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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2125143187
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				_	OGRID 5380		
Contact Name Shelby Pennington				Contact Te	Contact Telephone 281-723-9353		
Contact ema	il shelby.pen	nington@exxonm	obil.com	Incident #	(assigned by OCD)		
Contact mail	ing address	6401 Holiday Hill	Rd Bldg 5, Midlar	nd, Texas, 79707			
			Location	of Release So	ource		
Latitude 32.1	10211			Longitude	Longitude -103.82885		
			(NAD 83 in dec	cimal degrees to 5 decim	mal places)	_	
Site Name	PLU 25 BD	127H		Site Type P	Production Well		
Date Release				API# (if app	plicable)		
Unit Letter	Section	Township	Range	Coun	nty		
Н	25	25S	30E	Eddy	dy		
G 6 0			" 1				
Surface Owner	Surface Owner: State Federal Tribal Private (Name:)						
			Nature and	l Volume of F	Release		
	Motorio	1(s) Palancad (Salant al	I that apply and attach	aslaulations or specific	c justification for the volumes provided below)		
Crude Oil		Volume Release		calculations of specific	Volume Recovered (bbls)		
× Produced	Water	Volume Release	d (bbls) 15.0	0	Volume Recovered (bbls) 5.0		
		Is the concentrat	ion of total dissolv		Yes No		
		•	water >10,000 mg	/1?			
Condensa		Volume Release			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units		e units)	Volume/Weight Recovered (provide units)				
Cause of Rel	ease During	frac operations, a	leak developed on	the hose that feeds	Is the steel manifold that connects the frac pump	s, causing	
	fluids to	o release onto the p	oad. A third-party	contractor has been	en retained for remediation activities.		

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Incident ID	NAPP2125143187
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
19.13.29.7(A) NMAC?		
☐ Yes 🗷 No		
·	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rela	ease has been stopped.	
▼ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
D 10.17.00 0 D (1) 3 D		
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		est of my knowledge and understand that pursuant to OCD rules and
regulations all operators are public health or the environ	required to report and/or file certain release notifement. The acceptance of a C-141 report by the O	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a threa	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	of a C-141 report does not reneve the operator of i	esponsionity for compnance with any other federal, state, or local laws
Printed Name: Adrian Ba	aker	Title: SSHE Coordinator
Signature:	n Baks	Date: 9/8/2021
email: adrian.baker@exx	konmobil.com	Telephone: 432-236-3808
eman.		Telephone.
OCD Only		
Dama	na Marcus	Date: 9/12/2021
Received by: Ramo		Date:

NAPP2125143187

Location:	PLU 25 BD 127H		_
Spill Date:	8/25/2021		
	Area 1		
Approximate A	rea =	4490.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.00	inches
Average Porosi	ty Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced Water = 15.00		bbls	
	TOTAL VOLUME OF LEAK		
Total Crude Oi	=	0.00	bbls
Total Produced Water = 15.00			bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oi	=	0.00	bbls
Total Produced	Water =	5.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 47121

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	47121
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	9/12/2021

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(NAPP2125143187)

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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?			
Are the lateral extents of the release within a 100-year floodplain?			
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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil		
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 well Field data	ls.		
Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs			
Photographs including date and GIS information			
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody			
🔼 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.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Adrian Baker	Title: Environmental Coordinator			
Signature:Clorian Baks	Date: 02/08/2022			
email:adrian.baker@exxonmobil.com	Telephone: 432-236-3808			
OCD Only				
Received by:	Date:			

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Incident ID	NAPP2125143187
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Closure

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

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

 ☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC ☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) ☑ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling) ☑ Description of remediation activities 					
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate water, human health of the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the confidence with 19.15.29.13 NMAC including notification to the OC Printed Name: Adrian Baker Signature: Adrian Baker	ertain release notifications and perform corrective actions for releases see of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, surface e of a C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in ED when reclamation and re-vegetation are complete. Title: Environmental Coordinator				
Email:adrian.baker@exxonmobil.com	Telephone: 432-236-3808				
ODC Only					
Received by:	Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by:	Date: 02/16/2022 Title: Environmental Specialist A				
Timed Name.	Title				

wsp

WSP USA

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

February 7, 2022

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

RE: Closure Request
PLU 25 BD 127H
Incident Number NAPP2125143187
Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Poker Lake Unit (PLU) 25 Bushy Draw (BD) 127H (Site) located in Unit H, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2125143187.

RELEASE BACKGROUND

On August 25, 2021, during frac operations, a leak developed on the hose that feeds the steel manifold that connects the frac pumps. Approximately 15 barrels (bbls) of produced water were released onto the caliche pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 8, 2021. The release was assigned Incident Number NAPP2125143187.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During February 2021, WSP installed a soil boring (C-4498) located 0.7 miles west of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was



encountered during drilling activities. The Well Record and Log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

During April 2021, WSP installed a soil boring (C-04500) utilizing a truck-mounted auger drill rig approximately 2.4 miles east of the Site. Soil boring C-04500 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at the borehole is greater than 110 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04500 is provided on Figure 1.

In addition, the nearest USGS well (USGS 320643103465002) is located 2.8 miles northeast of the Site with a reported depth to water of 318 feet bgs, measured in 2012. The nearest NMOSE well (C 03781) is located 1.6 miles north of the Site with a reported depth to water of 325 feet bgs. The location of USGS well 320643103465002 and NMOSE well C 03871 are provided on Figure 1 and the Well Records are included in Attachment 1. Although the data points listed above are greater than NMOCD's preferred 0.5-mile radius from the Site, the consistent presence of non-water bearing lithology observed in boreholes located to the east and west of the Site, and with water well data to the north and northeast of the Site indicating a depth to water greater than 300 feet bgs, WSP proposes the number of distribution of data points is sufficient to estimate depth to groundwater at the Site as greater than 100 feet bgs.

The closest continuously flowing or significant watercourse to the Site is a wetland located approximately 378 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg



 Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On November 5, 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 five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS01, SS02, SS04, and SS05 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil sample SS03 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Closure Criteria. Based on elevated field screening activities and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On December 28, 2021, WSP personnel returned to the Site to oversee delineation activities as indicated by field screening activities and laboratory analytical results for the preliminary soil samples.

Five potholes (PH01 through PH05) were advanced via track-mounted backhoe within the release extent to assess the vertical extent of impacted soil. Potholes PH01 through PH05 were advanced to a depth of 4 feet bgs. Potholes PH01, PH03, PH04, and PH05 were advanced at the SS01, SS02, SS04, and SS05 preliminary soil sample locations, respectively. Discrete delineation soil samples were collected from each pothole from depths ranging from 1-foot to 4 feet bgs. Soil from the



potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. Additionally, delineation samples SS06 through SS10 were collected from around the release extent from a depth of approximately 0.25 feet bgs to confirm the lateral extent of the release. The potholes and delineation soil sample locations are depicted on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation samples SS01 through SS10, collected around the release extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Between December 28, 2021 and January 7, 2022, WSP personnel were at the Site to oversee excavation activities as indicated by field screening activities and laboratory analytical results for the preliminary soil samples.

Excavation activities were completed to remove impacted soil in the area surrounding preliminary soil sample SS03. Excavation activities were performed using a track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 1.5 feet bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04, FS03A, and FS04A were collected from the floor of the excavation, from depths ranging from 1.5 feet to 1.65 feet bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation floor samples FS01, FS02, FS03A, and FS04A, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation floor samples FS03 and FS04 indicated that TPH-GRO/TPH-DRO and TPH



concentrations initially exceeded the Closure Criteria. Additional soil was removed from these areas and subsequent floor samples FS03A and FS04A were compliant. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4. The final excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation measured approximately 760 square feet. A total of approximately 42 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 25, 2021 release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release extent was laterally delineated to below the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further action for Incident Number NAPP2125143187.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365.

Sincerely,

WSP USA Inc.

Kalei Jennings

Consultant, Environmental Scientist

Aimee Cole

Linée Cale

Sr. Consultant, Environmental Scientist

cc: Adrian Baker, XTO

Kalui Jennings



Bureau of Land Management

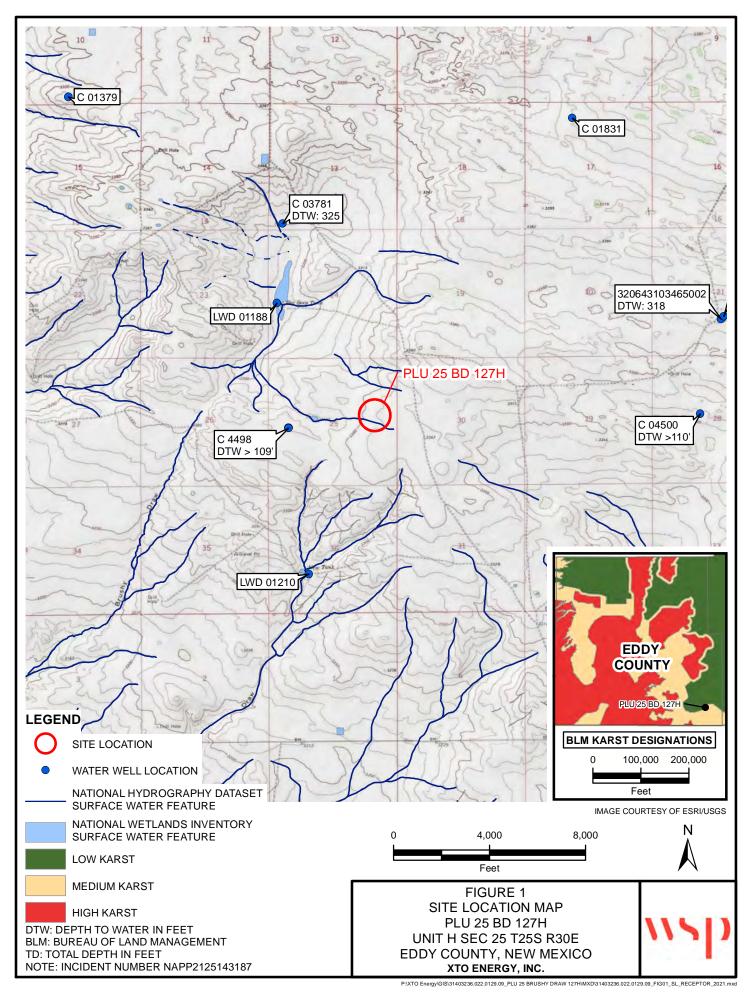
Attachments:

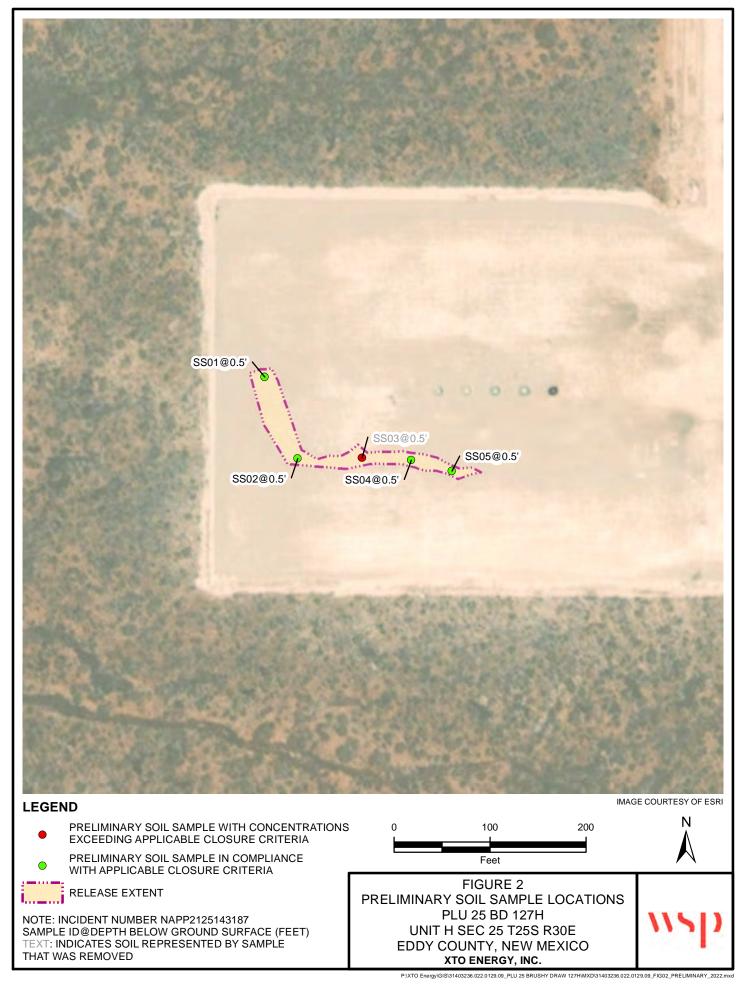
Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations
Table 1 Soil Analytical Results

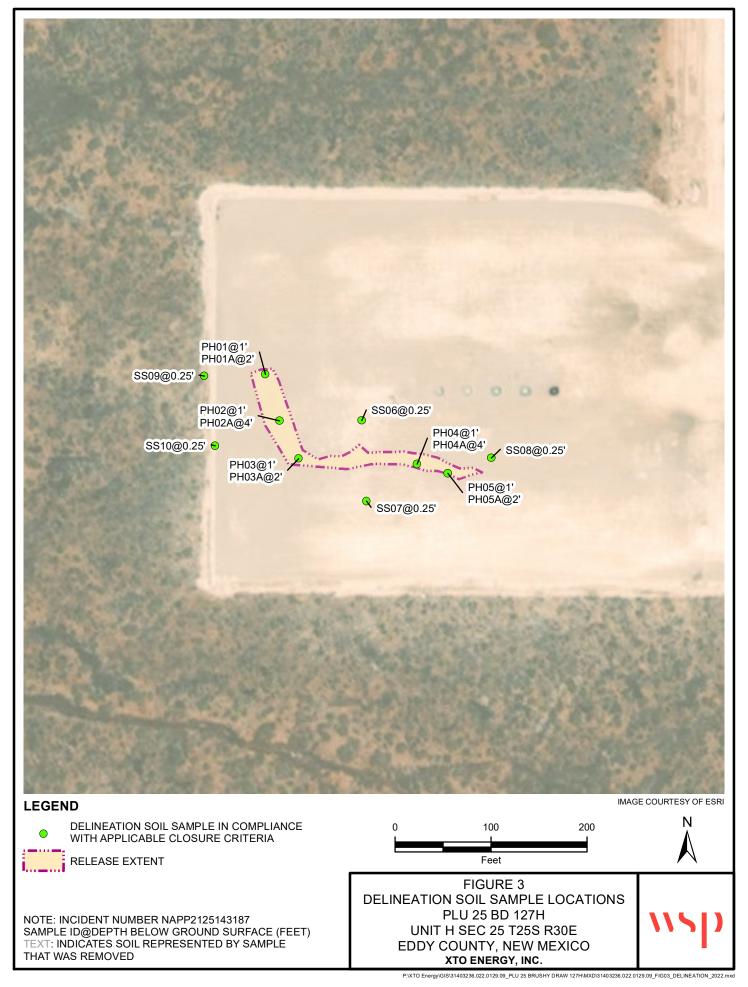
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Logs

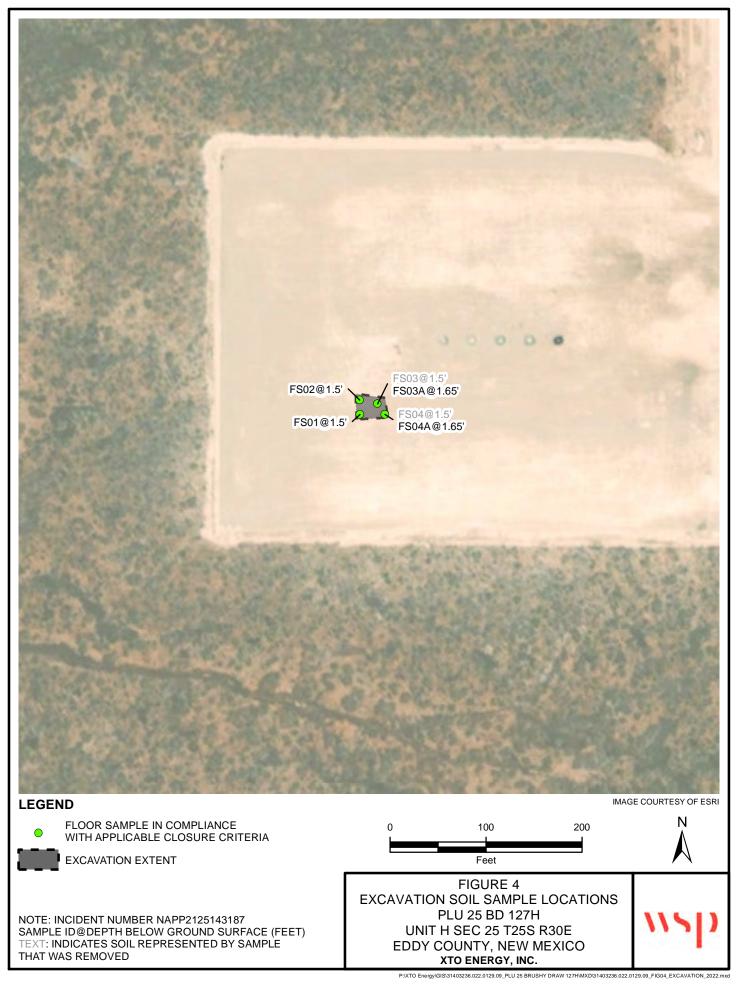
Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports









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Table 1

Soil Analytical Results PLU 25 BD 127H Incident Number NAPP2125143187 XTO Energy 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 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Sa	mples									
SS01	11/05/2021	0.5	< 0.00199	< 0.00398	50.6	<50.0	<50.0	50.6	50.6	3,930
SS02	11/05/2021	0.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	11,100
SS03	11/05/2021	0.5	< 0.00198	0.00849	5,410	<49.8	357	5,410	5,770	22,000
SS04	11/05/2021	0.5	< 0.00198	< 0.00396	176	<50.0	64.1	176	240	2,400
SS05	11/05/2021	0.5	< 0.00199	< 0.00398	156	<49.8	<49.8	156	156	4,770
SS06	01/28/2022	0.25	< 0.00199	< 0.00398	69.2	<50.0	<50.0	69.2	69.2	235
SS07	01/28/2022	0.25	< 0.00200	< 0.00400	70.7	<50.0	<50.0	70.7	70.7	307
SS08	01/28/2022	0.25	< 0.00200	< 0.00401	79.3	<50.0	<50.0	79.3	79.3	378
SS09	12/28/2021	0.25	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	8.04
SS10	12/28/2021	0.25	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97
Delineation Soil San	nples									
PH01	12/28/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,000
PH01A	12/28/2021	2	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	< 50.0	36.5
PH02	12/28/2021	1	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,590
PH02A	12/28/2021	4	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	27.5
PH03	12/28/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	4,210
PH03A	12/28/2021	2	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,070
PH04	12/28/2021	1	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,520
PH04A	12/28/2021	4	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	293
PH05	12/28/2021	1	< 0.00199	< 0.00398	62.9	<50.0	<50.0	<50.0	<50.0	838
PH05A	12/28/2021	2	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	62.5

Received by OCD: 2/10/2022 7:42:48 AM

Table 1

Soil Analytical Results PLU 25 BD 127H Incident Number NAPP2125143187 XTO Energy Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Sai	mples									
FS01	12/28/2021	1.5	< 0.00199	< 0.00398	52.2	<50.0	<50.0	52.2	52.2	406
FS02	12/28/2021	1.5	< 0.00198	< 0.00397	210	<50.0	<50.0	210	210	1,470
FS03	12/28/2021	1.5	< 0.00198	< 0.00396	1,380	<50.0	<50.0	1,380	1,380	4,710
FS03A	01/07/2022	1.65	< 0.00200	< 0.00401	217	<50.0	<50.0	217	217	2,390
FS04	12/28/2021	1.5	< 0.00199	< 0.00398	1,290	<49.9	52.2	1,290	1,340	2,340
FS04A	01/07/2022	1.65	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	< 50.0	496

Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - 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

Text impacted soil was excavated



2904 W 2nd St. Roswell, NM 88201 voice: 575,624,2420 fax: 575,624,2421 www.atkinseng.com

03/11/2021

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4498 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4498Pod1.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gran Middle

1005 A A B



					Tuesday of the same		T	70	1400			
NO	POD1 (BH-		.)		WELL TAG ID NO. II/a		C-4498	8).	5 X A			
OCATI	WELL OWNER I	The second second second					PHONE (OPTI	ONAL)	POINTS			
WELL	WELL OWNER I 6401 Holiday						CITY STATE ZIP Midland TX 79707					
1. GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		TTUDE	32° -103°	6'	1.96" N 26.19" W		REQUIRED: ONE TEN	TH OF A SECOND			
1. GEN	DESCRIPTION I			STREET ADD	RESS AND COMMON LA	NDMARKS - PL	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE			
Ī	LICENSE NO. 1249		NAME OF LICENSEL		Jackie D. Atkins			NAME OF WELL DR Atkins Eng	ILLING COMPANY gineering Associates, I	nc.		
	DRILLING STAT 02/24/20		DRILLING ENDED 02/24/2021		OMPLETED WELL (FT) orary well material	BORE HO	LE DEPTH (FT) 109	DEPTH WATER FIR	ST ENCOUNTERED (FT) n/a			
Z	COMPLETED W	ELL 18:	ARTESIAN	7 DRY HO	LE SHALLOW (C	INCONFINED)		STATIC WATER LEV	vel in completed we n/a	LL (FT)		
E	DRILLING FLUI	D:	AIR	MUD	ADDITIVES -	SPECIFY:						
RM	DRILLING MET	HOD:	ROTARY	HAMME	R CABLE TOOL	, Готни	ER - SPECIFY:	Hollo	ow Stem Auger			
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO DIAM (inches)			(include	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) (add cou			CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)		
NG & CA	0	109	±6.5		Boring- HSA		-			-		
Z. DRILLI												
	DEPTH (fee	et bgl)	BORE HOLE	1 2 2 2 2	IST ANNULAR SEAL			AMOUNT	METHO			
TERIAL	FROM	то	DIAM. (inches)	GRA	AVEL PACK SIZE-RA	NGE BY INTI	EKVAL	(cubic feet)	PLACEN	IEN I		
3. ANNULAR MATERIAL												
	OSE INTERNA	I IISE					WP.2	0 WELL RECORD	& LOG (Version 06/3	0/17)		

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

FILE NO.

