minimum c
	tors. It assigns standard terms and conditions	liates and subcontractors. It assigns standar	Signature of this document and refinquisimient or samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract	es a valid purchase order fron	ment or samples constitut	document and relinquisi	Notice: Signature of thic
Na Sr 11 Sr 0 V Zin 1634 / 245.1 / 7470 / 7471 : Hg	IIK SE AG SIOZ	B Cd Ca Cr Co Cu Fe Pb Mg Min Mo Ni Cd Cr Co Cu Pb Min Mo Ni Se Ag Ti U	I Sb As Ba Be Sb As Ba Be	BRCRA 13PPM Texas 11 A TCLP / SPLP 6010: BRCRA	œ	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) &
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¢			1 1 1 1	1215 41	*		PItoIA
				1059 2			PHOI
			- ~ ~ ~	1242 1.5			F502
lamposite			1 1 1 1	1240 1.5	5 6-9-21		FS OI
Sample Comments			Numb TPH (E BTEX (Chlorid	Time Depth Sampled	Matrix Date Sampled		Sample Identification
lab, if received by 4:30pm			PA 8	Total Containers:	N/A	als: Yes No	Sample Custody Seals
TAT starts the day receiied by the	1		015) 8021	Correction Factor: -0.2	NA Correct	Yes No	Cooler Custody Seals:
	tody	890-798 Chain of Custody	1)	M-007	No T-NM	(Yes)	Received Intact:
				Thermometer ID	The	R.	Temperature (°C):
			3	Wet Ice: (Yes) No	Temp Blank: Kes No		SAMPLE RECEIPT
100120 CAN	40			Due Date:		Travis Casey	Sampler's Name:
1001 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-			Rush: 24h/	Dialen Notes	see work order	P.O. Number:
1. I China -				Routine	0416	1201292 19416	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around	11801	PLU 13 272	Project Name:
Uther:	Deliverables: EDD	.moir@w	travis.casey@wsp.com, kalei.jennings@wsp.com, dan	Email: travis.casey		(432) 704-5178	Phone:
Ç	Reporting:Level II Level III PST/UST	Repo	P: Carlsbad, NM	City, State ZIP:	5	Midland, TX 79705	City, State ZIP:
]		<u>S</u>	3104 E Greene St.	Address:	Bldg 1, Unit 222	3300 North A St. Bldg 1, Unit 222	Address:
Is RC uperfund	_	Prog	me: XTO Energy	Company Name:	ermian office	WSP USA Inc., Permian office	Company Name:
ments	Work Order Comments		nt) Kyle Littrell	Bill to: (if different)	Morrissey	Ta comis	Project Manager:
Page 1 of 1	www.xenco.com	Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	AZ (480-355-0900) Atlanta,GA	M (575-392-7550) Phoenix	Habbs, N		
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	iouston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 Minimar TX (432, 704-5440) El Daso TX (4454585-3443 Linbook TX (8064794-1296	Houston, TX (281) 240-4			×
	Work Order No:	stody	Chain of Custody				~



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Received by OCD: 6/29/2021 10:28:33 AM

Eurofins Xenco, Carlsbad																	•		3					
1089 N Canal St. Carlshad NM 88220	0	hain o	Chain of Custody Record	ody R	eco	ď											,	eur	eurorins 🤹		Environ	ment 1	Environment Testing	
Phone 575-988-3199 Fax 575-988-3199																						2		
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer,	'M ner, Je	Jessica					0	Carrier Tracking No(s)	racking	No(s)			œ ೧	COC No 890-258 1	Ē					
	Phone:			E-Mail Jessic	E-Mail [.] essica kramer@eurofinset.com	mer@	eurof	inset.c	юm		70	State of Origin New Mexico	Drigin exico				סס	Page [.] Page 1 of 1	of 1					
Company Eurofins Xenco						itations P - Lo	Requi	Accreditations Required (See NELAP - Louisiana NEL	e note)	Texas							<u>ت</u> ∞	Job #: 890-798-1	Ľ					
Address 1211 W Florida Ave	Due Date Requested 6/14/2021	٩			Π				Analy	nalvsis Requested	Regu	este	<u></u>					reserv	Preservation Codes	odes				
City Midland	TAT Requested (days)	ys)				<u>uddadr</u>		\neg	-				- '	1		ç)	NaOH				ਿ		
State, Zip TX, 79701						ddillandar da da											moc		Acid 04	οσα	AsNaO2 Na2O4S Na2SO3	2 8 8		
Phone 432-704-5440(Tel)	PO #) 	TPH	de										¥ ۳۵۳			רגיט⊦	1	203 4		
Email	WO #				AP. ACC	20495.96Pp.	Chlori									PT 17 22 - 201	ille <i>stenanen</i>		ce DI Water	< ⊂ -		Acetone MCAA	iyulate	
Project Name: PLU 13 DTD 108H	Project #: 89000004				2000-000000	(1996) 5 5 5 6 199	EACH	EX									tainer ┌──	EDTA		N≶		pH 4-5 other (specify)	-	
Sile	SSOW#:				007101506003020	99910-2016-74	BD/DI_I	Calc B									1012/1832/0	Other [.]						
			Sample Tvpe	Matrix (^{W=water}	iltered m MS/N	DD_NM/	RGFM_2	5035FP_								200 64300 V	lumber							
Sample Identification - Client ID (I ab ID)	Samnle Date	Sample	-	S=solid, O=waste/oil,	9.40 500 30	dilla da da	00_OF	021B/									otal N	,			:			
	M	X	Preservation Code:	tion Code:	"012067" - FT	6-6 9	3	8							and and		X	.	opecial IIISU actions/Note				ē	and a
FS01 (890-798-1)	6/9/21	12 40 Mountain		Solid		×	×	×													1. 1. Units 1.22	1000 March 1000		
FS02 (890-798-2)	6/9/21	12 42 Mountain		Solid		×	×	×									(ي د ينې محمد محمد							
PH01 (890-798-3)	6/9/21	10 59 Mountain		Solid		×	×	×									, 19 19							
PH01A (690-798-4)	6/9/21	12 15 Mountain		Solid		×	×	×			ļ) يکن سند							L.,
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/bests/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.	vaces the ownership eing analyzed the signed Chain of the signed C	of method a amples must of Custody att	nalyte & accredi be shipped back lesting to said co	tation complia to the Eurofii mplicance to	nce upo 1s Xenco Eurofins	n out s o LLC la s Xencc	aborato LLC	ract lab	oratorie her inst	s. This uctions	sample will be	t shipm provid	entis f ed An	orward y chan	ed und ges to	ter cha accrei	ain-of- ditatio	custody ו status	If the k should b	aborato >e brou	iry does ght to E	not cur urofins	rently Xenco	
Possible Hazard Identification					Sa	Dimple R	Disp eturn	ple Disposal (A f Return To Client	A fee ent	may.	be as	assessed if san Disnosal By Lah	id if s	ampl ah	es ar	∐e ret	aine	tained long Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than Beturn To Client Disposal Ry Lab Archive For		month)	50		
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank		2		с С	oecial	Instru	Special Instructions/		2C Requirements	ment	"	ŀ								ſ			
Empty Kit Relinquished by		Date			Time					2		M	ethod o	Method of Shipment:	nent:									
Relinquished by Ove Cut to . IV. A	Date/Time:		0	Company		Rece	Hed by	57	\mathcal{N}		\mathcal{N}	\mathcal{N}		Date	Date/Time	5	\geq	<u> </u>	N)Q	۶	Company			1
Relinquished by	Date/Time:			Company		Rece	Received by	6	13	0		Y	Î	Date	Date/Time:	ł		+	ļ	-0	dompany			
Relinquished by	Date/Time:			Company		Rece	Received by					f		Date	Date/Time					- 0	Company			
Custody Seals Intact Custody Seal No ∆ Yes ∆ No						Cool	er Tem	Cooler Temperature	0° (s)	and Other Remarks	ier Ren	larks												

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Ver 11/01/2020

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Eurofins Xenco, Carlsbad

12 13

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 798 List Number: 1 Creator: Clifton, Cloe

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

True

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-798-1

SDG Number: TE012921046

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 798 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-798-1

SDG Number: TE012921046

List Source: Eurofins Xenco, Midland

List Creation: 06/12/21 04:19 PM

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

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	34232
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condi	ndition	Condition Date
rhamlet We ha	have received your closure report and final C-141 for Incident #NAPP2110460622 PLU 13 DTD 108H, thank you. This closure is approved.	8/27/2021

CONDITIONS

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Action 34232