LOCATION

L	DEPTH (feet bgl)	1 To 1 To 1	COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	2011 102 100	WATER- BEARING ZONES (gpm
	0	34	34	Caliche, tan, no odor, no stain, gravel, dry	Y VN	
	34	40	6	sand/ cacliche, tan, no odor, no stain, m-f grain, well sorted, dry	Y /N	
	40	56	16	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y /N	
	56 72 16 sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted				dry Y ✓N	
	72	79	7	sand, tan, no odor, no stain, m-f grain, well sorted, dry	Y /N	
3	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-f grained, well sort	ed, m Y ✓N	
					YN	
5					Y N	
					Y N	1
					Y N	
					Y N	
5					YN	
" HIDROGEOLOGIC TOO OF WELL					YN	
					Y N	
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					Y N	
					Y N	
					Y N	
u	10 000000000000000000000000000000000000		Curt Tulo Curt		Y N	
	PUM			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:	TOTAL ESTIMATED WELL YIELD (gpm):	0,00
VISION	WELL TES	STAF	ET TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER emporary well materials removed and the soil boring backfilled using	R THE TESTING PERIC	D.
LEST, MICHOLIERY			16	the below ground surface, then hydrated bentonite chips from ten feet ogs adapted from WSP on-site geologist.	below ground surface	to surface.
3. 153	PRINT NAM		RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION OTHER TH	IAN LICENSEE
SIGNATURE	CORRECT	RECORD (F THE ABOVE	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RI 30 DAYS AFTER COMPLETION OF WELL DRILLING:	EF, THE FOREGOING I	S A TRUE AN
a. Sterr	Jack 1	Atkins		Jackie D. Atkins	03/11/2021	
		SIGNA	TURE OF DRILL	ER / PRINT SIGNEE NAME	DATE	
OF	R OSE INTER	NAL USE		WR-20 WEL	L RECORD & LOG (Ve	rsion 06/30/201
_	E NO.			POD NO. TRN NO.	- mark a settle of	
IL	ENO.					PAGE 2 OF



PLUGGING RECORD



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

	wner: XTO ENERGY (Kyle			-	Phone	No.: 432	2.682.8873		
	g address: 6401 Holiday Hill Midland	Dr.	State:		τ	exas		_ Zip code:	79707
u. w	ELL PLUGGING INFORM	IATION:							
1)	Name of well drilling com	pany that plu	gged well:	lackie D.	Atkins (Atkins En	gineering	Associates I	nc.)
2)	New Mexico Well Driller		JULY 18					ation Date:	
3)	Well plugging activities w Shane Eldridge	ere supervise	d by the follo	wing wel	l driller	(s)/rig sup	ervisor(s):	
4)	Date well plugging began:	03/02/202	1	_ Date	well plu	agging co	ncluded:	03/02/202	1
5)	GPS Well Location:	Latitude: Longitude: _	32 -103	_deg,	6 50	min, _ min, _	1.96 26.19	_ sec _ sec, WGS	84
5)	Depth of well confirmed a by the following manner:			109	ft be	low grou	nd level (bgl),	
7)	Static water level measure	d at initiation	of plugging:	n/a	ft bg	gl			
3)	Date well plugging plan of	operations w	as approved	by the Sta	ate Engi	neer: 1	2/01/2020	<u> </u>	
9)	Were all plugging activitie differences between the ap						Yes (attach a		lease describes as needed):

Version: September 8, 2009

Page 1 of 2

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

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
	10'-109' Drill Cuttings	Approx. 171 gallons	171 gallons	Boring	+d05
				SEDT	TEDING 22
1		MULTIPLY cubic feet x 7 cubic yards x 20	BY AND OBTAIN 7.4805 = gallons 1.97 = gallons		

III. SIGNATURE:

I, Jackie D. Atkins	say	that	I am	familiar	with	the	rules	of the	Office	of t	he	State
Engineer pertaining to the plugging of wells and that ea	ch a	nd all	of th	e stateme	nts in	this	Plugg	ing Re	cord and	d atta	chn	nents
are true to the best of my knowledge and belief.												

Jack Atkins	03/11/2021
Signature of Well Driller	Date

Version: September 8, 2009 Page 2 of 2

2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign

Final Audit Report 2021-03-11

Created: 2021-03-11

By: Lucas Middleton (lucas@atkinseng.com)

Status:

Transaction ID: CBJCHBCAABAAq2m7g1wGV8cRoBzMugpPTk25-4ojFW8H

"2020-03-10_C-4498-POD1_OSE_Well Record and Log-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-03-11 - 7:17:39 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-03-11 - 7:18:18 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-03-11 - 7:29:33 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2021-03-11 - 7:31:05 PM GMT - Time Source: server- IP address: 74.50.153.115



Agreement completed. 2021-03-11 - 7:31:05 PM GMT





John R. D Antonio, Jr., P.E. State Engineer

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

Released to Imaging: 2/16/2022 4:19:48 PM

Trn Nbr: 682534 File Nbr: C 04500

Dec. 01, 2020

WSP USA KOREY KENNEDY 820 MEGAN AVENUE UNIT B RIFLE, CO 81650

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely

Andrew Dennis (575) 622-6521

Enclosure

explore

John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 682534 File Nbr: C 04500

Dec. 01, 2020

XTO ENERGY INC
KYLE LITTRELL
6401 N HOLIDAY HILL DR
MIDLAND, TX 79707

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely

Andrew Dennis (575)622-6521

Enclosure

explore

File No. C- 4500

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

	To receipt occorate Engine	er website: http://www.ose.state.nm.us/	
Purpose:	Pollution Control And/Or Recovery	☐ Ground So	urce Heat Pump
Exploratory Well (Pump test)	Construction Site/Pu Works Dewatering	ublic	ribe): Environmental Sampling
Monitoring Well	Mine Dewatering		
A separate permit will be required	to apply water to beneficial u	use regardless if use is consumptive	e or nonconsumptive.
Temporary Request - Request	ed Start Date: November 18,	2020 Requested En	d Date: TBD
Plugging Plan of Operations Subm	nitted? Yes No		
. APPLICANT(S)			
ADDI ICANTICA			
		<u> </u>	
Name: yle Littrell		Name: Korey Kennedy	
Name: yle Littrell Contact or Agent:	check here if Agent □		check here if Agent
Name: (yle Littrell Contact or Agent: (TO Energy, Inc.	check here if Agent	Korey Kennedy	check here if Agent
Name: (yle Littrell Contact or Agent: (TO Energy, Inc. Mailing Address: 401 N. Holiday Hill Dr.	check here if Agent	Contact or Agent WSP USA Mailing Address:	check here if Agent
Name: Syle Littrell Contact or Agent: CTO Energy, Inc. Mailing Address:	check here if Agent	Contact or Agent WSP USA	check here if Agent
Name: iyle Littrell Contact or Agent: ITO Energy, Inc. Mailing Address: 401 N. Holiday Hill Dr. City: lidland State:	check here if Agent ☐ Zip Code: 79707	Korey Kennedy Contact or Agent WSP USA Mailing Address: 820 Megan Avenue, Unit B City:	check here if Agent ☐ Zip Code:: 81650
Name: (yle Littrell Contact or Agent: (TO Energy, Inc. Mailing Address: 401 N. Holiday Hill Dr. City: lidland	Zip Code:	Korey Kennedy Contact or Agent WSP USA Mailing Address: 820 Megan Avenue, Unit B City: Rifle State:	Zip Code:
Name: Syle Littrell Contact or Agent: CTO Energy, Inc. Mailing Address: 401 N. Holiday Hill Dr. City: Iidland State: exas Phone: 970-317-1867	Zip Code: 79707	Korey Kennedy Contact or Agent WSP USA Mailing Address: 820 Megan Avenue, Unit B City: Rifle State: Colorado Phone: (970) 456-2924	Zip Code: 81650

FOR OSE INTERNAL USE	Application for Permit, Form WR-07, Rev 11/17/16
File No.: C. 4500	Trn. No.: 682534 Receip No.: 4275
Trans Description (optional):	-4500 PODI
Sub-Basin: CUB	PCW/LOG Due Date: 12/1/21
	Pose 4 -50

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

Trn No.:

Page 3 of 3

Received by OCD: 2/10/2022 7:42:48 AM

Trn Desc: C 04500 POD1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.
- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.

File Number: C 04500 Trn Number: 682534

page: 1

Received by OCD: 2/10/2022 7:42:48 AM

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04500 POD1 must be completed and the Well Log filed on or before 12/01/2021.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected:
Formal Application Rcvd: 11/19/2020 Pub. of Notice Ordered:
Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public water the state; and further subject to the specific conditions lister.

Witness my hand and seal this _01 day of

John R. D Antonio / Jr., P.E., State Engineer

Trn Desc 0 04500 PODI

page: 2

ile (4500



Easting 614621.078

Northing 3552379,540

State Plane - NAD 83 (f) - Zone E

Easting 711065.446

Northing 401249.449

Degrees Minutes Seconds

Latitude 32:6:6.960000

Longitude -103:47:6.750000

ocation pulled from Coordinate Search

Coord Search Location

WRAB Abstract Project Areas

Counties

Eddy County Parcels 2020 Hy dro Survey Boundary

> <all other values>

None

ΑII

Part al

Hydro Survey Footprints



1:4,514



Image Info Source: Maxar Date: 11/2/2019 Resolution (m):0.46

Accuracy (m): 5

Sections

BLM Land Grant

PLSS Townsh p

PLSSF rstDiv ..

PLSS Second

Abstract Area:C

CUB

Sub-Basin: Lower Pecos-Red Bluff Reservoir

Land Grant: Not in Land Grant Restrictions:

PLSS Description

SWSESENW Qtr of Sec 28 of 025S 031E

POD Information

Owner: KYLE LITTRELL File Number: C-4500-POD1

POD Status: NoData Permit Status: NoData Permit Use: NoData Purpose: MON

A DENNIS

9:48 PM



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMLC0062140A

November 16, 2020

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: Poker Lake Unit 28 BS 703H

2310' FSL, 1920' FWL Section 28, T25S-R31E Eddy County, New Mexico

Gentlemen:

The above well location and the immediate area was impacted from a recent spill event. In order to fully delineate the impacted site, advanced soil boring will need to take place at approximately 110 feet below ground surface via a truck-mounted rig with hallow stem auger equipment. The boring will be secured and left open for 72 hours at which time XTO will assess for the presence or absence of groundwater. The Bureau of Land Management (landowner) authorizes the access of the pad to accomplish the full delineation of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha A. Morgan

Certified Environmental Protection Specialist

Released to Imaging: 2/16/2022 4:19:48 PM

975 Jo 88 Form 3160-5 98 (August 2007)

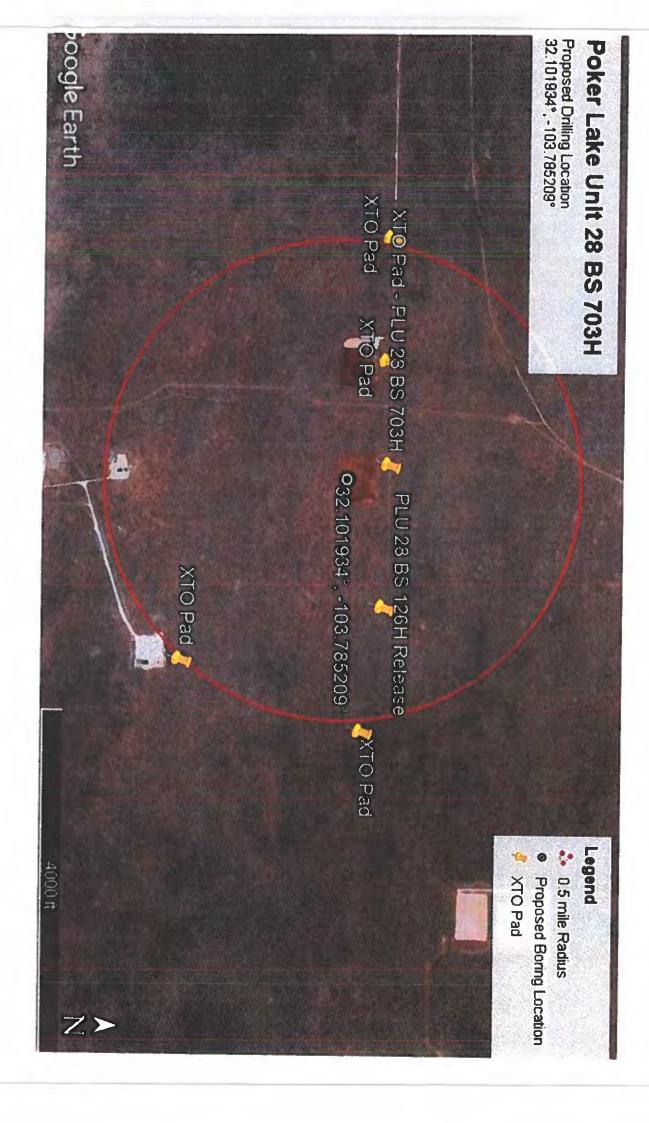
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010
Leage Serial No.	

SUNDRY NOTICES AND REPORTS ON WELLS

NMLC 0062140A

Do not use this i	form for proposals (Use Form 3160-3 (A	to drill or to APD) for suc	re-enter an	ı İs.	o. II malan, Anonee	; of Tride Name
SUBMI	T IN TRIPLICATE - Other	r instructions on	page 2.		7. If Unit of CA/Age	reement, Name and/or No.
1. Type of Well			pogo 2.		1	
☑ Oil Well ☐ Gas V	Vell Other				8. Well Name and N PLU 28 BS 703H	lo.
2. Name of Operator X10 Energy, Inc.				· · · · · · · · · · · · · · · · · · ·	9. API Well No. 30-015-45488	
3a, Address 6401 Holiday Hill Road, Bldg 5		3b. Phone No.	•	de)	10. Field and Pool o	r Exploratory Area
Middlend, 1X 79707 432-620-6724 Bone Spring						
 Location of Well (<i>Poolage</i>, Sec., T., Ink F-Sec 28-T258-R31E / 32.101934, -103.78 	7834	1)			11. Country or Paris Eddy County, N	
12. CHEC	X THE APPROPRIATE BO	OX(BS) TO INDI	CATE NATURI	R OF NOTIC	<u> </u>	
TYPE OF SUBMISSION				PE OF ACT		IIBKDATA
✓ Notice of Intent	Acidize	Deepe			uction (Start/Resume)	Water Shut-Off
Y Profice of Hitelit	Alter Casing	-	re Treat	-	amation	Well Integrity
Subsequent Report	Casing Repair	☐ New C	Construction	\equiv	mplete	Other Surface Disturbance
Suosequent Report	Change Plans		nd Abandon	-	porarily Abandon	C. Otto
Final Abandonment Notice	Convert to Injection	Plug B			r Disposal	
	16					
 I hereby certify that the foregoing is to Name (Printed/Typed) 	ue and correct.					
drian Baker			Title SHE Coo	ordinator		
Signature and		Ì	Date			
	THIS SPACE	FOR FEDER	LAL OR ST	ATE OFF	ICE USE	
pproved by	- 4					1
orditions of upproval, if any, are attached	Mouan Approval of this dotice does	s not warrant or cer	Title rtify	Eps)	Date 11/16/20
at the applicant holds legal or equitable ti	tle to those rights in the subjec	ct lease which wou	old Office	751		Date 11/16/20
itle 18 U.S.C. Section 1001 and Title 43 ctitious or fraudulent statements or repre	J.S.C. Section 1212, make it a sentations as to any matter wit	crime for any per	son knowingly ar	nd willfully to	make to any departme	ent or agency of the United States any false,
nstructions on page 2)	TALL THE PARTY OF	Janesonerroll				



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER District 2 Office, Roswell, NM

John R. D'Antonio Jr., P.E. State Engineer

1900 West Second Street Roswell, New Mexico 88201 (575) 622-6521 FAX: (575) 623-8559

December 1, 2020

XTO Energy c/o Korey Kennedy WSP USA 820 Megan Avenue Unit B Rifle, CO 81650

RE:

Well Plugging Plan of Operations for C-4500-POD1

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 13, 2017, by the State Engineer.

Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

Christopher Angel, PG

Water Resources Professional II Water Resource Allocation Program

encl

Version: July 31, 2019 Page 1 of 5



I. FILING FEE: There is no filing fee for this form.

WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

II. GENERAL/WELLOWNERSHIP: Check here	e if proposing one plan for	multiple monitoring well	ls on the same site and att	aching WD-0
Existing Office of the State Engineer POD Number (W	ell Number) for we	ll to be plugged: C	-4500 - POD1 (BH-01)
Name of well owner: XTO Energy , Inc. attn Kyle Littrell				
Mailing address: 6401 Holiday Hill Dr.		County:	Midland	
City: Midland	State:	Texas	Zip cođe: 79	9707
Phone number: 432-682-8873	E-mail: kyle_l	ittrell@xtoenergy.co	m	
III. WELL DRILLER INFORMATION:				
Well Driller contracted to provide plugging services: Jack	tie D. Atkins (Atkins I	Engineering Associa	tes, Inc.)	
	•	· · · · · · · · · · · · · · · · · · ·		
				.
IV. WELL INFORMATION: Check here if this plan de supplemental form WD-0 Note: A copy of the existing Well Record for the well(s) to	8m and skip to #2 in this	s section.		and attach
	Free Programme of	or analysis pr		
1) GPS Well Location: Latitude: 32°	deg,6'		sec	
Longitude:103°	deg,47'	_min,6.75"s	sec, NAD 83	
2) Reason(s) for plugging well(s):		03E 377 N	CV 18 2020 ⇔110	
Soil boring to determine groundwater level	<u> </u>			
Was well used for any type of monitoring program what hydrogeologic parameters were monitored. water, authorization from the New Mexico Environ	If the well was u	sed to monitor con	taminated or poor	detail quality
4) Does the well tap brackish, saline, or otherwise po	oor quality water?	n/a If yes	s, provide additional	detail,
including analytical results and/or laboratory repor	t(s):		· • · · · · · · · · · · · · · · · · · ·	
5) Static water level:unknownfeet below land	d surface / feet above	e land surface (circ	cle one)	
6) Depth of the well:feet				
			WD-08 Well Pluggir	ng Plan

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7) Inside diameter of innermost casing:inches.
8) Casing material: Temporary PVC SCH 40
The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s):
10) What annular interval surrounding the artesian casing of this well is cement-grouted? n/a
Was the well built with surface casing? If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? If yes, please describe:
Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.
Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
proposed for the well:
The temporary 2" well material will be removed. If no water is encountered then drill cuttings will be used to (10) ten feet of land surface and plugged using hydrated bentonite. If ground water is encountered the boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts
2) Will well head be cut-off below land surface after plugging? n/a
VI. PLUGGING AND SEALING MATERIALS:
Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix reci from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.
1) For plugging intervals that employ cement grout, complete and attach Table A.
2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
Theoretical volume of grout required to plug the well to land surface: 287
4) Type of Cement proposed: Type I/II Neat Cement
5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement. Will the grout be:batch-mixed and delivered to the siteX mixed on site

WD-08 Well Plugging Plan Version: July 31, 2019 Page 2 of 5

AM
7:42:48
1/10/2022
v OCD: 2
eived by
Rec

7)	Grout additives requested, and percent by	y dry weight relative to cement:	
	N/A		
8)	Additional notes and calculations:		
0)	N/A		
VII. Al	DDITIONAL INFORMATION: List ad	ditional information below, or on separate	e sheet(s):
	s calculated on an up to an approximate 8		
	,	·	
	<u> </u>		
	IGNATURE: Kennedy		
Operation	ons and any attachments, which are a part	, say that I have carefully read the for hereof; that I am familiar with the rules ar	nd regulations of the State
Enginee	r pertaining to the plugging of wells and w g Plan of Operations and attachments are to	ill comply with them, and that each and a	all of the statements in the Well
	5 or o promotion and animonia and a	. i f - 1	
		Korey Kennedy	11/19/2020
		Usignature of Applicant	Date
IX. AC	TION OF THE STATE ENGINEER:		
This We	Il Plugging Plan of Operations is:		SE DIT YEU 1.5 2020 PM11:28
	Approved subject to the attached Not approved for the reasons pro	d conditions.	
	Not approved for the reasons pro	ovided on the attached letter.	
	Witness my hand and official seal this	day of <u>December</u>	, 2020
	ALL STATE	John R. D'Antonio Jr. P.E., N	lew Mexico State Engineer
	S ARA E	By: lu C	e
		Christopher Ange	1. PG
		Water Resource Pr	-
		ver negouree if	WD-08 Well Plugging Plan Version: July 31, 2019
	1912		Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	110
Theoretical volume of grout required per interval (gallons)	N/A	N/A	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

OSE DIT NOU 19 2020 AMIL 1/23

Specific Conditions of C-4500-POD1

- If groundwater is <u>not</u> encountered the borehole can be filled with drill cuttings up to 10 feet below ground surface. From 10 feet below ground surface to ground surface the borehole will be filled with bentonite. Bentonite chips shall be hydrated with 5 gallons of water per 50 pound sack.
- 2) If groundwater is encountered, a Type I/II neat Portland cement slurry with no more than 6.0 gallons water per 94-pound sack of Portland cement is approved.
 - a) Grout shall be tremied from the bottom up.
- A completed Plugging Record form shall be submitted no later than 30 days after completion of the plugging.
- 4) Before any attempts are made to plug this well, the O.S.E. District II Office shall be notified 48 hours in advance of the anticipated schedule for plugging, so that an O.S.E. representative has the opportunity to witness the procedures, if deemed necessary.
- 5) Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 6) Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Witness my hand and seal this 1st day of December A.D., 2020

John R. D'Antonio Jr., P.E., State Engineer

Christopher Angel, PG

Water Resources Professional II



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					MC				BH or PH Name:	Date:	
		5 H			WSF	PUSA			BH01	4/20/2021	
,	•				508 West S	tevens S	treet		Site Name: PLU 28	3S 126H	
				Ca	rlsbad, Nev	Mexico	88220		RP or Incident Number:	NRM2026238329	
									LTE Job Number: TE01292	20137	
		LITH	OLO	GIC / SOI	L SAMPLI				Logged By SL	Method: Holl	ow Stem Auguer
Lat/Lo		705005			Field Screer	ning: N/A			Hole Diameter:	Total Depth:	
Comm	695,-103.		screeni	na only load	ed lithology,	well scree	ned from C	00 3' - 110 '	8"	110.3'	
Comm	ieriis.	TTO HOIG	JOICCIII	rig, orny logg	ca inflology,	WOII GOICO	noa nom c	0.0 110.	J		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	0 _ 5 _ 10 _ 15 _ 20	CCHE SP-SM SP-SC	1'-3' 3'-7' 7'-23'		n, tan, light-brown m-f, well sorted, brow stain, m-f, brown, wel r, tan, light brown sal w consolidation	Il sorted, nd, m-f
						25 30 35 40 45 50 55 60 75 75 80 75 80 90 100 105 110	SP		TD @ 110.3'		
					- - -	115			10 8 110.0		



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
obdb Water Resources	(Cooperator Access)	Site Information	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

USGS 320643103465002 25S.31E.21.413314A

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83 Eddy County, New Mexico , Hydrologic Unit 13070001

Well depth: 400 feet

Land surface altitude: 3,374.00 feet above NGVD29.

Well completed in "Pecos River Basin alluvial aquifer" (N100PCSRVR) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-17	2013-01-17	2
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips

Explanation of terms

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

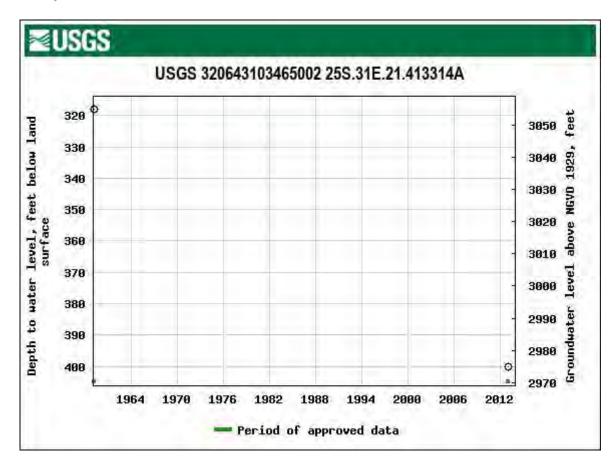
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320643103465002

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2021-10-06 08:45:24 EDT

0.29 0.28 sdww01







New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: C 03781 Subbasin: CUB Cross Reference:

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: ATKINS ENGR ASSOC INC

Contact: CHRIS CORTEZ
Owner: BOPCO, L.P.
Contact: BRIAN PREGGER

Documents on File

Status From/
rn# Doc File/Act 1 2 Transaction Desc. To Acres Dive

Trn # Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 555114 EXPL 2014-11-14 PMT LOG C 03781 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64 Q16 Q4Sec
 Tws Rng

 C 03781 POD1
 Artesian
 3 3 3 3 3 258 30E

 Source
 64 Q16 Q4 Sec
 Tws Rng
 X
 Y
 Other Location Desc

 Artesian
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 25S
 30E
 609306
 3554761
 1/3 MILE W. OF

BUCK JACKSON RD

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.

2/4/22 3:37 PM WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 03781 POD1

3 3 13 25S 30E

609306 3554761

Driller License: 331 **Driller Company:**

SBQ2, LLC DBA STEWART BROTHERS DRILLING

Plug Date:

Source:

CO.

Driller Name:

01/08/2015

Drill Finish Date:

01/10/2015

Log File Date:

Drill Start Date:

02/19/2015

PCW Rcv Date:

Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 8.63

Depth Well:

720 feet

Depth Water: 325 feet

Water Bearing St	ratifications: Top	Bottom	Description
	200	370	Sandstone/Gravel/Conglomerate
	370	390	Sandstone/Gravel/Conglomerate
	390	410	Sandstone/Gravel/Conglomerate
	410	440	Sandstone/Gravel/Conglomerate
	440	460	Shale/Mudstone/Siltstone
	460	470	Shale/Mudstone/Siltstone
	470	490	Shale/Mudstone/Siltstone
	490	500	Shale/Mudstone/Siltstone
	500	510	Sandstone/Gravel/Conglomerate
	510	530	Shale/Mudstone/Siltstone
	530	660	Shale/Mudstone/Siltstone
	660	690	Shale/Mudstone/Siltstone
	690	700	Shale/Mudstone/Siltstone
	700	720	Shale/Mudstone/Siltstone
Casing	Perforations: Top	Bottom	
	340	720	
x			

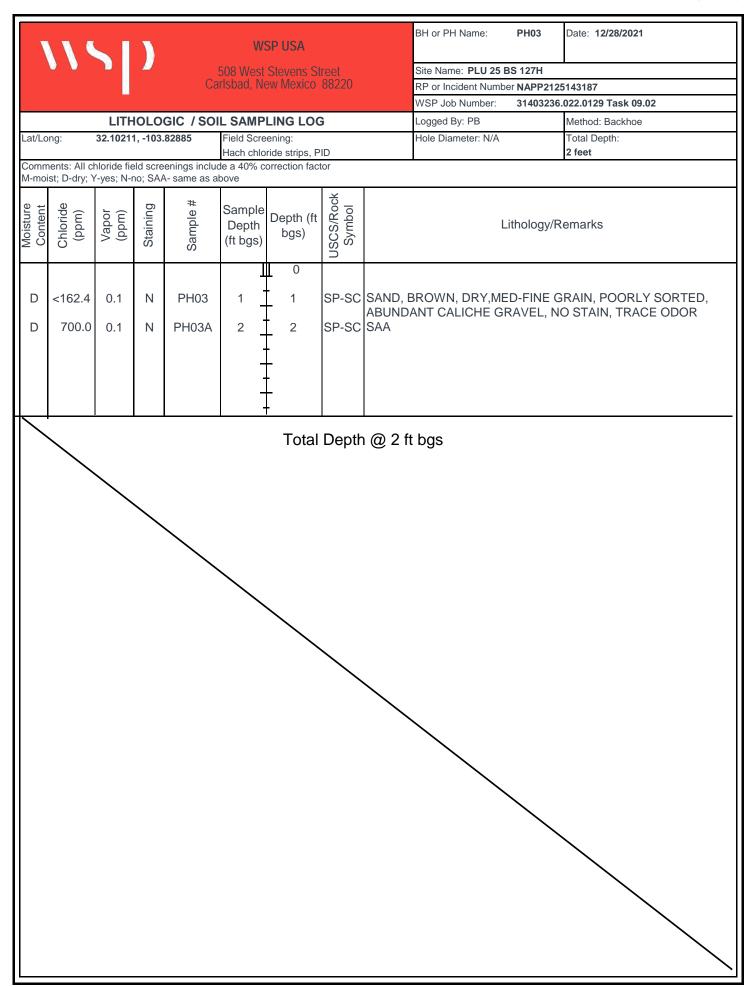
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

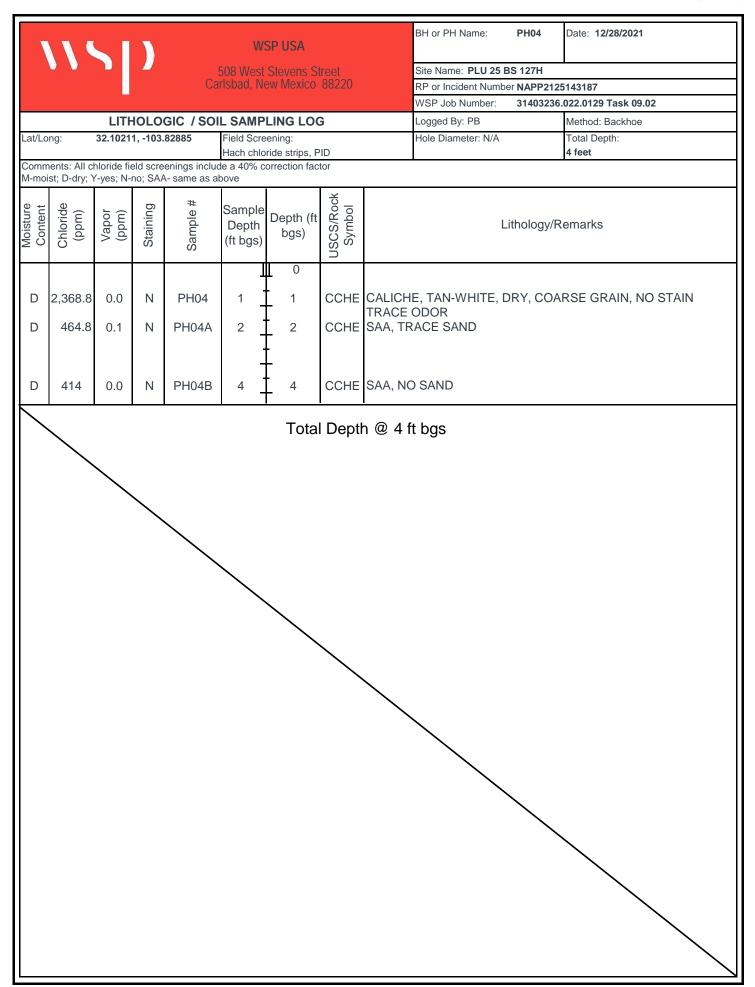
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POINT OF DIVERSION SUMMARY

			_		MIS	CDIICA			BH or PH Name:	PH01	Date: 12/28/2021	
	11.					SP USA						
		" I		Cal	508 West	Stevens St w Mexico	treet		Site Name: PLU 25 E			
		Ш		Ca	iisbau, Ne	W MEXICO	00220		RP or Incident Number:		.022.0129 Task 09.02	
		LITE		GIC / SOI	LCAMDI	INGLO	2		Logged By: PB	31403230	Method: Backhoe	
Lat/Lo	na.	32.1021 ⁻			Field Scree		<u> </u>		Hole Diameter: N/A		Total Depth:	
LavLo	nig.	02.1021	.,			ide strips, P	PID		Proto Blamoton 1471		2 feet	
Comm	nents: All c	hloride fie	eld scre	enings includ - same as al	le a 40% co	orrection fac	tor					
IVI-IIIO	ist, D-dry,	1-yes, IN-I	10, SAP	i- Saille as ai	oove		~					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft bgs)	bgs)	USCS/Rock Symbol		L	ithology/R	emarks	
D	1,602	0.2	N	PH01	1	1			TRA	CE H/C C		
D	<162.4	0.3	N	PH01A	2	_ 2 -	SP-SC				ED, MODERATLY SORT TENT, NO STAIN OR OD	
						_						
					To	otal Dep	oth @ 2	2 ft bgs	;			

114			W:	SP USA		BH or PH Name: PH02 Date: 12/28/2021
					root	Cita Nama: DI II 25 DC 427U
		Cai	rlsbad. Ne	Stevens St ew Mexico	1661 88220	Site Name: PLU 25 BS 127H RP or Incident Number NAPP2125143187
						WSP Job Number: 31403236.022.0129 Task 09.02
Lľ	THOLOG	IC / SOI	L SAMP	LING LOG	à	Logged By: PB Method: Backhoe
	211, -103.8		Field Scre			Hole Diameter: N/A Total Depth:
				ride strips, P		4 feet
Comments: All chloride M-moist; D-dry; Y-yes;				orrection fact	tor	
			3010		¥	1
ure ide	ng lug	# <u>e</u>	Sample	Depth (ft	200 201	
Moisture Content Chloride (ppm)	(ppin) Staining	Sample #	Depth	bgs)	SS/I	Lithology/Remarks
	St	Sa	(ft bgs)	3-7	USCS/Rock Symbol	
				0	1	
D 3,450 0.0) N	PH02	1 _	_ 1	SP-SC	SAND, BROWN, DRY, MED-FINE GRAIN, POORLY SORTED,
D 2,442.4 0.1	N	PH02A	2	2	SP-SC	ABUNDANT CALICHE GRAVEL, NO STAIN OR ODOR
0.1		11102/	_		01 -00	57.01
			_			
		DILIGOD		. ,	00115	CALICULE TANDAULITE DDV COADCE ODAIN, NO CTAIN
D <162.4 0.0) N	PH02B	4	_ 4	CCHE	CALICHE, TAN-WHITE, DRY, COARSE GRAIN, NO STAIN OR ODOR
						on obort
						h @ 4 ft bgs





\\ \ \\	WSP USA 508 West Stevens Street arlsbad, New Mexico 88220	BH or PH Name: PH05 Date: 12/28/2021 Site Name: PLU 25 BS 127H RP or Incident Number NAPP2125143187 WSP Job Number: 31403236.022.0129 Task 09.02
LITHOLOGIC / SO	IL SAMPLING LOG	Logged By: PB Method: Backhoe
Lat/Long: 32.10211, -103.82885	Field Screening:	Hole Diameter: N/A Total Depth:
Comments: All chloride field screenings inclu	Hach chloride strips, PID	2 feet
M-moist; D-dry; Y-yes; N-no; SAA- same as a	de a 40% correction factor above	
Moisture Content Chloride (ppm) Vapor (ppm) Staining	Sample Depth (ft bgs)	Lithology/Remarks
D 1,786.4 0.0 N PH05 D <162.4 0.0 N PH05A		HE, TAN-WHITE, DRY, ABUNDANT COARSE GRAIN SAND AIN, TRACE ODOR
	Total Depth @ :	2 ft bgs



	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 BD 127H	NAPP2125143187
	EDDY COUNTY, NEW MEXICO	

Photo No.	Date	
1	November 05,	
1	2021	
View of release e	xtent during initial	
site assessment		



Photo No.	Date
2	November 05,
2	2021
View of release e	xtent during initial
site ass	essment





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 25 BD 127H	NAPP2125143187
	EDDY COUNTY, NEW MEXICO	

Photo No.	Date
3	December 28,
3	2021
View of deline	eation activities

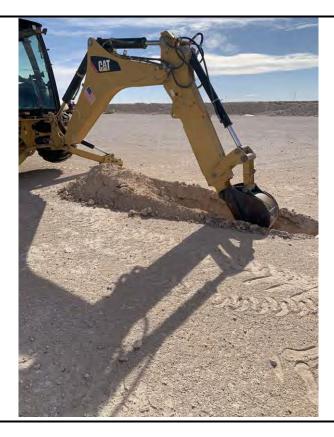
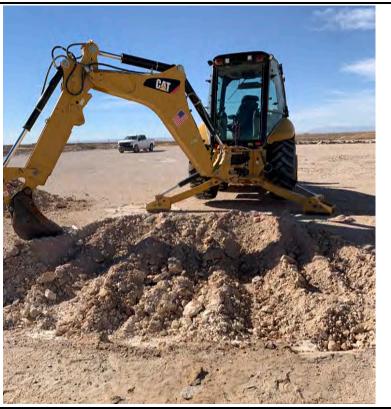


Photo No.	Date
4	December 28,
4	2021
View of excavat	ion activities near
pothol	e PH03





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1548-1

Laboratory Sample Delivery Group: 31403236.022.0129

Client Project/Site: PLU 25 BD 127

For:

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

Attn: Kalei Jennings

J. KRAMER

Authorized for release by: 11/15/2021 3:48:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

..... Links

results through
Total Access

Review your project

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

1

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13

 Client: WSP USA Inc.
 Laboratory Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

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2

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10

4.0

13

Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 S1 Surrogate recovery exceeds control limits, low biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

%R

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

Percent Recovery

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

Job ID: 890-1548-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1548-1

Receipt

The samples were received on 11/8/2021 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11991 and analytical batch 880-11994 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-1548-1) and (890-1557-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-11991/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-12129 and analytical batch 880-12200 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-1548-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

Client Sample ID: SS01

Date Collected: 11/05/21 12:34 Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
Toluene	< 0.00199	U F1	0.00199	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
Ethylbenzene	< 0.00199	U F1	0.00199	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
o-Xylene	< 0.00199	U F1	0.00199	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		11/11/21 12:48	11/15/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			11/11/21 12:48	11/15/21 12:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/11/21 12:48	11/15/21 12:47	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/15/21 14:07	1
Analyte	Result	Qualifier						
,		- Guainioi	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.6	<u> </u>	50.0	mg/Kg	<u>D</u>	Prepared	Analyzed 11/11/21 15:24	
Total TPH	50.6	<u> </u>			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	50.6 ge Organics (D	<u> </u>			<u>D</u> D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics	50.6 ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg	=	<u> </u>	11/11/21 15:24	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	50.6 ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg	=	Prepared	11/11/21 15:24 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg	=	Prepared 11/11/21 08:22	11/11/21 15:24 Analyzed 11/11/21 16:48	Dil Fac
Method: 8015B NM - Diesel Rand Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	50.6 ge Organics (Di Result <50.0 50.6	RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg	=	Prepared 11/11/21 08:22 11/11/21 08:22	11/11/21 15:24 Analyzed 11/11/21 16:48 11/11/21 16:48	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	50.6 ge Organics (Di Result <50.0 50.6 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg	=	Prepared 11/11/21 08:22 11/11/21 08:22 11/11/21 08:22	Analyzed 11/11/21 15:24 Analyzed 11/11/21 16:48 11/11/21 16:48 11/11/21 16:48	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	50.6 ge Organics (Di Result <50.0 50.6 <50.0 %Recovery 123	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg	=	Prepared 11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared	Analyzed 11/11/21 15:24 Analyzed 11/11/21 16:48 11/11/21 16:48 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	50.6 ge Organics (D) Result <50.0 50.6 <50.0 %Recovery 123 141	RO) (GC) Qualifier U Qualifier S1+	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared 11/11/21 08:22	Analyzed 11/11/21 15:24 Analyzed 11/11/21 16:48 11/11/21 16:48 Analyzed 11/11/21 16:48	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	50.6 ge Organics (D) Result <50.0 50.6 <50.0 %Recovery 123 141 omatography -	RO) (GC) Qualifier U Qualifier S1+	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared 11/11/21 08:22	Analyzed 11/11/21 15:24 Analyzed 11/11/21 16:48 11/11/21 16:48 Analyzed 11/11/21 16:48	Dil Fac

Client Sample ID: SS02

Date Collected: 11/05/21 12:37 Date Received: 11/08/21 16:15

Date Received: 11/00/21

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 12:48	11/15/21 13:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/11/21 12:48	11/15/21 13:08	1

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Lab Sample ID: 890-1548-2

Matrix: Solid

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 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

Client Sample ID: SS02 Lab Sample ID: 890-1548-2

Date Collected: 11/05/21 12:37

Date Received: 11/08/21 16:15

Matrix: Solid

Sample Depth: 0.5

Method: 8021B - Volatile Organic	Compounds ((GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130			11/11/21 12:48	11/15/21 13:08	1
- Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/15/21 14:07	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/11/21 15:24	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/11/21 08:22	11/11/21 17:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/11/21 08:22	11/11/21 17:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/11/21 08:22	11/11/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			11/11/21 08:22	11/11/21 17:09	1
o-Terphenyl	127		70 - 130			11/11/21 08:22	11/11/21 17:09	1

Client Sample ID: SS03 Lab Sample ID: 890-1548-3

49.7

Unit

mg/Kg

Result Qualifier

11100

Date Collected: 11/05/21 12:42 Date Received: 11/08/21 16:15

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
Ethylbenzene	0.00242		0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
m-Xylene & p-Xylene	0.00396		0.00396	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
o-Xylene	0.00211		0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
Xylenes, Total	0.00607		0.00396	mg/Kg		11/11/21 12:48	11/15/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130			11/11/21 12:48	11/15/21 13:28	1
1,4-Difluorobenzene (Surr)	123		70 - 130			11/11/21 12:48	11/15/21 13:28	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00849		0.00396	mg/Kg			11/15/21 14:12	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5770		49.8	mg/Kg			11/11/21 15:24	1

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Prepared

Analyzed

11/14/21 02:48

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Dil Fac

Matrix: Solid

1/15/2021

Matrix: Solid

Lab Sample ID: 890-1548-3

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Client Sample ID: SS03

Date Collected: 11/05/21 12:42 Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/11/21 08:22	11/11/21 17:30	1
Diesel Range Organics (Over C10-C28)	5410		49.8	mg/Kg		11/11/21 08:22	11/11/21 17:30	1
Oll Range Organics (Over C28-C36)	357		49.8	mg/Kg		11/11/21 08:22	11/11/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			11/11/21 08:22	11/11/21 17:30	1
o-Terphenyl	99		70 - 130			11/11/21 08:22	11/11/21 17:30	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22000		248	mg/Kg			11/14/21 03:03	50

Client Sample ID: SS04 Lab Sample ID: 890-1548-4 Date Collected: 11/05/21 12:44 Matrix: Solid

Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:49	
Toluene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:49	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:49	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/11/21 12:48	11/15/21 13:49	
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/11/21 12:48	11/15/21 13:49	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/11/21 12:48	11/15/21 13:49	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130			11/11/21 12:48	11/15/21 13:49	1
1,4-Difluorobenzene (Surr)	114		70 - 130			11/11/21 12:48	11/15/21 13:49	1
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/15/21 14:12	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	_	Duamanad		D:: F
				Oilit	D	Prepared	Analyzed	DII Fac
Total TPH	240		50.0	mg/Kg	— <u> </u>	Prepared	11/11/21 15:24	
Total TPH Method: 8015B NM - Diesel Rai		RO) (GC)				Prepared		
	nge Organics (D	RO) (GC) Qualifier			D	Prepared		1
Method: 8015B NM - Diesel Rai	nge Organics (D	Qualifier	50.0	mg/Kg		<u> </u>	11/11/21 15:24	Dil Fac
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (D	Qualifier	50.0	mg/Kg		Prepared	11/11/21 15:24 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organics (D Result <50.0	Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 11/11/21 08:22	11/11/21 15:24 Analyzed 11/11/21 17:51	Dil Fac
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (D Result <50.0	Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/11/21 08:22 11/11/21 08:22	11/11/21 15:24 Analyzed 11/11/21 17:51 11/11/21 17:51	Dil Fac

Job ID: 890-1548-1

Client: WSP USA Inc. Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Client Sample ID: SS04 Lab Sample ID: 890-1548-4

Date Collected: 11/05/21 12:44 Matrix: Solid Date Received: 11/08/21 16:15

Sample Depth: 0.5

Method: 8015B NM - Diesel Range	Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac					
o-Terphenyl	91	70 - 130	11/11/21 08:22	11/11/21 17:51	1					

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400	24.8	ma/Ka			11/14/21 03:07	

Client Sample ID: SS05 Lab Sample ID: 890-1548-5 Date Collected: 11/05/21 12:48 **Matrix: Solid**

Date Received: 11/08/21 16:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 14:10	
Toluene	< 0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 14:10	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 14:10	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/11/21 12:48	11/15/21 14:10	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/11/21 12:48	11/15/21 14:10	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/11/21 12:48	11/15/21 14:10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			11/11/21 12:48	11/15/21 14:10	
1,4-Difluorobenzene (Surr)	109		70 - 130			11/11/21 12:48	11/15/21 14:10	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/15/21 14:12	
Analyte Total TPH		Qualifier	RL 49.8	Unit ma/Ka	D	Prepared	Analyzed 11/11/21 15:24	Dil Fa
Total TPH	156	-	49.8	mg/Kg			11/11/21 15:24	
Method: 8015B NM - Diesel Rang								
	• •							
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
	• •	Qualifier	RL 49.8	Unit mg/Kg	D	Prepared 11/11/21 08:22	Analyzed 11/11/21 18:12	
Analyte Gasoline Range Organics	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	11/11/21 08:22	11/11/21 18:12	
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>	11/11/21 08:22	11/11/21 18:12	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 156 <49.8	Qualifier U	49.8 49.8 49.8	mg/Kg	<u>D</u>	11/11/21 08:22 11/11/21 08:22 11/11/21 08:22	11/11/21 18:12 11/11/21 18:12 11/11/21 18:12	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 156 <49.8 %Recovery	Qualifier U	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u>D</u>	11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared	11/11/21 18:12 11/11/21 18:12 11/11/21 18:12 11/11/21 18:12 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared 11/11/21 08:22	11/11/21 18:12 11/11/21 18:12 11/11/21 18:12 Analyzed 11/11/21 18:12	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/11/21 08:22 11/11/21 08:22 11/11/21 08:22 Prepared 11/11/21 08:22	11/11/21 18:12 11/11/21 18:12 11/11/21 18:12 Analyzed 11/11/21 18:12	Dil Fa

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1548-1	SS01	98	99	
390-1548-1 MS	SS01	91	95	
390-1548-1 MSD	SS01	98	99	
390-1548-2	SS02	101	102	
390-1548-3	SS03	67 S1-	123	
390-1548-4	SS04	103	114	
390-1548-5	SS05	98	109	
LCS 880-12021/1-A	Lab Control Sample	90	94	
_CSD 880-12021/2-A	Lab Control Sample Dup	94	95	
MB 880-12021/5-A	Method Blank	109	98	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1548-1	SS01	123	141 S1+	
890-1548-2	SS02	118	127	
890-1548-3	SS03	105	99	
890-1548-4	SS04	88	91	
890-1548-5	SS05	110	120	
890-1557-A-1-D MS	Matrix Spike	117	118	
890-1557-A-1-E MSD	Matrix Spike Duplicate	118	119	
LCS 880-11991/2-A	Lab Control Sample	79	84	
LCSD 880-11991/3-A	Lab Control Sample Dup	89	96	
MB 880-11991/1-A	Method Blank	121	143 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-12021/5-A

Matrix: Solid

Analysis Batch: 12220

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 12021

	141.0	W.D						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/11/21 12:48	11/15/21 12:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/11/21 12:48	11/15/21 12:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/11/21 12:48	11/15/21 12:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/11/21 12:48	11/15/21 12:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/11/21 12:48	11/15/21 12:25	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		11/11/21 12:48	11/15/21 12:25	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	11/11/21 12:48	11/15/21 12:25	1
1,4-Difluorobenzene (Surr)	98	70 - 130	11/11/21 12:48	11/15/21 12:25	1

Lab Sample ID: LCS 880-12021/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 12220

Prep Type: Total/NA

Prep Batch: 12021

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08974		mg/Kg		90	70 - 130	
Toluene	0.100	0.07855		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.08329		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1603		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.08127		mg/Kg		81	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-12021/2-A

Matrix: Solid

Analysis Batch: 12220

Prep Type: Total/NA

Prep Batch: 12021

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08682		mg/Kg		87	70 - 130	3	35
Toluene	0.100	0.08159		mg/Kg		82	70 - 130	4	35
Ethylbenzene	0.100	0.08606		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1659		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.08365		mg/Kg		84	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 890-1548-1 MS

Matrix: Solid

Analysis Batch: 12220

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 12021

_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.07122		mg/Kg		71	70 - 130	
Toluene	< 0.00199	U F1	0.101	0.06549	F1	mg/Kg		65	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

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

Lab Sample ID: 890-1548-1 MS **Client Sample ID: SS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 12220 Prep Batch: 12021 Sample Sample Spike MS MS %Rec.

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1	0.101	0.06525	F1	mg/Kg		65	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1260	F1	mg/Kg		63	70 - 130	
o-Xylene	<0.00199	U F1	0.101	0.06337	F1	mg/Kg		63	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 91 1,4-Difluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 890-1548-1 MSD **Client Sample ID: SS01 Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 12220** Prep Batch: 12021

Sample Sample Spike MSD MSD %Rec. Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00199 U 0.100 0.08385 mg/Kg 84 70 - 130 16 35 75 Toluene <0.00199 UF1 0.100 0.07510 mg/Kg 70 - 130 14 35 Ethylbenzene <0.00199 UF1 0.100 0.07458 75 70 - 130 35 mg/Kg 13 m-Xylene & p-Xylene <0.00398 UF1 0.200 0.1436 mg/Kg 72 70 - 130 13 35 13

0.100 0.07240 72 70 - 130 o-Xylene <0.00199 UF1 mg/Kg MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 98

70 - 130

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

99

Lab Sample ID: MB 880-11991/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

1,4-Difluorobenzene (Surr)

Analysis Batch: 11994

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/11/21 08:22	11/11/21 09:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/11/21 08:22	11/11/21 09:47	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/11/21 08:22	11/11/21 09:47	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 70 - 130 1-Chlorooctane 121 11/11/21 08:22 11/11/21 09:47 143 S1+ 70 - 130 11/11/21 08:22 11/11/21 09:47 o-Terphenyl

Lab Sample ID: LCS 880-11991/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11994 Prep Batch: 11991

	Spike	LCS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1281		mg/Kg		128	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	
C10-C28)								

Eurofins Xenco, Carlsbad

Prep Batch: 11991

Job ID: 890-1548-1 SDG: 31403236.022.0129

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

LCS LCS

Lab Sample ID: LCS 880-11991/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 11994

Project/Site: PLU 25 BD 127

Client: WSP USA Inc.

Prep Type: Total/NA

Prep Batch: 11991

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 79 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-11991/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11994

Prep Type: Total/NA

Prep Batch: 11991 %Rec. RPD

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1216 122 70 - 130 5 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 943.3 mg/Kg 94 20 70 - 130C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	89	70 - 130
o-Terphenyl	96	70 - 130

Lab Sample ID: 890-1557-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 11994

Prep Type: Total/NA

Prep Batch: 11991

Sample Sample Spike MS MS Result Qualifier Analyte Result Qualifier hahhA Unit D %Rec Limits Gasoline Range Organics <49.9 UF1 997 1600 F1 mg/Kg 160 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 1097 mg/Kg 106 70 - 130

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-1557-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 11994

Prep Type: Total/NA

Prep Batch: 11991

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U F1	998	1611	F1	mg/Kg		161	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	998	1109		mg/Kg		107	70 - 130	1	20	
C10 C28)												

C10-C28)

Surrogate 1-Chlorooctane o-Terphenyl

พรษ	MISD	
%Recovery	Qualifier	Limits
 118		70 - 130
119		70 - 130

Med Med

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-12129/1-A

Matrix: Solid

Analysis Batch: 12200

Client Sample ID: Method Blank **Prep Type: Soluble**

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/14/21 01:05

Lab Sample ID: LCS 880-12129/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12200

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 247.4 mg/Kg 99 90 - 110

MB MB

Lab Sample ID: LCSD 880-12129/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble Analysis Batch: 12200**

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: 890-1547-A-6-J MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 12200

Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 191 F1 249 408.1 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1547-A-6-K MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 12200

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 191 F1 249 416.5 mg/Kg 91 90 - 110 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

GC VOA

Prep Batch: 12021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	5035	
890-1548-2	SS02	Total/NA	Solid	5035	
890-1548-3	SS03	Total/NA	Solid	5035	
890-1548-4	SS04	Total/NA	Solid	5035	
890-1548-5	SS05	Total/NA	Solid	5035	
MB 880-12021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-12021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-12021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1548-1 MS	SS01	Total/NA	Solid	5035	
890-1548-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 12220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	8021B	12021
890-1548-2	SS02	Total/NA	Solid	8021B	12021
890-1548-3	SS03	Total/NA	Solid	8021B	12021
890-1548-4	SS04	Total/NA	Solid	8021B	12021
890-1548-5	SS05	Total/NA	Solid	8021B	12021
MB 880-12021/5-A	Method Blank	Total/NA	Solid	8021B	12021
LCS 880-12021/1-A	Lab Control Sample	Total/NA	Solid	8021B	12021
LCSD 880-12021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	12021
890-1548-1 MS	SS01	Total/NA	Solid	8021B	12021
890-1548-1 MSD	SS01	Total/NA	Solid	8021B	12021

Analysis Batch: 12338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	Total BTEX	
890-1548-2	SS02	Total/NA	Solid	Total BTEX	
890-1548-3	SS03	Total/NA	Solid	Total BTEX	
890-1548-4	SS04	Total/NA	Solid	Total BTEX	
890-1548-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	8015NM Prep	
890-1548-2	SS02	Total/NA	Solid	8015NM Prep	
890-1548-3	SS03	Total/NA	Solid	8015NM Prep	
890-1548-4	SS04	Total/NA	Solid	8015NM Prep	
890-1548-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-11991/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11991/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1557-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1557-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	8015B NM	11991
890-1548-2	SS02	Total/NA	Solid	8015B NM	11991

QC Association Summary

Job ID: 890-1548-1 Client: WSP USA Inc. Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

GC Semi VOA (Continued)

Analysis Batch: 11994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-3	SS03	Total/NA	Solid	8015B NM	11991
890-1548-4	SS04	Total/NA	Solid	8015B NM	11991
890-1548-5	SS05	Total/NA	Solid	8015B NM	11991
MB 880-11991/1-A	Method Blank	Total/NA	Solid	8015B NM	11991
LCS 880-11991/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11991
LCSD 880-11991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11991
890-1557-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	11991
890-1557-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11991

Analysis Batch: 12045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Total/NA	Solid	8015 NM	
890-1548-2	SS02	Total/NA	Solid	8015 NM	
890-1548-3	SS03	Total/NA	Solid	8015 NM	
890-1548-4	SS04	Total/NA	Solid	8015 NM	
890-1548-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 12129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Soluble	Solid	DI Leach	
890-1548-2	SS02	Soluble	Solid	DI Leach	
890-1548-3	SS03	Soluble	Solid	DI Leach	
890-1548-4	SS04	Soluble	Solid	DI Leach	
890-1548-5	SS05	Soluble	Solid	DI Leach	
MB 880-12129/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1547-A-6-J MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1547-A-6-K MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 12200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1548-1	SS01	Soluble	Solid	300.0	12129
890-1548-2	SS02	Soluble	Solid	300.0	12129
890-1548-3	SS03	Soluble	Solid	300.0	12129
890-1548-4	SS04	Soluble	Solid	300.0	12129
890-1548-5	SS05	Soluble	Solid	300.0	12129
MB 880-12129/1-A	Method Blank	Soluble	Solid	300.0	12129
LCS 880-12129/2-A	Lab Control Sample	Soluble	Solid	300.0	12129
LCSD 880-12129/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	12129
890-1547-A-6-J MS	Matrix Spike	Soluble	Solid	300.0	12129
890-1547-A-6-K MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	12129

Client: WSP USA Inc. Job ID: 890-1548-1 Project/Site: PLU 25 BD 127 SDG: 31403236.022.0129

Client Sample ID: SS01 Lab Sample ID: 890-1548-1 Date Collected: 11/05/21 12:34

Matrix: Solid

Date Received: 11/08/21 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12021	11/11/21 12:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12220	11/15/21 12:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:07	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11991	11/11/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11994	11/11/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			12129	11/12/21 12:28	СН	XEN MID
Soluble	Analysis	300.0		5	12200	11/14/21 02:43	CH	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-1548-2

Date Collected: 11/05/21 12:37 **Matrix: Solid**

Date Received: 11/08/21 16:15

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 XEN MID Total/NA Prep 12021 11/11/21 12:48 KL Total/NA 8021B 11/15/21 13:08 XEN MID Analysis 12220 KL Total/NA Total BTEX 12338 11/15/21 14:07 XEN MID Analysis 1 A.I XEN MID Total/NA Analysis 8015 NM 12045 11/11/21 15:24 Total/NA 11/11/21 08:22 XEN MID Prep 8015NM Prep 11991 DM Total/NA Analysis 8015B NM 11994 11/11/21 17:09 AJ XEN MID XEN MID Soluble Leach DI Leach 12129 11/12/21 12:28 CH Soluble Analysis 300.0 10 12200 11/14/21 02:48 CH XEN MID

Lab Sample ID: 890-1548-3 **Client Sample ID: SS03** Date Collected: 11/05/21 12:42 **Matrix: Solid**

Date Received: 11/08/21 16:15

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12021	11/11/21 12:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12220	11/15/21 13:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11991	11/11/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11994	11/11/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		50	12200	11/14/21 03:03	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-1548-4

Date Collected: 11/05/21 12:44 Date Received: 11/08/21 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12021	11/11/21 12:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12220	11/15/21 13:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Job ID: 890-1548-1

SDG: 31403236.022.0129

Project/Site: PLU 25 BD 127 **Client Sample ID: SS04**

Client: WSP USA Inc.

Lab Sample ID: 890-1548-4

Matrix: Solid

Date Collected: 11/05/21 12:44 Date Received: 11/08/21 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM			12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11991	11/11/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11994	11/11/21 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			12129	11/12/21 12:28	СН	XEN MID
Soluble	Analysis	300.0		5	12200	11/14/21 03:07	CH	XEN MID

Client Sample ID: SS05 Lab Sample ID: 890-1548-5

Date Collected: 11/05/21 12:48 **Matrix: Solid**

Date Received: 11/08/21 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12021	11/11/21 12:48	KL	XEN MID
Total/NA	Analysis	8021B		1	12220	11/15/21 14:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	12338	11/15/21 14:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11991	11/11/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11994	11/11/21 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			12129	11/12/21 12:28	CH	XEN MID
Soluble	Analysis	300.0		5	12200	11/14/21 03:12	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1548-1

 Project/Site: PLU 25 BD 127
 SDG: 31403236.022.0129

Laboratory: Eurofins Xenco, Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date	
Texas	NE	NELAP		06-30-22	
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y	
the agency does not of	' '	t the laboratory to not ocium	od by the governing dutienty. The list me	ay include analytes for	
the agency does not of Analysis Method	' '	Matrix	Analyte	ay molade analytes for t	
0 ,	fer certification.	•	, , ,		

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Method Summary

Client: WSP USA Inc. Project/Site: PLU 25 BD 127 Job ID: 890-1548-1

SDG: 31403236.022.0129

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: PLU 25 BD 127 Job ID: 890-1548-1

SDG: 31403236.022.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1548-1	SS01	Solid	11/05/21 12:34	11/08/21 16:15	0.5
890-1548-2	SS02	Solid	11/05/21 12:37	11/08/21 16:15	0.5
890-1548-3	SS03	Solid	11/05/21 12:42	11/08/21 16:15	0.5
890-1548-4	SS04	Solid	11/05/21 12:44	11/08/21 16:15	0.5
890-1548-5	SS05	Solid	11/05/21 12:48	11/08/21 16:15	0.5

Project Manager: Kalei Jennings

Company Name:

WSP USA

Company Name: Bill to: (if different)

XTO Energy, INC. Adrian Baker

Program: UST/PST DRP Brownfields RC

Buperfund

www.xenco.com

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Work Order Comments

Chain of Custody

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) 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

Revised Date 051418 Rev 2018 1											
			D)								
			4					7			
			5 7	21 16	12.8.11	1		14 Del	7()	Mer	resylve
Date/Time	Received by: (Signature)	Relinquished by: (Signature)		Date/Time	Da	re)	Received by: (Signature)	Received t	ure)	by: (Signati	Relinquished by: (Signature)
	enforced unless previously negotiated.		ncurred by the t not analyzed	xpenses in Xenco, bu	osses or e bmitted to	chase order from co ponsibility for any I for each sample sul	ites a valid pur issume any res a charge of \$5	samples constitutes and shall not a each project and	nd relinquishment of for the cost of sampl 00 will be applied to	be liable only the charge of \$75.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Aerice, its armiates and subcomments 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 of Xenco, will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be
			00	20 00	3	וערד מדנד פסוס. פתעתת	וענדייטדנ	alyzed	Circle Method(s) and Metal(s) to be analyzed	oa(s) and N	Circle Methi
4	TI II	Co Cii Ph Mn Mo Ni Se		A 70	_	PKI Texas II	TCI D / SDI D 6	9	200.8 / 6020:	6010 20	1 otal 200.7 / 6010
Sn II V Zn	Mn Mo Ni K Se An SiO2 Na Sr Ti Sn Li V	Ca Cr Ca Cii Ea Bh Ma	B	, ∥	≥	n	Ш	07	000		7-1-1-200 7
				-	\perp						
Discrete			×	×	×	0.5'	12:48	11/05/21	S	SS05	SS
Discrete			×	×	×	0.5'	12:44	11/05/21	S	SS04	SS
Discrete			×	×	1 ×	0.5'	12;42	11/05/21	S	SS03	SS
Discrete			×	×	×	0.5'	12:37	11/05/21	S	SS02	SS
Discrete			×	×	×	0.5'	12:34	11/05/21	S	SS01	S
Sample Comments 21	Sa		Chlorid	BTEX (Number	Depth	Time Sampled	Date Sampled	Matrix	Sample Identification	Sample Id
lab, if received by 4:30pm	_		le (Ef	_			Total Containers:	Total	Yes No NA	_	Sample Custody Seals
the		890-1548 Chain of Custody	PA 3	_		7.8-	Correction Factor:	Corre	Yes No (N/A)		Cooler Custody Seals:
			00.0	021)	ntai		00	7	Yes No		Received Intact:
))		iner		Thermometer ID	Ţ	6/1.4	-	Temperature (°C):
					\$	N o	Wet Ice: /Yes	Wes No	Temp Blank:	CEIPT	SAMPLE RECEIPT
	-					Date:	Due Date		Benner	Payton Benner	Sampler's Name:
			_				Rush:				P.O. Number:
AFE: DD.2017.03804.CAP.CMP.01	AFE: DD.:					R 7	Routine	2.0129	31403236.022.0129		Project Number:
Work Order Notes	W	ANALYSIS REQUEST				Turn Around	Tu		BD 127	PLU 25 BD 127	Project Name:
Offier.	Deliverables: EDD [_] ADAPT [_]		ton.benne	om, pay	@wsp.c	Email: kalei.jennings@wsp.com, payton.benner@wsp.com	Email:		-2503	817-683-2503	Phone:
RRP _pvel IV	Level PST/UST		Carlsbad, New Mexico 88220	Isbad, N	Car	City, State ZIP:			Midland, Texas 79705	Midland,	City, State ZIP:
] : :		Sta	en St	3104 E Green St	310	Address:		g 1, Unit 222	3300 North A Street Bldg 1, Unit 222	3300 No	Address:

Work Order No:

Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing America

TX 79701 Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. SS04 (890-1548-4) SS01 (890-1548-1) SS03 (890-1548-3) SS02 (890-1548-2) Sample Identification - Client ID (Lab ID) Project Name PLU 25 BD 127 ossible Hazard Identification SS05 (890-1548-5) 432-704-5440(Tel) Midland Carlsbad NM 88220 Phone. 575-988-3199 Fax. 575-988-3199 elinquished by: eliverable Requested | II III IV Other (specify) 211 W Florida Ave Custody Seals Intact.

∆ Yes ∆ No mpty Kit Relinquished by urofins Xenco linquished by hipping/Receiving lient Information (Sub Contract Lab) Custody Seal No Project # 89000004 Primary Deliverable Rank 2 Date/Time Due Date Requested 11/12/2021 FAT Requested (days) 11/5/21 11/5/21 11/5/21 11/5/21 11/5/21 Date Mountain 12 48 Mountain 12 44 Mountain 12 42 Mountain 12 37 Mountain Sample 12 34 Time (C=comp, G=grab Sample Preservation Code: Type Company Matrix Solid Solid Solid Solid Solid E-Mail Kramer Jessica essica.kramer@eurofinset.com lime. Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Description To Cleart Disposal But I sh Arrhive For Month 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × × × × × Return To Client × × × 8015MOD Calc × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested Total_BTEX_GCV × × × Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Nethod of Shipment Date/Time Ō Archive For * **(49**) **Total Number of containers** S ... (D D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA A HCL
B NaOH
C - Zn Acetate Page. Page 1 of 1 COC No 890-500 1 Preservation Codes 890-1548-1 HCL NaOH Special Instructions/Note N None
O ASHAO2
P NaZO4S
Q NaZSO3
R NaZSC3
S HZSO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Months E

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1548-1

SDG Number: 31403236.022.0129

Login Number: 1548 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1548-1

SDG Number: 31403236.022.0129

List Source: Eurofins Xenco, Midland

List Creation: 11/10/21 11:22 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1548

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	3.8/3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1773-1

Laboratory SDG: 31403236.022.0129 TASK09.02

Client Project/Site: PLU 25 BD 127 H

Revision: 1

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 2/7/2022 9:54:37 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/16/2022 4:19:48 PM

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.

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Client: WSP USA Inc. Project/Site: PLU 25 BD 127 H Laboratory Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H

SDG: 31403236.022.0129 TASK09.02

Qualifiers

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

GC Semi VOA

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

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)

110	140t Detected at the reporting limit (of MDE of EDE if shown)
NEG	Negative / Absent

PU3	Positive / Present
PQL	Practical Quantitation Limit
DDEC	Dreeumptive

QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

DI	Reporting Limit or Requested Limit (Radiochemistry)
ΓL	Reporting Limit of Requested Limit (Radiochemistry)

		•	•	• •	
PDD	Relative Percei	nt Difference s	measure of the	relative difference	hetween two noints

I I D	Molative i creent Dilicience, a measu
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127 H

Job ID: 890-1773-1

SDG: 31403236.022.0129 TASK09.02

Job ID: 890-1773-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1773-1

REVISION

The report being provided is a revision of the original report sent on 1/4/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change.

Report revision history

Receipt

The samples were received on 12/28/2021 3:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-1773-1), PH02 (890-1773-3), PH02A (890-1773-4), PH03 (890-1773-5), PH03A (890-1773-6), PH04 (890-1773-7), PH04A (890-1773-8), PH05 (890-1773-9), PH05A (890-1773-10), SS09 (890-1773-11) and SS10 (890-1773-12). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15861 and analytical batch 880-15872 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad 2/7/2022 (Rev. 1)

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH01 Lab Sample ID: 890-1773-1

Date Collected: 12/28/21 09:05 Matrix: Solid Date Received: 12/28/21 15:25

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 06:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			12/30/21 14:12	01/02/22 06:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/30/21 14:12	01/02/22 06:14	1
Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	C)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/22 15:21	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	<49.9	U F1 F2	49.9	mg/Kg		01/03/22 09:15	01/03/22 12:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		01/03/22 09:15	01/03/22 12:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			01/03/22 09:15	01/03/22 12:01	1
o-Terphenyl	135	S1+	70 - 130			01/03/22 09:15	01/03/22 12:01	1
-		mbur Calu	ıbla					
Method: 300.0 - Anions, Ion C	hromatogra	ipny - Soiu	ible					
Method: 300.0 - Anions, Ion C Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH01A Lab Sample ID: 890-1773-2 Date Collected: 12/28/21 09:07 Matrix: Solid

Date Received: 12/28/21 15:25

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/02/22 06:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			12/30/21 14:12	01/02/22 06:41	

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1
Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

TOJECT/SILE: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH01A

Date Collected: 12/28/21 09:07

Date Received: 12/28/21 15:25

Lab Sample ID: 890-1773-2

Matrix: Solid

Sample Depth: 2

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	100	70 - 130	12/30/21 14:12	01/02/22 06:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400	ma/Ko	1		01/04/22 15:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/04/22 15:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 13:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 13:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil
1-Chlorooctane	112		70 - 130	01/03/22 09:15	01/03/22 13:07	
o-Terphenyl	129		70 - 130	01/03/22 09:15	01/03/22 13:07	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		4.97	mg/Kg			01/03/22 18:30	1

Client Sample ID: PH02

Date Collected: 12/28/21 09:15

Lab Sample ID: 890-1773-3

Matrix: Solid

Date Collected: 12/28/21 09:15 Date Received: 12/28/21 15:25

Sample Depth: 1

Mothod: 9021B	Volatila	Organic	Compounds	(CC)

Welliou. 602 ID - Volatile O	rgariic Compo	unus (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
Toluene	< 0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
Ethylbenzene	< 0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
o-Xylene	< 0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/30/21 14:12	01/02/22 07:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			12/30/21 14:12	01/02/22 07:08	1
1.4-Difluorobenzene (Surr)	99		70 - 130			12/30/21 14:12	01/02/22 07:08	1

lothod:	Total	DTEV	Total	DTEV	Calculation	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			01/04/22 15:22	

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		01/04/22 15:21	1

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2

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4

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12

Date Received: 12/28/21 15:25

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02

Project/Site: PLU 25 BD 127 H

Client Sample ID: PH02 Lab Sample ID: 890-1773-3 Date Collected: 12/28/21 09:15 **Matrix: Solid**

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 13:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			01/03/22 09:15	01/03/22 13:28	1
o-Terphenyl	145	S1+	70 - 130			01/03/22 09:15	01/03/22 13:28	1

Analyte Result Qualifier Unit RL D Prepared Analyzed Dil Fac 25.1 01/03/22 18:42 Chloride 1590 mg/Kg

Client Sample ID: PH02A Lab Sample ID: 890-1773-4 Date Collected: 12/28/21 09:01 **Matrix: Solid**

Date Received: 12/28/21 15:25

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
Toluene	< 0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
Ethylbenzene	< 0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/30/21 14:12	01/02/22 07:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			12/30/21 14:12	01/02/22 07:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/30/21 14:12	01/02/22 07:35	1
Method: 8015 NM - Diesel Rar			•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/22 15:21	1
- Method: 8015B NM - Diesel R	ange Organi	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		01/03/22 09:15	01/03/22 13:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 13:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			01/03/22 09:15	01/03/22 13:49	

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70 - 130

138 S1+

o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH02A

Lab Sample ID: 890-1773-4 Date Collected: 12/28/21 09:01 Matrix: Solid Date Received: 12/28/21 15:25

Sample Depth: 4

Method: 300.0 - Anions, Ion Chro	matogra	phy - Solu <mark>l</mark>	ble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.98	mg/Kg			01/03/22 19:18	1

Client Sample ID: PH03 Lab Sample ID: 890-1773-5 Matrix: Solid

Date Collected: 12/28/21 09:28 Date Received: 12/28/21 15:25

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/30/21 14:12	01/02/22 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/30/21 14:12	01/02/22 08:02	1
1,4-Difluorobenzene (Surr)	87		70 - 130			12/30/21 14:12	01/02/22 08:02	1

Method: Total BTEX - Total BTI	EX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/04/22 15:22	1

Method: 8015 NW - Diesei Range	Organic	S (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Rang	e Organ	ics (DRO) (G	C)					

Method: 8015B NM - Diesel R Analyte	0	CS (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:09	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			01/03/22 09:15	01/03/22 14:09	1
o-Terphenyl	140	S1+	70 - 130			01/03/22 09:15	01/03/22 14:09	1

Method: 300.0 - Anions, Ion Ch	nromatograph	y - Soluble					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4210	25.3	mg/Kg			01/03/22 19:30	5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH03A Lab Sample ID: 890-1773-6

Date Collected: 12/28/21 09:31 Matrix: Solid Date Received: 12/28/21 15:25

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			01/03/22 10:00	01/04/22 10:22	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/03/22 10:00	01/04/22 10:22	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Rai	_		•					
	_		•	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	_	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/04/22 15:21	
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0 (GC)		<u>D</u>	Prepared	01/04/22 15:21 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel R	Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0	mg/Kg	_ =	· ·	01/04/22 15:21 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <50.0	Qualifier U ics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg	_ =	Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Result <50.0	Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 14:30	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 14:30 01/03/22 14:30	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 ange Organ Result <50.0 <50.0 <50.0	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 14:30 01/03/22 14:30 01/03/22 14:30	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 14:30 01/03/22 14:30 01/03/22 14:30 Analyzed	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U Comparison Qualifier U U Qualifier S1+	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 14:30 01/03/22 14:30 01/03/22 14:30 Analyzed 01/03/22 14:30	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Comparison Qualifier U U Qualifier S1+	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 14:30 01/03/22 14:30 01/03/22 14:30 Analyzed 01/03/22 14:30	Dil Fac

Client Sample ID: PH04 Lab Sample ID: 890-1773-7 Date Collected: 12/28/21 10:24 Matrix: Solid

Date Received: 12/28/21 15:25

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 10:00	01/04/22 10:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130			01/03/22 10:00	01/04/22 10:49	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1

Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH04 Lab Sample ID: 890-1773-7

Date Collected: 12/28/21 10:24 **Matrix: Solid** Date Received: 12/28/21 15:25

Sample Depth: 1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyze	d Dil Fac
1 4-Difluorobenzene (Surr)	98	70 - 130	01/03/22 10:00 01/04/22 10	7.491

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400	ma/Ko	1		01/04/22 15:22	1

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

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			01/04/22 15:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125	70 - 130	01/03/22 09:15	01/03/22 14:52	1
o-Terphenyl	146 S1+	70 - 130	01/03/22 09:15	01/03/22 14:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520		25.0	mg/Kg			01/03/22 19:53	5

Client Sample ID: PH04A Lab Sample ID: 890-1773-8 **Matrix: Solid**

Date Collected: 12/28/21 10:29 Date Received: 12/28/21 15:25

Sample Depth: 4

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

Welliou. 602 ID - Volatile O	rgariic Compo	unus (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
Toluene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/03/22 10:00	01/04/22 11:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130			01/03/22 10:00	01/04/22 11:15	1
1.4-Difluorobenzene (Surr)	112		70 - 130			01/03/22 10:00	01/04/22 11:15	1

Mothodi	Total DTEV	- Total RTFX	Coloulation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			01/04/22 15:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		01/04/22 15:21	1

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH04A Lab Sample ID: 890-1773-8

Matrix: Solid Date Collected: 12/28/21 10:29 Date Received: 12/28/21 15:25

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 15:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 15:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			01/03/22 09:15	01/03/22 15:13	1
o-Terphenyl	145	S1+	70 - 130			01/03/22 09:15	01/03/22 15:13	1

Client Sample ID: PH05 Lab Sample ID: 890-1773-9 Date Collected: 12/28/21 10:35 **Matrix: Solid**

49.8

293

mg/Kg

Date Received: 12/28/21 15:25

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 11:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130			01/03/22 10:00	01/04/22 11:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130			01/03/22 10:00	01/04/22 11:42	1
Method: Total BTEX - Total B1	EX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.9		50.0	mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 15:36	1
Diesel Range Organics (Over C10-C28)	62.9		50.0	mg/Kg		01/03/22 09:15	01/03/22 15:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			01/03/22 09:15	01/03/22 15:36	1

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01/03/22 20:05

Client: WSP USA Inc. Job ID: 890-1773-1
Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH05 Lab Sample ID: 890-1773-9

Date Collected: 12/28/21 10:35

Matrix: Solid

Date Received: 12/28/21 15:25

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	838		25.2	mg/Kg			01/03/22 20:17	5

Client Sample ID: PH05A

Date Collected: 12/28/21 10:37

Lab Sample ID: 890-1773-10

Matrix: Solid

Date Collected: 12/28/21 10:37 Date Received: 12/28/21 15:25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

62.5

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 12:09	
Toluene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 12:09	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 12:09	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 12:09	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 12:09	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 12:09	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130			01/03/22 10:00	01/04/22 12:09	
1,4-Difluorobenzene (Surr)	111		70 - 130			01/03/22 10:00	01/04/22 12:09	
Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/04/22 15:22	
-								
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Method: 8015 NM - Diesel Rar Analyte	•	s (DRO) (O	GC)	Unit	D	Prepared	Analyzed	Dil Fa
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/04/22 15:21	Dil Fa
Analyte	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		D D	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics	Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	01/04/22 15:21	
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result <50.0	Qualifier U ics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 ange Organ Result <50.0	Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 15:57	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 15:57 01/03/22 15:57	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 ange Organ Result <50.0 <50.0 <50.0	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/03/22 09:15 01/03/22 09:15	Analyzed 01/03/22 15:57 01/03/22 15:57 01/03/22 15:57	Dil Fa

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Analyzed

01/03/22 20:53

Dil Fac

RL

4.98

Unit

mg/Kg

D

Prepared

Analyte

Chloride

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Client Sample ID: SS09 Lab Sample ID: 890-1773-11

Date Collected: 12/28/21 12:26 **Matrix: Solid** Date Received: 12/28/21 15:25

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
Toluene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/03/22 10:00	01/04/22 12:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			01/03/22 10:00	01/04/22 12:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/03/22 10:00	01/04/22 12:35	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	SC)					
	•	s (DRO) (G Qualifier	C)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	•	Unit mg/Kg	D	Prepared	Analyzed 01/04/22 15:21	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH : Method: 8015B NM - Diesel R	Result <49.9	Qualifier U	RL 49.9 (GC)	mg/Kg	_ =	· ·	01/04/22 15:21	1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u>D</u>	Prepared	01/04/22 15:21 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R	Result <49.9	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	_ =	· ·	01/04/22 15:21	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	_ =	Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ange Organ Result <49.9	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 16:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 16:38 01/03/22 16:38	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15	Analyzed 01/03/22 16:38 01/03/22 16:38 01/03/22 16:38	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 16:38 01/03/22 16:38 01/03/22 16:38 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U ics (DRO) Qualifier U U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 16:38 01/03/22 16:38 01/03/22 16:38 Analyzed 01/03/22 16:38	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 ange Organ Result <49.9 <49.9 <49.9 %Recovery 125 138 Chromatogra	Qualifier U ics (DRO) Qualifier U U Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	Analyzed 01/03/22 16:38 01/03/22 16:38 01/03/22 16:38 Analyzed 01/03/22 16:38	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SS10 Lab Sample ID: 890-1773-12 **Matrix: Solid**

Date Collected: 12/28/21 12:28 Date Received: 12/28/21 15:25

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:00	01/04/22 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			01/03/22 10:00	01/04/22 13:01	1

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1773-1

 Project/Site: PLU 25 BD 127 H
 SDG: 31403236.022.0129 TASK09.02

Client Sample ID: SS10 Lab Sample ID: 890-1773-12

Date Collected: 12/28/21 12:28
Date Received: 12/28/21 15:25

<4.97 U

Sample Depth: 0.25

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130			01/03/22 10:00	01/04/22 13:01	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/22 15:21	1
nalyte	Result	Qualifier	RL	Unit Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 16:59	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 16:59	1
C10-C28)				0 0				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 09:15	01/03/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
ourroyate	125		70 - 130			01/03/22 09:15	01/03/22 16:59	1
1-Chlorooctane	125							

4.97

mg/Kg

01/03/22 21:40

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Accepta	ance Limits)
		BFB1	OFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
880-9746-A-6-G MS	Matrix Spike	127	111	
880-9746-A-6-H MSD	Matrix Spike Duplicate	127	106	
890-1756-A-3-D MS	Matrix Spike	137 S1+	89	
890-1756-A-3-E MSD	Matrix Spike Duplicate	168 S1+	101	
890-1773-1	PH01	142 S1+	101	
890-1773-2	PH01A	143 S1+	100	
890-1773-3	PH02	146 S1+	99	
890-1773-4	PH02A	146 S1+	100	
890-1773-5	PH03	113	87	
890-1773-6	PH03A	161 S1+	102	
890-1773-7	PH04	180 S1+	98	
890-1773-8	PH04A	179 S1+	112	
890-1773-9	PH05	183 S1+	102	
890-1773-10	PH05A	196 S1+	111	
890-1773-11	SS09	156 S1+	99	
890-1773-12	SS10	155 S1+	103	
LCS 880-15802/1-A	Lab Control Sample	170 S1+	116	
LCS 880-15812/1-A	Lab Control Sample	121	0 S1-	
LCSD 880-15812/2-A	Lab Control Sample Dup	143 S1+	117	
MB 880-15709/5-A	Method Blank	93	88	
MB 880-15802/5-A	Method Blank	105	101	
MB 880-15812/5-A	Method Blank	90	87	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			Percent Surrogate R	Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID			
LCSD 880-15802/2-A	Lab Control Sample Dup			
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			_
DFBZ = 1,4-Difluorobe	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

-			Perce	ent Surrogate Recovery (Acc
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1773-1	PH01	120	135 S1+	
890-1773-1 MS	PH01	113	118	
890-1773-1 MSD	PH01	104	110	
890-1773-2	PH01A	112	129	
890-1773-3	PH02	126	145 S1+	
890-1773-4	PH02A	120	138 S1+	

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (A	cceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-1773-5	PH03	122	40 S1+	
890-1773-6	PH03A	120	41 S1+	
890-1773-7	PH04	125	46 S1+	
890-1773-8	PH04A	124	45 S1+	
890-1773-9	PH05	122	43 S1+	
890-1773-10	PH05A	123	43 S1+	
890-1773-11	SS09	125	38 S1+	
890-1773-12	SS10	125	39 S1+	
LCS 880-15861/2-A	Lab Control Sample	116	111	
LCSD 880-15861/3-A	Lab Control Sample Dup	107	102	
MB 880-15861/1-A	Method Blank	96	120	
Surrogate Legend				

OTPH = o-Terphenyl

Client: WSP USA Inc.

Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02

Project/Site: PLU 25 BD 127 H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15709/5-A

Matrix: Solid

Analysis Batch: 15877

Client	Samp	ole	ID:	Me	eth	od	В	lar	١k
		—		-		-	4.5	1/81	

Prep Type: Total/NA

Prep Batch: 15709

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 09:02	01/03/22 13:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 09:02	01/03/22 13:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/03/22 09:02	01/03/22 13:34	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/03/22 09:02	01/03/22 13:34	1

Lab Sample ID: MB 880-15802/5-A **Client Sample ID: Method Blank** Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 15877 Prep Batch: 15802

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 03:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 03:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 03:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 10:00	01/04/22 03:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:00	01/04/22 03:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/03/22 10:00	01/04/22 03:10	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	<u>01/03/22 10:00</u> <u>01/04/22 03:10</u>	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/03/22 10:00 01/04/22 03:10	1

Lab Sample ID: LCS 880-15802/1-A

Matrix: Solid

Analysis Batch: 15877

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

Prep Batch: 15802

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07559		mg/Kg		76	70 - 130	
Toluene	0.100	0.07239		mg/Kg		72	70 - 130	
Ethylbenzene	0.100	0.08076		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1616		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08324		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-15802/2-A

Matrix: Solid

Analysis Batch: 15877

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

D %Rec

Prep Batch: 15802

%Rec. **RPD** Limits RPD Limit

Added Result Qualifier Unit Analyte Benzene 0.100 0.07218 mg/Kg

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Spike

LCSD LCSD

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02 Project/Site: PLU 25 BD 127 H

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

Lab Sample ID: LCSD 880-15802/2-A

Matrix: Solid

Analysis Batch: 15877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15802

LCSD LCSD **RPD** Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0 100 0.08053 mg/Kg

Ethylbenzene 0.100 0.07951 mg/Kg 0.200 0.1599 m-Xylene & p-Xylene mg/Kg o-Xylene 0.100 0.08145 mg/Kg

LCSD LCSD

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-1756-A-3-D MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 15877

Prep Type: Total/NA

Prep Batch: 15802

mg/Kg

mq/Kq

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier %Rec Limits **Analyte** Unit Benzene <0.00198 UF2 F1 0.0998 0.02064 F1 21 70 - 130 mg/Kg Toluene <0.00198 U F2 F1 0.0998 0.01910 F1 mg/Kg 19 70 - 130 Ethylbenzene <0.00198 U F2 F1 0.0998 0.01619 F1 mq/Kq 16 70 - 130 0.200 0.03186 F1 m-Xylene & p-Xylene <0.00396 U F2 F1 mg/Kg 16 70 - 130o-Xylene <0.00198 U F2 F1 0.0998 0.01958 F1 mg/Kg 20 70 - 130

MS MS

<0.00396 U F2 F1

<0.00198 U F2 F1

Surrogate %Recovery Qualifier Limits S1+ 70 - 130 4-Bromofluorobenzene (Surr) 137 1,4-Difluorobenzene (Surr) 89 70 - 130

Lab Sample ID: 890-1756-A-3-E MSD

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 15877

Client Sample ID: Matrix Spike Duplicate

47

53

Prep Type: Total/NA Prep Batch: 15802

99

93

Spike MSD MSD %Rec. **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 70 - 130 Benzene <0.00198 U F2 F1 0.101 0.05926 F2 F1 mg/Kg 59 97 35 Toluene <0.00198 U F2 F1 0.101 0.05203 F2 F1 mg/Kg 52 70 - 130 93 35 Ethylbenzene <0.00198 U F2 F1 0.101 0.04861 F2 F1 mg/Kg 48 70 - 130 100 35

0.09437 F2 F1

0.05331 F2 F1

0.202

0.101

MSD MSD

Surrogate Qualifier I imits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) S1+ 168 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid

Analysis Batch: 15844

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

70 - 130

70 - 130

Prep Batch: 15812

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 12/30/21 14:12 01/01/22 21:46 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 12/30/21 14:12 01/01/22 21:46 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/30/21 14:12 01/01/22 21:46 <0.00400 U 0.00400 12/30/21 14:12 01/01/22 21:46 m-Xylene & p-Xylene mg/Kg

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35

35

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

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

MB MB

%Recovery Qualifier

90

87

Lab Sample ID: MB 880-15812/5-A **Matrix: Solid**

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

Prep Batch: 15812

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
	МВ	MB						

Limits

70 - 130

70 - 130

Prepared Analyzed Dil Fac 12/30/21 14:12 01/01/22 21:46 12/30/21 14:12 01/01/22 21:46

Lab Sample ID: LCS 880-15812/1-A **Matrix: Solid**

Analysis Batch: 15844

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Surrogate

Analysis Batch: 15844

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

Prep Batch: 15812

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09353		mg/Kg		94	70 - 130	
Toluene	0.100	0.08852		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.07679		mg/Kg		77	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	0 S1-	70 - 130

Lab Sample ID: LCSD 880-15812/2-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15812

Analysis Baton: 10044							I I CP L	outon.	.0012
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07182		mg/Kg		72	70 - 130	26	35
Toluene	0.100	0.08616		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.08216		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.08149		mg/Kg		81	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: 880-9746-A-6-G MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 15844

Prep Type: Total/NA Prep Batch: 15812

								i ieb De	11011. 13012
Sample	Sample	Spike	MS	MS				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00202	U F1	0.0994	0.06266	F1	mg/Kg		63	70 - 130	
<0.00202	U F2 F1	0.0994	0.06389	F1	mg/Kg		64	70 - 130	
<0.00202	U F1	0.0994	0.06876	F1	mg/Kg		69	70 - 130	
< 0.00403	U	0.199	0.1390		mg/Kg		70	70 - 130	
<0.00202	U F1	0.0994	0.06885	F1	mg/Kg		69	70 - 130	
	Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00403	Sample Sample Result Qualifier U F1	Result Qualifier Added	Result Qualifier Added Result <0.00202	Result Qualifier Added Result Qualifier <0.00202	Result Qualifier Added Result Qualifier Unit <0.00202	Result Qualifier Added Result Qualifier Unit D <0.00202	Result Qualifier Added Result Qualifier Unit D %Rec <0.00202	Sample Result Result Qualifier Spike Added Added Result Qualifier MS MS WRec. <0.00202 U F1

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127 H

Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02

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

Lab Sample ID: 880-9746-A-6-G MS

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15812

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-9746-A-6-H MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 15844

Prep Type: Total/NA

Prep Batch: 15812

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_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.06980		mg/Kg		70	70 - 130	11	35
Toluene	<0.00202	U F2 F1	0.0998	0.007273	F2 F1	mg/Kg		7	70 - 130	159	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06958		mg/Kg		70	70 - 130	1	35
m-Xylene & p-Xylene	< 0.00403	U	0.200	0.1399		mg/Kg		70	70 - 130	1	35
o-Xylene	<0.00202	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130	0	35

MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 127 70 - 130

106 1,4-Difluorobenzene (Surr) 70 - 130

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

Lab Sample ID: MB 880-15861/1-A **Client Sample ID: Method Blank Matrix: Solid**

RL

50.0

50.0

50.0

Unit

mg/Kg

mg/Kg

mg/Kg

Analysis Batch: 15872

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

(GRO)-C6-C10

Prep Type: Total/NA Prep Batch: 15861

Prepared Analyzed Dil Fac 01/03/22 09:15 01/03/22 10:57 01/03/22 09:15 01/03/22 10:57

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 96 70 - 130 01/03/22 09:15 01/03/22 10:57 o-Terphenyl 120 70 - 130 01/03/22 09:15 01/03/22 10:57

Lab Sample ID: LCS 880-15861/2-A

мв мв

<50.0 U

<50.0 U

<50.0 U

Result Qualifier

Matrix: Solid

Analysis Batch: 15872

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

01/03/22 09:15 01/03/22 10:57

Prep Batch: 15861

LCS LCS Spike %Rec. Added Limits Analyte Result Qualifier Unit D %Rec Gasoline Range Organics 1000 1059 106 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1210 mg/Kg 121 70 - 130 C10-C28)

LCS LCS

%Recovery Qualifier I imits Surrogate 1-Chlorooctane 116 70 - 130 o-Terphenyl 111 70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 SDG: 31403236.022.0129 TASK09.02 Project/Site: PLU 25 BD 127 H

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

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-15861/3-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 15872** Prep Batch: 15861 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Gasoline Range Organics 1000 985.7 mg/Kg 99 70 - 130 7 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1132 70 - 130 mg/Kg 113 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 107 70 - 130 o-Terphenyl 102

Client Sample ID: PH01 Lab Sample ID: 890-1773-1 MS **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15872 Prep Batch: 15861

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit D Gasoline Range Organics <49.9 U F1 F2 996 796.6 80 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 996 499.7 F1 mg/Kg 47 70 - 130 C10-C28)

MS MS Qualifier Surrogate %Recovery Limits 1-Chlorooctane 113 70 - 130 o-Terphenyl 118 70 - 130

Lab Sample ID: 890-1773-1 MSD

Matrix: Solid

Analysis Batch: 15872 Prep Batch: 15861

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U F1 F2 999 465.0 F1 F2 47 Gasoline Range Organics 70 - 130 53 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 999 469.3 F1 44 70 - 130 6 20 mg/Kg

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 110 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15803/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 01/03/22 16:56

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Client Sample ID: PH01

Prep Type: Total/NA

Chloride

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

90 - 110

98

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-15803/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

245.5

mg/Kg

mg/Kg

Analysis Batch: 15920 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit Limits D %Rec

250

Lab Sample ID: LCSD 880-15803/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 15920 Spike LCSD LCSD %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 239.6 90 - 110 mg/Kg 96 2

Lab Sample ID: 890-1773-9 MS **Client Sample ID: PH05**

Matrix: Solid Prep Type: Soluble Analysis Batch: 15920

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 838 1260 1988 91

Lab Sample ID: 890-1773-9 MSD **Client Sample ID: PH05**

Matrix: Solid Prep Type: Soluble

Analysis Batch: 15920

Spike MSD MSD %Rec. **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 838 1260 1994 mg/Kg 92 90 - 110

RPD

Job ID: 890-1773-1 Client: WSP USA Inc. Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

GC VOA

Prep Batch: 15709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-15709/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 15802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-6	PH03A	Total/NA	Solid	5035	
890-1773-7	PH04	Total/NA	Solid	5035	
890-1773-8	PH04A	Total/NA	Solid	5035	
890-1773-9	PH05	Total/NA	Solid	5035	
890-1773-10	PH05A	Total/NA	Solid	5035	
890-1773-11	SS09	Total/NA	Solid	5035	
890-1773-12	SS10	Total/NA	Solid	5035	
MB 880-15802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1756-A-3-D MS	Matrix Spike	Total/NA	Solid	5035	
890-1756-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	5035	
890-1773-2	PH01A	Total/NA	Solid	5035	
890-1773-3	PH02	Total/NA	Solid	5035	
890-1773-4	PH02A	Total/NA	Solid	5035	
890-1773-5	PH03	Total/NA	Solid	5035	
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	8021B	15812
890-1773-2	PH01A	Total/NA	Solid	8021B	15812
890-1773-3	PH02	Total/NA	Solid	8021B	15812
890-1773-4	PH02A	Total/NA	Solid	8021B	15812
890-1773-5	PH03	Total/NA	Solid	8021B	15812
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	8021B	15812
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15812
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	8021B	15812
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15812

Analysis Batch: 15877

Lab Sample ID 890-1773-6	Client Sample ID PH03A	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 15802
890-1773-7	PH04	Total/NA	Solid	8021B	15802
890-1773-8	PH04A	Total/NA	Solid	8021B	15802
890-1773-9	PH05	Total/NA	Solid	8021B	15802
890-1773-10	PH05A	Total/NA	Solid	8021B	15802
890-1773-11	SS09	Total/NA	Solid	8021B	15802

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Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

GC VOA (Continued)

Analysis Batch: 15877 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-12	SS10	Total/NA	Solid	8021B	15802
MB 880-15709/5-A	Method Blank	Total/NA	Solid	8021B	15709
MB 880-15802/5-A	Method Blank	Total/NA	Solid	8021B	15802
LCS 880-15802/1-A	Lab Control Sample	Total/NA	Solid	8021B	15802
LCSD 880-15802/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15802
890-1756-A-3-D MS	Matrix Spike	Total/NA	Solid	8021B	15802
890-1756-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15802

Analysis Batch: 16004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	Total BTEX	
890-1773-2	PH01A	Total/NA	Solid	Total BTEX	
890-1773-3	PH02	Total/NA	Solid	Total BTEX	
890-1773-4	PH02A	Total/NA	Solid	Total BTEX	
890-1773-5	PH03	Total/NA	Solid	Total BTEX	
890-1773-6	PH03A	Total/NA	Solid	Total BTEX	
890-1773-7	PH04	Total/NA	Solid	Total BTEX	
890-1773-8	PH04A	Total/NA	Solid	Total BTEX	
890-1773-9	PH05	Total/NA	Solid	Total BTEX	
890-1773-10	PH05A	Total/NA	Solid	Total BTEX	
890-1773-11	SS09	Total/NA	Solid	Total BTEX	
890-1773-12	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	8015NM Prep	
890-1773-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1773-3	PH02	Total/NA	Solid	8015NM Prep	
890-1773-4	PH02A	Total/NA	Solid	8015NM Prep	
890-1773-5	PH03	Total/NA	Solid	8015NM Prep	
890-1773-6	PH03A	Total/NA	Solid	8015NM Prep	
890-1773-7	PH04	Total/NA	Solid	8015NM Prep	
890-1773-8	PH04A	Total/NA	Solid	8015NM Prep	
890-1773-9	PH05	Total/NA	Solid	8015NM Prep	
890-1773-10	PH05A	Total/NA	Solid	8015NM Prep	
890-1773-11	SS09	Total/NA	Solid	8015NM Prep	
890-1773-12	SS10	Total/NA	Solid	8015NM Prep	
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1773-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-1773-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	8015B NM	15861
890-1773-2	PH01A	Total/NA	Solid	8015B NM	15861
890-1773-3	PH02	Total/NA	Solid	8015B NM	15861
890-1773-4	PH02A	Total/NA	Solid	8015B NM	15861

 Client: WSP USA Inc.
 Job ID: 890-1773-1

 Project/Site: PLU 25 BD 127 H
 SDG: 31403236.022.0129 TASK09.02

GC Semi VOA (Continued)

Analysis Batch: 15872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-5	PH03	Total/NA	Solid	8015B NM	15861
890-1773-6	PH03A	Total/NA	Solid	8015B NM	15861
890-1773-7	PH04	Total/NA	Solid	8015B NM	15861
890-1773-8	PH04A	Total/NA	Solid	8015B NM	15861
890-1773-9	PH05	Total/NA	Solid	8015B NM	15861
890-1773-10	PH05A	Total/NA	Solid	8015B NM	15861
890-1773-11	SS09	Total/NA	Solid	8015B NM	15861
890-1773-12	SS10	Total/NA	Solid	8015B NM	15861
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015B NM	15861
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15861
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15861
890-1773-1 MS	PH01	Total/NA	Solid	8015B NM	15861
890-1773-1 MSD	PH01	Total/NA	Solid	8015B NM	15861

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Total/NA	Solid	8015 NM	
890-1773-2	PH01A	Total/NA	Solid	8015 NM	
890-1773-3	PH02	Total/NA	Solid	8015 NM	
890-1773-4	PH02A	Total/NA	Solid	8015 NM	
890-1773-5	PH03	Total/NA	Solid	8015 NM	
890-1773-6	PH03A	Total/NA	Solid	8015 NM	
890-1773-7	PH04	Total/NA	Solid	8015 NM	
890-1773-8	PH04A	Total/NA	Solid	8015 NM	
890-1773-9	PH05	Total/NA	Solid	8015 NM	
890-1773-10	PH05A	Total/NA	Solid	8015 NM	
890-1773-11	SS09	Total/NA	Solid	8015 NM	
890-1773-12	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Soluble	Solid	DI Leach	
890-1773-2	PH01A	Soluble	Solid	DI Leach	
890-1773-3	PH02	Soluble	Solid	DI Leach	
890-1773-4	PH02A	Soluble	Solid	DI Leach	
890-1773-5	PH03	Soluble	Solid	DI Leach	
890-1773-6	PH03A	Soluble	Solid	DI Leach	
890-1773-7	PH04	Soluble	Solid	DI Leach	
890-1773-8	PH04A	Soluble	Solid	DI Leach	
890-1773-9	PH05	Soluble	Solid	DI Leach	
890-1773-10	PH05A	Soluble	Solid	DI Leach	
890-1773-11	SS09	Soluble	Solid	DI Leach	
890-1773-12	SS10	Soluble	Solid	DI Leach	
MB 880-15803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1773-9 MS	PH05	Soluble	Solid	DI Leach	
890-1773-9 MSD	PH05	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-1773-1

 Project/Site: PLU 25 BD 127 H
 SDG: 31403236.022.0129 TASK09.02

HPLC/IC

Analysis Batch: 15920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1773-1	PH01	Soluble	Solid	300.0	15803
890-1773-2	PH01A	Soluble	Solid	300.0	15803
890-1773-3	PH02	Soluble	Solid	300.0	15803
890-1773-4	PH02A	Soluble	Solid	300.0	15803
890-1773-5	PH03	Soluble	Solid	300.0	15803
890-1773-6	PH03A	Soluble	Solid	300.0	15803
890-1773-7	PH04	Soluble	Solid	300.0	15803
890-1773-8	PH04A	Soluble	Solid	300.0	15803
890-1773-9	PH05	Soluble	Solid	300.0	15803
890-1773-10	PH05A	Soluble	Solid	300.0	15803
890-1773-11	SS09	Soluble	Solid	300.0	15803
890-1773-12	SS10	Soluble	Solid	300.0	15803
MB 880-15803/1-A	Method Blank	Soluble	Solid	300.0	15803
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	300.0	15803
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15803
890-1773-9 MS	PH05	Soluble	Solid	300.0	15803
890-1773-9 MSD	PH05	Soluble	Solid	300.0	15803

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Job ID: 890-1773-1

SDG: 31403236.022.0129 TASK09.02

Lab Sample ID: 890-1773-1

Matrix: Solid

Client Sample ID: PH01 Date Collected: 12/28/21 09:05

Project/Site: PLU 25 BD 127 H

Client: WSP USA Inc.

Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 06:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 12:01	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 18:19	CH	XEN MID

Client Sample ID: PH01A Lab Sample ID: 890-1773-2

Date Collected: 12/28/21 09:07 **Matrix: Solid**

Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 06:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 13:07	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 18:30	CH	XEN MID

Client Sample ID: PH02 Lab Sample ID: 890-1773-3 Date Collected: 12/28/21 09:15

Date Received: 12/28/21 15:25

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 07:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		5	15920	01/03/22 18:42	CH	XEN MID

Client Sample ID: PH02A Lab Sample ID: 890-1773-4 Date Collected: 12/28/21 09:01

Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 07:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID

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Matrix: Solid

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Lab Sample ID: 890-1773-4

Matrix: Solid

Client Sample ID: PH02A Date Collected: 12/28/21 09:01 Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 19:18	СН	XEN MID

Lab Sample ID: 890-1773-5

Matrix: Solid

Date Collected: 12/28/21 09:28

Client Sample ID: PH03

Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 08:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 14:09	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		5	15920	01/03/22 19:30	CH	XEN MID

Client Sample ID: PH03A Lab Sample ID: 890-1773-6 **Matrix: Solid**

Date Collected: 12/28/21 09:31 Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 10:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		5	15920	01/03/22 19:41	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1773-7

Date Collected: 12/28/21 10:24 Date Received: 12/28/21 15:25

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 10:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 14:52	AJ	XEN MID

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Matrix: Solid

SDG: 31403236.022.0129 TASK09.02

Client Sample ID: PH04

Lab Sample ID: 890-1773-7

Date Collected: 12/28/21 10:24 Date Received: 12/28/21 15:25

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		5	15920	01/03/22 19:53	CH	XEN MID

Lab Sample ID: 890-1773-8

Client Sample ID: PH04A Date Collected: 12/28/21 10:29 Date Received: 12/28/21 15:25

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 11:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		10	15920	01/03/22 20:05	CH	XEN MID

Client Sample ID: PH05 Lab Sample ID: 890-1773-9

Batch

15920 01/03/22 20:17 CH

Prepared

15803 12/30/21 12:27 CA

15920 01/03/22 20:53 CH

XEN MID

XEN MID

XEN MID

Date Collected: 12/28/21 10:35

Matrix: Solid

Date Received: 12/28/21 15:25

Dilution Batch Batch Batch **Prepared Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 15802 01/03/22 10:00 MR XEN MID Total/NA 8021B 15877 01/04/22 11:42 KL **XEN MID** Analysis 1 Total/NA Analysis Total BTEX 1 16004 01/04/22 15:22 AJ XEN MID Total/NA Analysis 8015 NM 1 15912 01/04/22 15:21 AJ **XEN MID** Total/NA Prep 8015NM Prep 15861 01/03/22 09:15 DM XEN MID Total/NA Analysis 8015B NM 15872 01/03/22 15:36 AJ XEN MID 1 Soluble XEN MID Leach DI Leach 15803 12/30/21 12:27 CA

Client Sample ID: PH05A Lab Sample ID: 890-1773-10 Date Collected: 12/28/21 10:37 Matrix: Solid

Dilution

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Date Received: 12/28/21 15:25

Analysis

Batch

Leach

Analysis

300.0

Batch

DI Leach

300.0

Soluble

Soluble

Soluble

Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 12:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 15:57	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1773-1 Project/Site: PLU 25 BD 127 H SDG: 31403236.022.0129 TASK09.02

Lab Sample ID: 890-1773-11

Client Sample ID: SS09 Date Collected: 12/28/21 12:26 **Matrix: Solid** Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 12:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 21:05	CH	XEN MID

Client Sample ID: SS10 Lab Sample ID: 890-1773-12 Date Collected: 12/28/21 12:28 **Matrix: Solid**

Date Received: 12/28/21 15:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15802	01/03/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1	15877	01/04/22 13:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 21:40	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1773-1

 Project/Site: PLU 25 BD 127 H
 SDG: 31403236.022.0129 TASK09.02

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte	are included in this rene	art but the laboratory is r	and contified by the devenies outbority	This list may include analytes for u
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not	offer certification.	•		This list may include analytes for w

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Method Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127 H

Job ID: 890-1773-1

SDG: 31403236.022.0129 TASK09.02

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127 H

Job ID: 890-1773-1

SDG: 31403236.022.0129 TASK09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1773-1	PH01	Solid	12/28/21 09:05	12/28/21 15:25	1
890-1773-2	PH01A	Solid	12/28/21 09:07	12/28/21 15:25	2
890-1773-3	PH02	Solid	12/28/21 09:15	12/28/21 15:25	1
890-1773-4	PH02A	Solid	12/28/21 09:01	12/28/21 15:25	4
890-1773-5	PH03	Solid	12/28/21 09:28	12/28/21 15:25	1
890-1773-6	PH03A	Solid	12/28/21 09:31	12/28/21 15:25	2
890-1773-7	PH04	Solid	12/28/21 10:24	12/28/21 15:25	1
890-1773-8	PH04A	Solid	12/28/21 10:29	12/28/21 15:25	4
890-1773-9	PH05	Solid	12/28/21 10:35	12/28/21 15:25	1
890-1773-10	PH05A	Solid	12/28/21 10:37	12/28/21 15:25	2
890-1773-11	SS09	Solid	12/28/21 12:26	12/28/21 15:25	0.25
890-1773-12	SS10	Solid	12/28/21 12:28	12/28/21 15:25	0.25

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MORATORIES

Project Manager: Company Name:

WSP USA Kalei Jennings

3300 North A Street Building 1, unit 222

3104 E. Green Street XTO Energy, INC

Program: UST/PST State of Project:

☐RP ☐rownfields ☐RC Work Order Comments

¶perfund

Bill to: (if different) Company Name:

Adrian Baker

13

Chain of Custody

Work Order No:

www.xenco.com

⊃age_

of

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) 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

	Revised Date 051418 Rev. 2018 1													
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	Date/Time	Received by: (Signature)	Recei	y: (Signature)	Relinquished by:		Date/Tim9	Dai		у: (Signature)	Received by:	ure)	oy: (Signati	Relinquished by: (Signature)
		itions	It assigns standard terms and conditions e due to circumstances beyond the contro forced unless previously negotiated.	rs. It assigns standa s are due to circumst e enforced unless pre	es and subcontractor e client if such losses d. These terms will be	o, its affiliat curred by the not analyzed	ny to Xenc penses inc enco, but	nt companses or expitted to X	se order from clients in the second s	ites a valid purcha ssume any respon a charge of \$5 for	samples constitus and shall not a	nd relinquishment of or the cost of sample 00 will be applied to e	is document ar be liable only for charge of \$75.0	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.
	1631 / 245.1 / 7470 / 7471 : Hg		Ag TI U	Mn Mo Ni Se	Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U		As Ba	A Sb	TCLP / SPLP 6010: 8RCRA	TCLP / SPLP		Circle Method(s) and Metal(s) to be analyzed	od(s) and N	Circle Meth
	Sn U V Zn	Se Ag SiO2	_	Cu Fe Pb Mg	Cd Ca Cr Co C			Al Sb	Texas 11	BRCRA 13PPM	8R	200.8 / 6020:		Total 200.7 / 6010
	Discrete					×	×	×	2	10:37	12/28/21	S	PH05A	PH
	Discrete					×	×	×		10:35	12/28/21	S	PH05	P
	Discrete					×	×	×	4	10:29	12/28/21	S	PH04A	Н
	Discrete					×	×	×		10:24	12/28/21	S	PH04	łd
	Discrete					×	×	×	2	9:31	12/28/21	S	РН03А	НА
	Discrete				-	×	×	×		9:28	12/28/21	S	PH03	Pł
	Discrete					×	×	×	4	9:19	12/28/21	S	PH02A	РН
	Discrete					×	×	×		9:15	12/28/21	S	PH02	Ьŀ
р.	Discrete					×	×	- ×	2	9:07	12/28/21	S	PH01A	РН
	Discrete		-			×	×	×		9:05	12/28/21	S	PH01	P
34 of	Sample Comments	Sa				Chloric	втех (TPH (E	Depth	Time Sampled	Date Sampled	Matrix	Sample Identification	Sample Id
	lab, if received by 4:30pm	lab,				le (El	EPA			Total Containers:	Total	Yes No N/A		Sample Custody Seals:
	TAT starts the day recevied by the	TAT sta				PA 3	0=80		5.0-	Correction Factor:	Corre	Yes No N/A		Cooler Custody Seals:
			stody	890-1773 Chain of Custody	890-1	00.0	021)	ntai	ntoi.	2005	7~~	Yes No		Received Intact:
))		ners		Thermometer ID	7	-1/1.2		Temperature (°C):
								.	Yes No	Wet Ice: ((Yes) No	Temp Blank:	EIPT	SAMPLE RECEIPT
		-							ite:	Due Date:		Benner	Payton Benner	Sampler's Name:
	AFE: DD.2017.03804.CAP.CM	AFE: DI								Rush:				P.O. Number:
	API: 30-015-45854	API: 30					t	+-	A	Routine	9 Task 09.02	31403236.022.0129 Task 09.02	314	Project Number:
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	Card .	200	Deliverables: EDD	Deli			om	wsp.c	Email: Kalei.jennings@wsp.com	Email: K		-2503	817-683-2503	Phone:
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	ntrol	due to circumstances beyond the control orced unless previously negotiated.	votice: signature of this document and relinquistment of samples constitutes a valid purchase order from client company to xerice, its animates and subcontractors. It assesses that it is considered by the client if such losses are due to circumstances beyond the constitute. Xenco, will be enforced by the client if such losses are due to circumstances beyond the constitute of the client if such losses are due to circumstances beyond the constitute of the constitute of the client if such losses are due to circumstances beyond the constitute of the constitute of the client if such losses are due to circumstances beyond the constitute of	the client if such los yzed. These terms wi	incurred by	or expenses d to Xenco, t	ny losses submitte	chase order from ponsibility for an for each sample	a charge of \$5	samples constitutions and shall not a	or the cost of sample to cost of sample to cost of sample to cost of sample to cost of sample described to cost of	be liable only for charge of \$75.0	votice: signature of this document and reiniquistment of samples constitutes a valid purchase order from client company to xerico, its artifiares and source 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 sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client if such losses are sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses incurred by the client is sylvent or any losses or expenses or expenses incurred by the client is sylvent or expenses.
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nents	Work Order Comments				ıker	Adrian Baker	ent)	Bill to: (if different)			nnings	Kalei Jennings	Project Manager:
Page2_ of2	www.xenco.com Da		Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	A (770-449-8800) T	Atlanta,G/	-355-0900)	,AZ (480	-7550) Phoenix	,NM (575-392	Hobbs			-
			10) 509-333 4)6)794-1296	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) 902-0300 915)585-34	las,TX (214 Paso,TX (9	200 Dall 3440) EL	,TX (281) 240-4 d,TX (432-704-5	Houston Midlan			XIIZOO	
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1773-1

SDG Number: 31403236.022.0129 TASK09.02

Login Number: 1773 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1773-1

SDG Number: 31403236.022.0129 TASK09.02

Login Number: 1773 **List Source: Eurofins Midland** List Creation: 12/30/21 11:52 AM List Number: 2

Creator: Rodriguez, Leticia

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

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1774-1

Laboratory SDG: 31403236.022.0129 TASK 09.02

Client Project/Site: PLU 25 BD 127H

For:

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

Attn: Kalei Jennings

MEAMER

Authorized for release by: 1/4/2022 2:47:36 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 2/16/2022 4:19:48 PM

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.

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Client: WSP USA Inc. Project/Site: PLU 25 BD 127H Laboratory Job ID: 890-1774-1 SDG: 31403236.022.0129 TASK 09.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

Qualifiers

GC	VOA
Qual	lifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

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

NEG	Negative / Absent
POS	Positive / Present
POI	Practical Quantitation

Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1774-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Laboratory: Eurofins Xenco, Carlsbad

Job ID: 890-1774-1

Narrative

Job Narrative 890-1774-1

Receipt

The samples were received on 12/28/2021 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-1774-1), FS02 (890-1774-2), FS03 (890-1774-3), FS04 (890-1774-4) and (890-1773-A-1-C). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15861 and analytical batch 880-15872 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15803 and analytical batch 880-15920 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: WSP USA Inc.

Job ID: 890-1774-1

Project/Site: PLU 35 PD 13714

SDC: 34403336 033 0430 TASK 00 03

Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS01

Date Collected: 12/28/21 12:42

Matrix: Solid

Date Received: 12/28/21 15:26

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/01/22 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			12/30/21 14:12	01/01/22 23:08	1
1,4-Difluorobenzene (Surr)	76		70 - 130			12/30/21 14:12	01/01/22 23:08	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/04/22 15:22	1
-							Analyzed	טוו רמט
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
Total TPH	52.2		50.0	mg/Kg			01/04/22 15:21	Dil Fac
- -		RO) (GC)	50.0					1
Total TPH Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	RO) (GC) Qualifier	50.0			Prepared		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		mg/Kg	<u>D</u>		01/04/22 15:21	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D	Qualifier	RL	mg/Kg	<u>D</u>	Prepared	01/04/22 15:21 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	Qualifier U	RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 17:19	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D) Result <50.0	Qualifier U	RL 50.0	mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/03/22 09:15 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 17:19 01/03/22 17:19	1 Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D) Result <50.0 52.2 <50.0	Qualifier U	RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15	Analyzed 01/03/22 17:19 01/03/22 17:19 01/03/22 17:19	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 52.2 <50.0 %Recovery 127	Qualifier U	RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared	Analyzed 01/03/22 17:19 01/03/22 17:19 01/03/22 17:19 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <50.0 52.2 <50.0 %Recovery 127 149	Qualifier U Qualifier S1+	RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 17:19 01/03/22 17:19 Analyzed 01/03/22 17:19	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <50.0 52.2 <50.0 %Recovery 127 149 omatography -	Qualifier U Qualifier S1+	RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15 Prepared 01/03/22 09:15	01/04/22 15:21 Analyzed 01/03/22 17:19 01/03/22 17:19 Analyzed 01/03/22 17:19	1 Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-1774-2

Date Collected: 12/28/21 12:44 Date Received: 12/28/21 15:26

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/30/21 14:12	01/01/22 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			12/30/21 14:12	01/01/22 23:34	1

Eurofins Xenco, Carlsbad

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enco, Carlsba

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1774-1

Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS02

Lab Sample ID: 890-1774-2 Date Collected: 12/28/21 12:44 Matrix: Solid Date Received: 12/28/21 15:26

Sample Depth: 1.5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130			12/30/21 14:12	01/01/22 23:34	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	210		50.0	mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 17:39	1
Diesel Range Organics (Over C10-C28)	210		50.0	mg/Kg		01/03/22 09:15	01/03/22 17:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 17:39	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	143	S1+	70 - 130	01/03/22 09:15	01/03/22 17:39	1
	o-Terphenyl	162	S1+	70 - 130	01/03/22 09:15	01/03/22 17:39	1
ì							

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride 1470 5.00 mg/Kg 01/04/22 08:33

Client Sample ID: FS03 Date Collected: 12/28/21 13:01

Date Received: 12/28/21 15:26

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/30/21 14:12	01/02/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130			12/30/21 14:12	01/02/22 00:01	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130			12/30/21 14:12	01/02/22 00:01	1
- Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/04/22 15:22	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1380		50.0	mg/Kg			01/04/22 15:21	

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Lab Sample ID: 890-1774-3

Matrix: Solid

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1774-1

Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS03 Lab Sample ID: 890-1774-3 Date Collected: 12/28/21 13:01 Matrix: Solid Date Received: 12/28/21 15:26

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 17:59	1
Diesel Range Organics (Over C10-C28)	1380		50.0	mg/Kg		01/03/22 09:15	01/03/22 17:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			01/03/22 09:15	01/03/22 17:59	1
o-Terphenyl	151	S1+	70 - 130			01/03/22 09:15	01/03/22 17:59	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•								

Lab Sample ID: 890-1774-4 **Client Sample ID: FS04**

Date Collected: 12/28/21 13:03 Date Received: 12/28/21 15:26

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/30/21 14:12	01/02/22 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			12/30/21 14:12	01/02/22 00:27	1
1,4-Difluorobenzene (Surr)	72		70 - 130			12/30/21 14:12	01/02/22 00:27	1
Method: Total BTEX - Total BTI	EX Calculation							
	Booult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	Unit	D	Prepareu	Allalyzeu	Diriac
Total BTEX	<0.00398		0.00398	mg/Kg	_ =	- герагец	01/04/22 15:22	1
Total BTEX Method: 8015 NM - Diesel Ran	<0.00398	U (GC)	0.00398	mg/Kg	_ =		01/04/22 15:22	1
Total BTEX Method: 8015 NM - Diesel Rang Analyte	<0.00398 ge Organics (DR Result	U	0.00398	mg/Kg	<u>D</u>	Prepared	01/04/22 15:22 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Ran	<0.00398	U (GC)	0.00398	mg/Kg	_ =		01/04/22 15:22	1
Total BTEX Method: 8015 NM - Diesel Rang Analyte	<0.00398 ge Organics (DR Result 1340 nge Organics (D	O) (GC) Qualifier RO) (GC)	0.00398	mg/Kg	_ =		01/04/22 15:22 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00398	mg/Kg	_ =		01/04/22 15:22 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	<0.00398 ge Organics (DR Result 1340 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00398 RL 49.9	mg/Kg Unit mg/Kg	<u></u>	Prepared	01/04/22 15:22 Analyzed 01/04/22 15:21	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00398 RL 49.9	mg/Kg Unit mg/Kg Unit	<u></u>	Prepared Prepared	01/04/22 15:22 Analyzed 01/04/22 15:21 Analyzed	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result <a href="</td"><td>O) (GC) Qualifier RO) (GC) Qualifier</td><td>0.00398 RL 49.9 RL 49.9</td><td>mg/Kg Unit mg/Kg Unit mg/Kg</td><td> <u></u></td><td>Prepared Prepared 01/03/22 09:15</td><td>01/04/22 15:22 Analyzed 01/04/22 15:21 Analyzed 01/03/22 18:19</td><td>Dil Fac Dil Fac</td>	O) (GC) Qualifier RO) (GC) Qualifier	0.00398 RL 49.9 RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared 01/03/22 09:15	01/04/22 15:22 Analyzed 01/04/22 15:21 Analyzed 01/03/22 18:19	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result <49.9 1290	O) (GC) Qualifier RO) (GC) Qualifier	0.00398 RL 49.9 RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u></u>	Prepared Prepared 01/03/22 09:15 01/03/22 09:15	Analyzed 01/04/22 15:22 Analyzed 01/04/22 15:21 Analyzed 01/03/22 18:19 01/03/22 18:19	Dil Fac Dil Fac
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result <49.9 1290	U O) (GC) Qualifier RO) (GC) Qualifier U	0.00398 RL 49.9 RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u></u>	Prepared Prepared 01/03/22 09:15 01/03/22 09:15	Analyzed 01/04/22 15:22 Analyzed 01/04/22 15:21 Analyzed 01/03/22 18:19 01/03/22 18:19	Dil Fac Dil Fac 1 Dil Fac 1
Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00398 ge Organics (DR Result 1340 nge Organics (D Result <49.9 1290 52.2	U O) (GC) Qualifier RO) (GC) Qualifier U	0.00398 RL 49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u></u>	Prepared Prepared 01/03/22 09:15 01/03/22 09:15 01/03/22 09:15	Analyzed 01/03/22 15:21 Analyzed 01/03/22 18:19 01/03/22 18:19 01/03/22 18:19	Dil Fac Dil Fac 1

Client Sample Results

Job ID: 890-1774-1 Client: WSP USA Inc. Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS04

Lab Sample ID: 890-1774-4

Date Collected: 12/28/21 13:03 Date Received: 12/28/21 15:26 Matrix: Solid

Sample Depth: 1.5

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	2340	F1	25.0	mg/Kg			12/30/21 20:03	5		

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Client Sample ID Matrix Spike Matrix Spike Duplicate FS01	BFB1 (70-130) 127 127 145 S1+	OFBZ1 (70-130) 111 106	
Matrix Spike Matrix Spike Duplicate	127 127	111	
Matrix Spike Duplicate	127	106	
•			
FS01	145 S1+		
	. 10 0 1 .	76	
FS02	139 S1+	79	
FS03	182 S1+	58 S1-	
FS04	139 S1+	72	
Lab Control Sample	121	0 S1-	
Lab Control Sample Dup	143 S1+	117	
Method Blank	90	87	
	FS03 FS04 Lab Control Sample Lab Control Sample Dup	FS03 182 S1+ FS04 139 S1+ Lab Control Sample 121 Lab Control Sample Dup 143 S1+ Method Blank 90	FS03 182 S1+ 58 S1- FS04 139 S1+ 72 Lab Control Sample 121 0 S1- Lab Control Sample Dup 143 S1+ 117 Method Blank 90 87

DFBZ = 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC)

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
)-1773-A-1-D MS	Matrix Spike	113	118	
)-1773-A-1-E MSD	Matrix Spike Duplicate	104	110	
)-1774-1	FS01	127	149 S1+	
)-1774-2	FS02	143 S1+	162 S1+	
)-1774-3	FS03	134 S1+	151 S1+	
-1774-4	FS04	143 S1+	160 S1+	
S 880-15861/2-A	Lab Control Sample	116	111	
SD 880-15861/3-A	Lab Control Sample Dup	107	102	
880-15861/1-A	Method Blank	96	120	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid Analysis Batch: 15844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15812

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/30/21 14:12	01/01/22 21:46	•
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/30/21 14:12	01/01/22 21:46	•

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/30/21 14:12	01/01/22 21:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/30/21 14:12	01/01/22 21:46	1

Lab Sample ID: LCS 880-15812/1-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15812

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09353		mg/Kg		94	70 - 130	
Toluene	0.100	0.08852		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.07679		mg/Kg		77	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: LCSD 880-15812/2-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 15812

RPD LCSD LCSD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.07182 mg/Kg 72 70 - 130 26 35 Toluene 0.100 0.08616 mg/Kg 86 70 - 130 3 35 Ethylbenzene 0.100 0.08216 mg/Kg 82 70 - 130 35 m-Xylene & p-Xylene 0.200 0.1660 mg/Kg 83 70 - 130 35 0.100 0.08149 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130		
1.4-Difluorobenzene (Surr)	117		70 - 130		

Lab Sample ID: 880-9746-A-6-G MS

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 15812

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits <0.00202 U 0.0994 0.06266 F1 63 Benzene mg/Kg 70 - 130 Toluene <0.00202 U 0.0994 0.06389 F1 mg/Kg 64 70 - 130

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Prep Batch: 15812

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: 880-9746-A-6-G MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 15844

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.0994	0.06876	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1390		mg/Kg		70	70 - 130	
o-Xylene	< 0.00202	U	0.0994	0.06885	F1	mg/Kg		69	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 127 1,4-Difluorobenzene (Surr) 70 - 130 111

Lab Sample ID: 880-9746-A-6-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15844

Prep Batch: 15812 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Unit Limits Benzene <0.00202 U 0.0998 0.06980 mg/Kg 70 70 - 130 11

35 7 Toluene <0.00202 U 0.0998 0.007273 F1 F2 mg/Kg 70 - 130 159 35 Ethylbenzene <0.00202 U 0.0998 0.06958 70 70 - 130 35 mg/Kg 0.200 70 - 130 35 m-Xylene & p-Xylene <0.00403 U 0.1399 mq/Kq 70 0.0998 <0.00202 U 0.06893 F1 69 70 - 130 o-Xylene mg/Kg 0

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

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

Lab Sample ID: MB 880-15861/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 15872

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ı		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:15	01/03/22 10:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	01/03/22 09:15	01/03/22 10:57	1
o-Terphenyl	120		70 - 130	01/03/22 09:15	01/03/22 10:57	1

Lab Sample ID: LCS 880-15861/2-A

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 15872** Prep Batch: 15861

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits 1000 1059 106 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1210 mg/Kg 121 70 - 130

C10-C28)

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Client Sample ID: Lab Control Sample

Prep Batch: 15861

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: LCS 880-15861/2-A

Lab Sample ID: 890-1773-A-1-D MS

Matrix: Solid

Analysis Batch: 15872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15861

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 116 70 - 130 o-Terphenyl 111 70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-15861/3-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 15872 Prep Batch: 15861

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline Range Organics 1000 985.7 99 70 - 1307 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1132 mg/Kg 113 70 - 13020 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	102		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analysis Batch: 15872 Prep Batch: 15861 MS MS

Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 996 796.6 mg/Kg 80 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 996 499.7 F1 mg/Kg 47 70 - 130

C10-C28)

Matrix: Solid

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 113 70 - 130 o-Terphenyl 118

Lab Sample ID: 890-1773-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 15872 Prep Batch: 15861 Camania Camania Calle

	Sample	Sample	эріке	MOD	MISD				%Rec.		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U F1 F2	999	465.0	F1 F2	mg/Kg		47	70 - 130	53	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U F1	999	469.3	F1	mg/Kg		44	70 - 130	6	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	110		70 - 130

Client Sample ID: Method Blank

Prep Type: Soluble

Job ID: 890-1774-1

Client: WSP USA Inc. SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BD 127H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15804/1-A

Matrix: Solid Analysis Batch: 15822

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/30/21 19:31	1

Lab Sample ID: LCS 880-15804/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 15822

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	253.0		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-15804/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble** Analysis Batch: 15822

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	3	20

Lab Sample ID: 890-1774-4 MS Client Sample ID: FS04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15822

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2340	F1	1250	3776	F1	mg/Kg	_	115	90 - 110	

Lab Sample ID: 890-1774-4 MSD **Client Sample ID: FS04 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15822

	Sample	Sample	Spike	M2D	พเอบ				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	2340	F1	1250	3885	F1	mg/Kg		124	90 - 110	3	20	

Lab Sample ID: MB 880-15803/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

MR MR

	IVID	MID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/03/22 16:56	1

Lab Sample ID: LCS 880-15803/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	245.5		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-15803/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Spike	LCSD	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	239.6	mg/k		96	90 - 110	2	20

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1770-A-1-F MS

Matrix: Solid

Analysis Batch: 15920

Alidiysis Batcii. 15520											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	287	F1	250	527.7		mg/Kg		97	90 - 110		_

Lab Sample ID: 890-1770-A-1-G MSD

Matrix: Solid

Analysis Batch: 15920

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	287	F1	250	505.3	F1	mg/Kg		88	90 - 110	4	20

Lab Sample ID: 890-1773-A-9-B MS

Matrix: Solid

Analysis Batch: 15920										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	838		1260	1988		mg/Kg		91	90 - 110	

Lab Sample ID: 890-1773-A-9-C MSD

Matrix: Solid

Analysis Batch: 15920											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	838		1260	1994		mg/Kg		92	90 - 110	0	20

 Client: WSP USA Inc.
 Job ID: 890-1774-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

GC VOA

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Total/NA	Solid	5035	
890-1774-2	FS02	Total/NA	Solid	5035	
890-1774-3	FS03	Total/NA	Solid	5035	
890-1774-4	FS04	Total/NA	Solid	5035	
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Total/NA	Solid	8021B	15812
890-1774-2	FS02	Total/NA	Solid	8021B	15812
890-1774-3	FS03	Total/NA	Solid	8021B	15812
890-1774-4	FS04	Total/NA	Solid	8021B	15812
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	8021B	15812
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15812
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	8021B	15812
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15812

Analysis Batch: 16004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Total/NA	Solid	Total BTEX	
890-1774-2	FS02	Total/NA	Solid	Total BTEX	
890-1774-3	FS03	Total/NA	Solid	Total BTEX	
890-1774-4	FS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Total/NA	Solid	8015NM Prep	
890-1774-2	FS02	Total/NA	Solid	8015NM Prep	
890-1774-3	FS03	Total/NA	Solid	8015NM Prep	
890-1774-4	FS04	Total/NA	Solid	8015NM Prep	
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1773-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1773-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Total/NA	Solid	8015B NM	15861
890-1774-2	FS02	Total/NA	Solid	8015B NM	15861
890-1774-3	FS03	Total/NA	Solid	8015B NM	15861
890-1774-4	FS04	Total/NA	Solid	8015B NM	15861
MB 880-15861/1-A	Method Blank	Total/NA	Solid	8015B NM	15861
LCS 880-15861/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15861

Eurofins Xenco, Carlsbad

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 Client: WSP USA Inc.
 Job ID: 890-1774-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

GC Semi VOA (Continued)

Analysis Batch: 15872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-15861/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15861
890-1773-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15861
890-1773-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15861

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Ba	3atch
890-1774-1	FS01	Total/NA	Solid	8015 NM	
890-1774-2	FS02	Total/NA	Solid	8015 NM	
890-1774-3	FS03	Total/NA	Solid	8015 NM	
890-1774-4	FS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Soluble	Solid	DI Leach	
890-1774-2	FS02	Soluble	Solid	DI Leach	
890-1774-3	FS03	Soluble	Solid	DI Leach	
MB 880-15803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1770-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1770-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1773-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1773-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 15804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-4	FS04	Soluble	Solid	DI Leach	
MB 880-15804/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15804/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15804/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1774-4 MS	FS04	Soluble	Solid	DI Leach	
890-1774-4 MSD	FS04	Soluble	Solid	DI Leach	

Analysis Batch: 15822

Lab Sample ID 890-1774-4	Client Sample ID FS04	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 15804
MB 880-15804/1-A	Method Blank	Soluble	Solid	300.0	15804
LCS 880-15804/2-A	Lab Control Sample	Soluble	Solid	300.0	15804
LCSD 880-15804/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15804
890-1774-4 MS	FS04	Soluble	Solid	300.0	15804
890-1774-4 MSD	FS04	Soluble	Solid	300.0	15804

Analysis Batch: 15920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1774-1	FS01	Soluble	Solid	300.0	15803
890-1774-2	FS02	Soluble	Solid	300.0	15803
890-1774-3	FS03	Soluble	Solid	300.0	15803
MB 880-15803/1-A	Method Blank	Soluble	Solid	300.0	15803
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	300.0	15803

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

HPLC/IC (Continued)

Analysis Batch: 15920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
LCSD 880-15803/3-A	Lab Control Sample Dup	Control Sample Dup Soluble		300.0	15803	
890-1770-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	15803	
890-1770-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15803	
890-1773-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	15803	
890-1773-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15803	

Client: WSP USA Inc. Project/Site: PLU 25 BD 127H Job ID: 890-1774-1

SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS01

Lab Sample ID: 890-1774-1

Matrix: Solid

Date Collected: 12/28/21 12:42 Date Received: 12/28/21 15:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/01/22 23:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/03/22 21:52	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-1774-2

Date Collected: 12/28/21 12:44 Matrix: Solid

Date Received: 12/28/21 15:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/01/22 23:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1	15920	01/04/22 08:33	CH	XEN MID

Client Sample ID: FS03 Lab Sample ID: 890-1774-3

Date Collected: 12/28/21 13:01 **Matrix: Solid** Date Received: 12/28/21 15:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 00:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		5	15920	01/04/22 08:45	CH	XEN MID

Client Sample ID: FS04 Lab Sample ID: 890-1774-4

Date Collected: 12/28/21 13:03 **Matrix: Solid** Date Received: 12/28/21 15:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	15844	01/02/22 00:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16004	01/04/22 15:22	AJ	XEN MID

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1774-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS04

Lab Sample ID: 890-1774-4

Matrix: Solid

Date Collected: 12/28/21 13:03 Date Received: 12/28/21 15:26

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15861	01/03/22 09:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15872	01/03/22 18:19	AJ	XEN MID
Soluble	Leach	DI Leach			15804	12/30/21 12:33	CA	XEN MID
Soluble	Analysis	300.0		5	15822	12/30/21 20:03	CH	XEN MID

Laboratory References:

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

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Total BTEX

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Total BTEX

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		it the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Solid

Method Summary

Client: WSP USA Inc. Job ID: 890-1774-1 Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 2/16/2022 4:19:48 PM

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127H

Job ID: 890-1774-1

SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1774-1	FS01	Solid	12/28/21 12:42	12/28/21 15:26	1.5
890-1774-2	FS02	Solid	12/28/21 12:44	12/28/21 15:26	1.5
890-1774-3	FS03	Solid	12/28/21 13:01	12/28/21 15:26	1.5
890-1774-4	FS04	Solid	12/28/21 13:03	12/28/21 15:26	1.5

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Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Concest Manager Kollet Jennings Kollet Je	REQUEST Reporting: Level II	Revised Date 051418 Rev. 2018 1		50 8						5
Reporting: Level II	REQUEST Requestation of Custody Reporting: Level III				12:5/1183	0 12	(A)	2	Nex	moder.
REQUEST Reporting:Level II	REQUEST Reporting: Level II	Date/Time	Received by: (Signature)		Date/Time	a)	eçeived by: (Signatur	, R	y: (Signature)	Relinquished b
Manager: Kale Jennings	Manager Kale Jennings Hobbs, Mill 15-382-7307 Section Manager Kale Jennings (3-36-2600) Manager Manager Male Manager M		ard terms and conditions stances beyond the control reviously negotiated.	liates and subcontractors. It assigns stand the client if such losses are due to circums zed. These terms will be enforced unless pu	company to Xenco, its affi es or expenses incurred by ted to Xenco, but not analy	ase order from client nsibility for any loss each sample submit	les constitutes a valid purch I shall not assume any respo project and a charge of \$5 to	uishment of sam ost of samples an applied to each	document and reling liable only for the co harge of \$75.00 will be	Notice: Signature of this of service. Xenco will b of Xenco. A minimum c
Warner Kale Jennings	Manager: Kale Jennings Hobbs MM (67/882/755) Bill to (# offeren) Manager	Sn U V Zn 1/7470 /7471:Hg	K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mg d Cr Co Cu Pb Mn Mo Ni So		M Texas 11 / P 6010: 8RCR/	<u>۾</u>	6020:) to be analy.	3010 200.8 / (d(s) and Metal(s	Total 200.7 / Circle Metho
Manager: Male Jennings	Manager Kalel Jennings	11 1								
Manager: Kalei Jennings WSP USA MSP USA Salo North A Street Building 1, unit 222 Company Name: XTO Energy, INVC Salo North A Street Building 1, unit 222 Address: 300	Manager: Kalei Jennings									
Manager Kalei Jennings Bill to: (if officered) Addran Baker Wish Ush	Manager Kalei Jennings									
Manager Kalei Jennings	Manager: Kalei Jennings									
Manager: KaleI Jennings Bill to: (# other cent) Adrian Baker Work Order C ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST _RP _rownft Program: UST/PST _RP _rownft s: 3300 North A Street Building 1, unit 222 Address: 3104 E Green Street 3104 E Green Street State of Project: state 2IP: Midland, Texas 79705 Email (Aglei Jennings@wsp.com) City, Stale ZIP: Carlsbad New Meance 88220 Program: UST/PST _RP _rownft State of Project: Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST ADaPT Number: 1 4 002236 022.0129 Task 09.02 Routine _R ADaPT Yes Name: Payton Benner Due Date: Thermoneter ID Thermoneter ID Total Containers: Yes No (NA) Correction Factor: _C	Manager: Kalei Jennings	Composite			×	1.5)4	FS
Manager: Kalei Jennings Bill to: (# offer can be purply lame). Adrian Baker Work Order C. Company Name. XTO Energy, INC. XTO Energy, INC. Work Order C. Compan, Value. XTO Energy, INC. XTO Energy, INC. You Address: XTO Energy, INC. XTO Energ	Hobbs,NM (573-3827550) Phoenis,AZ (480-355-900) Allana,BAA (770-449-8800) Tampa,FL (813-620-2000) Tampa,FL (813-620-2000) Work Order C	Composite			×)3	FS
Manager: Kalei Jennings Bill to: (filderen) Addrian Baker Work Order C. Owns Marine. Company Name. XTO Energy INC. XTO Energy INC. Program. UST/PST _ IPP _ Owns Marine. PRP _ Order. State of Project: Program: UST/PST _ IPP _ Owns Marine. Program: UST/PST _ Owns Marine. <t< td=""><td> Hobbs.NM (57-392-750) Hobb</td><td>Composite</td><td></td><td></td><td>×</td><td></td><td></td><td></td><td>)2</td><td>FS</td></t<>	Hobbs.NM (57-392-750) Hobb	Composite			×)2	FS
Manager: Kallei Jennings Bill to: (If deflerent) Addrian Baker Work Order Curry, Name: Work Order Curry, Name: WSP USA Company, Name: XTO Energy, INC XTO Energy, INC Addrian Baker Work Order Curry, Name: WSP USA State of Project: Program: UST/PST □RP □rownfl State of Project: Program: UST/PST □RP □rownfl Important □RP □rownfl State of Project: Project: Project: State of Project: Project: Important □RP □rownfl	Manager: Kalei Jennings	Composite			×	1.5			01	FS
Manager: Kalei Jennings Bill to: (# offishern) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC Program: UST/PST □RP □rownfi state ZIP: Midland, Texas 79705 City, State ZIP: 2300 North A Street Building 1, unit 222 Address: 3104 E Green Street State of Project: ate ZIP: Midland, Texas 79705 Email: Kalei Jennings@wsp.com Carlsbad, New Mexico 88220 Program: UST/PST □RP □rownfi Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Paporting: Level III □T/U Inber: 31403236:022.0129 Task 09.02 Routine ANALYSIS REQUEST Inber: Temp Blank: Ves No Due Date: Indinact: Ves No No Temp Plank: Ves No No Temp Plank: Ves No	Manager: Kallei Jennings Bill to: (If different) Adrian Baker WSP USA Company Name: WSP USA Company Name: XTO Energy, INC State of Project: Midland, Texas 79705 Email: Kallei Jennings@wsp.com Manae: PLU 25 BD 127 H Turn Around PLU 25 BD 127 H Turn Around PLU 25 BD 127 H Turn Around Push: State of Project: State of Project: State of Project: ADaPT Mumber: 31403236.022.0129 Task 09.02 Routine Plu Blank: Yes No No No Total Containers: Yes No No Yes	mple Comments	Sa		втех (ntification	Sample Ide
Manager: Kalei Jennings Bill to: (if different) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. XTO Energy, INC. Program: UST/PST □RP □rownft state zIP: Midland, Texas 79705 City, State zIP: Carlsbad, New Mexico 88220 Program: UST/PST □RP □rownft Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine, R r's Name: Payton Benner Due Date: PLE RECEIPT Temp Blank: Yes No Yes No Wet Ice: Yes No Thermometer ID Custody Seals: Yes No No Correction Factor: ¬C, ¬Z To To To To To Custody Seals: Yes No No Correction Factor: ¬C, ¬Z To	Manager: Kalei Jennings Hobbs.NM (575:3917-550) Picenits, 2760 Picenits Carlos Gold Adrian Baker Work Order C	if received by 4:30pm	lab,		EPA	er of	Total Containers:	1	Yes	Sample Custody Se
Manager: Kalei Jennings Bill to: (if offerent) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC Program: UST/PST □RP □rownfi s: 3300 North A Street Building 1, unit 222 Address: 3104 E Green Street State of Project: ste ZIP: Midland, Texas 79705 Email: Kalei.jennings@wsp.com Cirly, State ZIP: Carlsbad, New Mexico 88220 Reporting: Level II □evel III □T/U Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine P r's Name: Payton Benner Due Date: r's Name: Payton Benner Due Date: Thermometer ID Thermometer ID ad Intact: Yes) No Thermometer ID Thermometer ID Tall and the circle of the circl	Manager: Kalei Jennings	rts the day recevied by the			0=8	0.2	Correction Factor:		Yes	Cooler Custody Sea
Manager: Kalei Jennings Bill to: (# different) Adrian Baker ## Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST □RP □rownfi s: 3300 North A Street Building 1, unit 222 Address: 3104 E Green Street State of Project: ste ZIP: Midland, Texas 79705 Email: Kalei-Jennings@wsp.com Carlsbad, New Mexico 88220 Reporting: Level III □T/U Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine Af PLE RECEIPT Temp Blank: Yes) No Wet Ice: Yes) No Wet Ice: Yes) No ature (°C): 1. 4 1. 7 Thermometer ID Address: XTO Energy, INC 3104 E Green Street	Manager: Kalei Jennings Hobbs.NM (675-392-750) Proenix, AZ (480-355-090) Allania, GA (770-449-8800) Tampa,FL (813-620-2000) Work Order C.				021)		ーパーしゅつ	8	(Yes)	Received Intact:
Manager: Kallei Jennings Bill to: (# drifterent) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST □RP □rownfi ste ZIP: Midland, Texas 79705 City, State ZIP: 3104 E. Green Street State of Project: Name: 817-683-2503 Email: Kalei.jennings@wsp.com Carlsbad, New Mexico 88220 Reporting:Level III □T/U Number: 9LU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine Rush: PAURD Benner Due Date: Temp Blank: Yes No Wet Ice: Yes No Yes No	Manager: Kalei Jennings Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-820-2000) Work Order C. Wash Was						Thermometer II	1.2	12	Temperature (°C):
Manager: Kalei Jennings Bill to: (if different) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST □RP □rownfi s:: 3300 North A Street Building 1, unit 222 Address: 3104 E. Green Street State of Project: ate ZIP: Midland, Texas 79705 Email: Kalei.jennings@wsp.com Carlsbad, New Mexico 88220 Reporting:Level II □r/U Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine P r's Name: Paylon Benner Due Date:	Manager: Kallei Jennings Bill to: (If different) Adrian Baker Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. YTO Energy, INC. Program: UST/PST Prownfig: Level III					Š	S O			SAMPLE REC
Manager: Kalei Jennings Bill to: (if different) Adrian Baker Work Order C. ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST □RP □rownfi s: 3300 North A Street Building 1, unit 222 Address: 3104 E. Green Street State of Project: state ZIP: Midland, Texas 79705 City, State ZIP: Carlsbad, New Mexico 88220 Reporting: Level III □T/U Name: PLU 25 BD 127 H Turn Around ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine ANALYSIS REQUEST ANALYSIS REQUEST	Manager: Kalei Jennings Hobbs,NM (575-392-755) (Poc Poc Pix,AZ (480-355-0900)) Atlantia,GA (770-449-8800) Tampa,FL (813-620-2000) Wwww.xenco.com My Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST □RP □rownfi 3300 North A Street Building 1, unit 222 Address: 3104 E. Green Street State of Project: 3104 E. Green Street State of Project: Program: UST/PST □RP □rownfi 3107-683-2503 Email: Kalei.jennings@wsp.com ANALYSIS REQUEST Number: 31403236.022.0129 Task 09.02 Routine Amber: But an Baker ANALYSIS REQUEST		-			ate:	Due D		Payton Benner	Sampler's Name:
Manager: Kalei Jennings Bill to: (# different) Adrian Baker ## Order Comm ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST	Manager: Kalei Jennings Bill to: (# offeren) Address: XTO Energy, INC. XTO Energy, INC. Work Order Committed State of Project: State of Project: Program: UST/PST	D.2017.03804.CAP.CN	AFE: DI							P.O. Number:
Manager: Kalei Jennings Bill to: (# drifferent) Addrian Baker Work Order Comm ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST	Manager: Kalei Jennings Bill to: (# different) Addrian Baker XTO Energy, INC. State of Project: Work Order Comm s: 3300 North A Street Building 1, unit 222 Address: 3104 E Green Street 3104 E Green Street Program: UST/PST □RP □rownfields State of Project: ate ZIP: Midland, Texas 79705 Email: Kalei jennings@wsp.com Carlsbad, New Mexico 88220 Reporting: Level III □rt/UST 817-683-2503 Email: Kalei jennings@wsp.com ANALYSIS REQUEST Deliverables: EDD ADaPT □	-015-45854	API: 30-			7		.022.0129 Ta	31403236	Project Number:
Manager: Kalei Jennings Bill to: (if different) Adrian Baker Work Order Comments ny Name: WSP USA Company Name: XTO Energy, INC. Program: UST/PST PR prownfields Program: UST/PST PR program: UST/PST PR prownfields Program: UST/PST PR program: UST/PST PR prownfields PR prownfields PR prownfields PR prownfields PR prownfields PR prownfields PR prownfiel	Manager: Kalei Jennings Hobbs,NM (575-392:7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	ork Order Notes	W			Around	Tun	7 H	PLU 25 BD 12	Project Name:
Kalei Jennings Bill to: (if different) Adrian Baker Work Order Comments WSP USA Company Name: XTO Energy, INC. Program: UST/PST ☐RP ☐rownfields ☐RC 3300 North A Street Building 1, unit 222 Address: 3104 E. Green Street State of Project: Midland, Texas 79705 City, State ZIP: Carlsbad, New Mexico 88220 Reporting: Level III ☐evel III ☐PT/UST ☐RP	ABDRATORIES	Otner:		Dei	wsp.com	(alei.jennings@	Email:		817-683-2503	Phone:
Kalei Jennings Bill to: (if different) Adrian Baker Work Order Comments WSP USA Company Name: XTO Energy, INC. Program: UST/PST Prownfields Program: UST/PST Prownfields Program: UST/PST Prownfields Program: UST/PST Prownfields Program: UST/PST Program: UST/PST Program: UST/PST Prownfields Pr	ABORATORIES Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) www.xenco.com 2age Work Order Comments	HP LIVELIV			Carlsbad, New Mexi	City, State ZIP:		s 79705	Midland, Texas	City, State ZIP:
Kalei Jennings Bill to: (if different) Adrian Baker Work Order Comments WSP USA Company Name: XTO Energy, INC. Program: UST/PST ☐RP ☐rownfields ☐RC	WSP USA Company Name: XTO Energy, INC. WSP USA Company Name: XTO Energy, INC. XTO Energy, INC				3104 E. Green Stree	ddress:		Street Buildin	3300 North A S	Address:
Kalei Jennings Bill to: (# different) Adrian Baker	Kalei Jennings Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Adrian Baker Kalei Jennings Bill to: (# different) Adrian Baker Work Order Comments		□RP □rownfields	Pro	XTO Energy, INC.	Company Name:			WSP USA	Company Name:
	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) WWW.xenco.com 2age1	ts	Work Order Comment		Adrian Baker	Bill to: (if different)			Kalei Jennings	Project Manager:

Work Order No:

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1774-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1774 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s 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 <6 mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1774-1

SDG Number: 31403236.022.0129 TASK 09.02

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 12/30/21 11:52 AM

Creator: Rodriguez, Leticia

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

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1/4/2022



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1809-1

Laboratory SDG: 31403236.022.0129 TASK 09.02

Client Project/Site: PLU 25 BD 127H

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 1/14/2022 1:12:52 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 2/16/2022 4:19:48 PM

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.

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Client: WSP USA Inc. Project/Site: PLU 25 BD 127H Laboratory Job ID: 890-1809-1 SDG: 31403236.022.0129 TASK 09.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1809-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Job ID: 890-1809-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1809-1

Receipt

The samples were received on 1/7/2022 1:37 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 3.2°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16424 and analytical batch 880-16336 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16432 and 880-16432 and analytical batch 880-16543 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-1809-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS03A

Date Collected: 01/07/22 11:15 Date Received: 01/07/22 13:37

Sample Depth: 1.65

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 12:46	
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 12:46	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 12:46	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/11/22 07:30	01/11/22 12:46	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 12:46	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/11/22 07:30	01/11/22 12:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			01/11/22 07:30	01/11/22 12:46	
1,4-Difluorobenzene (Surr)	102		70 - 130			01/11/22 07:30	01/11/22 12:46	
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/12/22 13:10	
Method: 8015 NM - Diesel Range	•		D.	IIiA	_	Dd	A a la a d	D:: F-
•	•				_			D.11 E
Method: 8015 NM - Diesel Range Analyte Total TPH	•	O) (GC) Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/12/22 14:00	
Analyte Total TPH	Result 217	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 217 ge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared	01/12/22 14:00	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 217 ge Organics (Di	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		· ·		Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 217 ge Organics (DI Result	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	01/12/22 14:00 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 217 ge Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 01/10/22 11:18	01/12/22 14:00 Analyzed 01/11/22 00:06	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 217 ge Organics (Di Result <50.0 217	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/10/22 11:18 01/10/22 11:18	01/12/22 14:00 Analyzed 01/11/22 00:06 01/11/22 00:06	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 217	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/10/22 11:18 01/10/22 11:18	01/12/22 14:00 Analyzed 01/11/22 00:06 01/11/22 00:06 01/11/22 00:06	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 217	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/10/22 11:18 01/10/22 11:18 01/10/22 11:18 Prepared	01/12/22 14:00 Analyzed 01/11/22 00:06 01/11/22 00:06 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 217	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/10/22 11:18 01/10/22 11:18 01/10/22 11:18 Prepared 01/10/22 11:18	Analyzed 01/11/22 00:06 01/11/22 00:06 01/11/22 00:06 Analyzed 01/11/22 00:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 217	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/10/22 11:18 01/10/22 11:18 01/10/22 11:18 Prepared 01/10/22 11:18	Analyzed 01/11/22 00:06 01/11/22 00:06 01/11/22 00:06 Analyzed 01/11/22 00:06	Dil Fac

Client Sample ID: FS04A

Date Collected: 01/07/22 11:18

Date Received: 01/07/22 13:37 Sample Depth: 1.65

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/11/22 07:30	01/11/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/11/22 07:30	01/11/22 13:07	1

Eurofins Carlsbad

Lab Sample ID: 890-1809-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1809-1

Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS04A Lab Sample ID: 890-1809-2

Date Collected: 01/07/22 11:18 Matrix: Solid Date Received: 01/07/22 13:37

Sample Depth: 1.65

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	108		70 - 130			01/11/22 07:30	01/11/22 13:07	
Method: Total BTEX - Total BTE	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/12/22 13:10	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			01/12/22 14:00	
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 00:26	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 00:26	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/11/22 00:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4.000	95		70 - 130			01/10/22 11:18	01/11/22 00:26	
1-Chiorooctane			70 - 130			01/10/22 11:18	01/11/22 00:26	
1-Chlorooctane o-Terphenyl	89		70 - 130					
		Soluble	70 - 130					
o-Terphenyl	omatography -	Soluble Qualifier	70 - 730 RL	Unit	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1809-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1808-A-1-A MS	Matrix Spike	113	97	
890-1808-A-1-B MSD	Matrix Spike Duplicate	114	99	
890-1809-1	FS03A	110	102	
890-1809-2	FS04A	116	108	
LCS 880-16375/1-A	Lab Control Sample	106	102	
LCSD 880-16375/2-A	Lab Control Sample Dup	100	95	
MB 880-16375/5-A	Method Blank	122	104	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1808-A-1-E MS	Matrix Spike	75	66 S1-	
890-1808-A-1-F MSD	Matrix Spike Duplicate	77	75	
890-1809-1	FS03A	90	90	
890-1809-2	FS04A	95	89	

Surrogate Legend

OTPH = o-Terphenyl

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-16424/2-A	Lab Control Sample	88	82	
LCSD 880-16424/3-A	Lab Control Sample Dup	90	85	
MB 880-16424/1-A	Method Blank	85	86	
Surrogate Legend				
1CO = 1-Chlorooctane				

Client: WSP USA Inc. Job ID: 890-1809-1 SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BD 127H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16375/5-A

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16375

	мв	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/11/22 07:30	01/11/22 10:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/11/22 07:30	01/11/22 10:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/11/22 07:30	01/11/22 10:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/11/22 07:30	01/11/22 10:56	1

Lab Sample ID: LCS 880-16375/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 16473

Prep Type: Total/NA

Prep Batch: 16375

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08315	-	mg/Kg		83	70 - 130	
Toluene	0.100	0.08870		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09339		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.08889		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	alifier	Limits		
4-Bromofluorobenzene (Surr)	106		70 - 130		
1,4-Difluorobenzene (Surr)	102		70 - 130		

Lab Sample ID: LCSD 880-16375/2-A

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control Sam	ple Dup
--	------------	-------------	--------------------	---------

Prep Type: Total/NA

Prep Batch: 16375

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.07953 mg/Kg 80 70 - 130 35 Toluene 0.100 0.08523 mg/Kg 85 70 - 130 35 Ethylbenzene 0.100 0.08496 mg/Kg 85 70 - 130 35 0.200 0.1720 m-Xylene & p-Xylene mg/Kg 86 70 - 130 35 0.100 0.08408 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	100		70 - 130		
1,4-Difluorobenzene (Surr)	95		70 - 130		

Lab Sample ID: 890-1808-A-1-A MS

Matrix: Solid

Analysis Batch: 16473

Client Sample ID: Matrix Spike	е
Prep Type: Total/N/	4

Prep Batch: 16375

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0996	0.07065		mg/Kg		71	70 - 130	
Toluene	< 0.00202	U	0.0996	0.08138		mg/Kg		81	70 - 130	

Prep Batch: 16375

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: 890-1808-A-1-A MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 16473

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U	0.0996	0.08297		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1604		mg/Kg		81	70 - 130	
o-Xylene	<0.00202	U	0.0996	0.07909		mg/Kg		79	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-1808-A-1-B MSD

Analysis Batch: 16473

Matrix: Solid

Analysis Batch: 16473									Prep	Prep Batch: 16375		
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U	0.100	0.07696		mg/Kg		77	70 - 130	9	35	
Toluene	<0.00202	U	0.100	0.08435		mg/Kg		84	70 - 130	4	35	
Ethylbenzene	<0.00202	U	0.100	0.08810		mg/Kg		88	70 - 130	6	35	
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1699		mg/Kg		85	70 - 130	6	35	
o-Xylene	<0.00202	U	0.100	0.08222		mg/Kg		82	70 - 130	4	35	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-16424/1-A

Matrix: Solid

Analysis Batch: 16336							Prep Batch: 16424			
-	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1		
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/10/22 11:18	01/10/22 20:35	1		
C10-C28)										
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	ma/Ka		01/10/22 11:18	01/10/22 20:35	1		

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	01/10/22 11:	01/10/22 20:35	1
o-Terphenyl	86		70 - 130	01/10/22 11:	8 01/10/22 20:35	1

Lab Sample ID: LCS 880-16424/2-A

Matrix

Analys

x: Solid						•	Prep Type: Total/NA	
ysis Batch: 16336							Prep Batch: 16424	
	Spike	LCS	LCS				%Rec.	
e	Added	Result	Qualifier	Unit	D	%Rec	Limits	

	Opike	LOS	LUU				/orvec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	826.7		mg/Kg		83	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	915.4		mg/Kg		92	70 - 130
C10-C28)							

Eurofins Carlsbad

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Job ID: 890-1809-1

mg/Kg

SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: LCS 880-16424/2-A

Lab Sample ID: LCSD 880-16424/3-A

Lab Sample ID: 890-1808-A-1-E MS

Matrix: Solid

Matrix: Solid

Client: WSP USA Inc.

Analysis Batch: 16336

Project/Site: PLU 25 BD 127H

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16424

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 82 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

92

Prep Type: Total/NA

Prep Batch: 16424

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Analysis Batch: 16336 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 841.5 84 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

916.2

1000

Diesel Range Organics (Over C10-C28)

Matrix: Solid

Analysis Batch: 16336

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	85		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16424

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 996 977.5 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 851.8 mg/Kg 86 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	75	70 - 130
o-Terphenyl	66 S1-	70 - 130

Lab Sample ID: 890-1808-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 16336

Prep Type: Total/NA

Prep Batch: 16424

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 999 1093 107 Gasoline Range Organics mg/Kg 70 - 130 11 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 862.8 mg/Kg 86 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	75		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H

SDG: 31403236.022.0129 TASK 09.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16432/1-A

Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 16543

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/13/22 21:45

Lab Sample ID: LCS 880-16432/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 16543

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 264.9 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-16432/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 16543

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.8 108 mg/Kg 90 - 110

Lab Sample ID: 890-1807-A-3-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 16543

%Rec. Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 278 F1 250 567.3 F1 116 90 - 110 mg/Kg

Lab Sample ID: 890-1807-A-3-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 16543

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 278 F1 250 567.6 F1 mg/Kg 116 90 - 110 20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

GC VOA

Prep Batch: 16375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	5035	
890-1809-2	FS04A	Total/NA	Solid	5035	
MB 880-16375/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16375/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16375/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1808-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1808-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	8021B	16375
890-1809-2	FS04A	Total/NA	Solid	8021B	16375
MB 880-16375/5-A	Method Blank	Total/NA	Solid	8021B	16375
LCS 880-16375/1-A	Lab Control Sample	Total/NA	Solid	8021B	16375
LCSD 880-16375/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16375
890-1808-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16375
890-1808-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16375

Analysis Batch: 16668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	Total BTEX	
890-1809-2	FS04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 16336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	8015B NM	16424
890-1809-2	FS04A	Total/NA	Solid	8015B NM	16424
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015B NM	16424
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16424
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16424
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16424
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16424

Prep Batch: 16424

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	8015NM Prep	
890-1809-2	FS04A	Total/NA	Solid	8015NM Prep	
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Total/NA	Solid	8015 NM	
890-1809-2	FS04A	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1809-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

HPLC/IC

Leach Batch: 16432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Soluble	Solid	DI Leach	
890-1809-2	FS04A	Soluble	Solid	DI Leach	
MB 880-16432/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16432/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16432/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1807-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1807-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 16543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1809-1	FS03A	Soluble	Solid	300.0	16432
890-1809-2	FS04A	Soluble	Solid	300.0	16432
MB 880-16432/1-A	Method Blank	Soluble	Solid	300.0	16432
LCS 880-16432/2-A	Lab Control Sample	Soluble	Solid	300.0	16432
LCSD 880-16432/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16432
890-1807-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	16432
890-1807-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16432

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 Client: WSP USA Inc.
 Job ID: 890-1809-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: FS03A Lab Sample ID: 890-1809-1

Date Collected: 01/07/22 11:15
Date Received: 01/07/22 13:37
Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	16473	01/11/22 12:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16336	01/11/22 00:06	AJ	XEN MID
Soluble	Leach	DI Leach			16432	01/10/22 13:08	CH	XEN MID
Soluble	Analysis	300.0		5	16543	01/14/22 00:53	CH	XEN MID

Client Sample ID: FS04A Lab Sample ID: 890-1809-2

Date Collected: 01/07/22 11:18 Matrix: Solid

Date Received: 01/07/22 13:37

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16375	01/11/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	16473	01/11/22 13:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	16668	01/12/22 13:10	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16554	01/12/22 14:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16424	01/10/22 11:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16336	01/11/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			16432	01/10/22 13:08	СН	XEN MID
Soluble	Analysis	300.0		1	16543	01/14/22 00:59	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1809-1 Project/Site: PLU 25 BD 127H SDG: 31403236.022.0129 TASK 09.02

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date		
Texas	NE	ELAP	T104704400-21-22	06-30-22		
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM						
8015 NM		Solid	Total TPH			

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1809-1

 Project/Site: PLU 25 BD 127H
 SDG: 31403236.022.0129 TASK 09.02

Protocol Laboratory
SW846 XEN MID

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BD 127H

Job ID: 890-1809-1

SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1809-1	FS03A	Solid	01/07/22 11:15	01/07/22 13:37	1.65
890-1809-2	FS04A	Solid	01/07/22 11:18	01/07/22 13:37	1.65

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Chain of Custody

	phemil	Relinquished by: (Signature)	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 condit 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 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 cost 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				FS03A S	Sample Identification Matrix	Sample Custody Seals: Yes No N/A	Cooler Custody Seals: Yes No N/A	(Yes) No	Temperature (°C): $3-4/3-2$	SAMPLE RECEIPT Temp Blank:	Sampler's Name: Payton Benner	P.O. Number:	Project Number: 31403236.022.0129 Task 09.02	Project Name: PLU 25 BD 127H	Phone: 817-683-2503	City, State ZIP: Midland, Texas 79705	Address: 3300 North A Street Building 1, unit 222		Project Manager: Kalei Jennings	LABORATORIES
	AUR Chat	Received by: (Signature)	t of samples constitutes a valid pu nples and shall not assume any re to each project and a charge of \$5	85			01/07/22 11:18	01/07/22 11:15	Date Time Sampled Sampled	Total Containers:	Correction Factor:	HOSTANDA		nk: No Wet Ice:	Due	Rush:		1	Emai	5	Building 1, unit 222			Midlan Hobbs,NM (575-392
	07-		rchase order from client c sponsibility for any losses 5 for each sample submitte	RCRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA			1.65	1.65 1	Depth		200			Yes) No	Due Date:	j ñ:	Routine X	Turn Around	Email: Kalei.jennings@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	nd,TX (432-704-5440) E 2-7550) Phoenix,AZ (48
on .	M-64-27 1000 4	Date/Time	ompany to Xenco, its affilial or expenses incurred by th d to Xenco, but not analyze	Sb As Ba Be B C Sb As Ba Be Cd			× ×	×	TPH (E	EPA	0=8	021)))						sp.com	Carlsbad, NM 88220	3104 E Green Street	XTO Energy Inc.	Adrian Baker	Midland,TX (432-704-5440) EL Pasc,TX (915)585-3443 Lubbock,TX (806)794 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa
		Relinquished by: (Signature)	tes and subcontrectors. It assigns ste ne client if such losses are due to circu d. These terms will be enforced unles	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U									890-1809 Chain of Custody					ANALYSIS REQUEST						Midland,TX (432-704-5440) EL Pasc,TX (915)S85-3443 Lubbock,TX (806)794-1296 75-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000)
		e) Received by: (Signature)	It assigns standard terms and conditions to due to circumstances beyond the control inforced unless previously negotiated.	i K Se Ag SiO2							TAT		Custody			-			Deliverables: EDD ADaPT	evel	ı #	☐RP ☐rownfields	Work Order Comments	0-2000) www.xenco.com ⁵ age
		Date/Time		Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg			COMPOSITE	COMPOSITE	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:	Live IV]	☐RC S_perfund	ents	ge1 of1_

Work Order No:

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1809-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1809 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1809-1

SDG Number: 31403236.022.0129 TASK 09.02

List Source: Eurofins Midland

List Creation: 01/10/22 08:22 AM

Login Number: 1809 List Number: 2 Creator: Lowe, Katie

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	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1886-1

Laboratory SDG: 31403236.022.0129 TASK 09.02

Client Project/Site: PLU 25 BS 127H

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 2/1/2022 1:32:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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

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

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Client: WSP USA Inc. Project/Site: PLU 25 BS 127H Laboratory Job ID: 890-1886-1 SDG: 31403236.022.0129 TASK 09.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	

Qualifier

	·
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Datastahla Astivity (Padiashomistry)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

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

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

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)

Too Numerous To Count TNTC

Case Narrative

Client: WSP USA Inc.

Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Job ID: 890-1886-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1886-1

Receipt

The sample was received on 1/28/2022 12:32 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-18105 and analytical batch 880-18112 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCS however, the RPD was in therefore the data was qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18105 and analytical batch 880-18112 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory sample control laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-10637-A-115-B MS) and (880-10637-A-115-C MSD). Evidence of matrix interferences is not obvious.

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.

Matrix: Solid

Lab Sample ID: 890-1886-1

Client Sample Results

Job ID: 890-1886-1 Client: WSP USA Inc.

Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: SS08 Date Collected: 01/28/22 10:32

Date Received: 01/28/22 12:32 Sample Depth: 0.25

Chloride

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/31/22 07:24	01/31/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			01/31/22 07:24	01/31/22 13:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/31/22 07:24	01/31/22 13:07	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/31/22 13:52	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.3		50.0	mg/Kg				
				3 3			01/31/22 13:01	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)		3 3			01/31/22 13:01	1
Method: 8015B NM - Diesel Ran Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	01/31/22 13:01 Analyzed	1 Dil Fac
		Qualifier	RL 50.0		<u>D</u>	Prepared 01/31/22 08:28		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U		Unit	<u> </u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U *+	50.0	<mark>Unit</mark> mg/Kg	<u> </u>	01/31/22 08:28	Analyzed 01/31/22 13:45	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 79.3	Qualifier U *+	50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	01/31/22 08:28	Analyzed 01/31/22 13:45 01/31/22 13:45	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U *+	50.0 50.0 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28	Analyzed 01/31/22 13:45 01/31/22 13:45 01/31/22 13:45	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U *+	50.0 50.0 50.0 <i>Limits</i>	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared	Analyzed 01/31/22 13:45 01/31/22 13:45 01/31/22 13:45 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *+ U Qualifier	50.0 50.0 50.0 Limits 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared 01/31/22 08:28	Analyzed 01/31/22 13:45 01/31/22 13:45 01/31/22 13:45 Analyzed 01/31/22 13:45	Dil Fac

4.97

mg/Kg

378

Eurofins Carlsbad

01/31/22 18:52

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10720-A-1-E MS	Matrix Spike	102	103	
880-10720-A-1-F MSD	Matrix Spike Duplicate	96	97	
890-1886-1	SS08	139 S1+	104	
LCS 880-18098/1-A	Lab Control Sample	102	101	
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99	
MB 880-18098/5-A	Method Blank	98	95	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10637-A-115-B MS	Matrix Spike	66 S1-	62 S1-	
880-10637-A-115-C MSD	Matrix Spike Duplicate	65 S1-	61 S1-	
890-1886-1	SS08	93	95	
LCS 880-18105/2-A	Lab Control Sample	86	85	
LCSD 880-18105/3-A	Lab Control Sample Dup	86	84	
MB 880-18105/1-A	Method Blank	75	80	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Job ID: 890-1886-1 Client: WSP USA Inc. SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BS 127H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18098/5-A

Lab Sample ID: LCS 880-18098/1-A

Lab Sample ID: LCSD 880-18098/2-A

Matrix: Solid

Analysis Batch: 18100 MR MR Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

	1110	1410						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	ı	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/3	/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/3	/31/22 07:24	01/31/22 10:43	1

Client Sample ID: Lab Control Sample

70 - 130

70 - 130

79

77

Prep Type: Total/NA

Prep Batch: 18098

Analysis Batch: 18100 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07904 mg/Kg 79 70 - 130 Toluene 0.100 0.07722 mg/Kg 77 70 - 130 0.100 77 Ethylbenzene 0.07702 mg/Kg 70 - 130

0.1584

0.07663

mg/Kg

mg/Kg

0.200

0.100

m-Xylene & p-Xylene o-Xylene

Matrix: Solid

Analysis Batch: 18100

Matrix: Solid

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18098

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08134		mg/Kg		81	70 - 130	3	35
Toluene	0.100	0.07230		mg/Kg		72	70 - 130	7	35
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg		76	70 - 130	4	35
o-Xylene	0.100	0.07439		mg/Kg		74	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 18098

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08526		mg/Kg		85	70 - 130	
Toluene	<0.00200	U	0.100	0.08078		mg/Kg		81	70 - 130	

Eurofins Carlsbad

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1886-1 SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BS 127H

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

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

Sample	Sample	Бріке	IVIO	IVIO				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130	
<0.00399	U	0.200	0.1659		mg/Kg		83	70 - 130	
<0.00200	U	0.100	0.08128		mg/Kg		81	70 - 130	
	Result <0.00200 <0.00399	Result Qualifier	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit Unit Unit Unit Unit Unit Unit Unit

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18098

Lab Sample ID: 880-10720-A-1-F MSD **Matrix: Solid**

Analysis Batch: 18100

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08653		mg/Kg		87	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.08058		mg/Kg		81	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.07884		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1589		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07941		mg/Kg		80	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-18105/1-A

Matrix: Solid

Analysis Batch: 18112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18105

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/31/22 08:2	01/31/22 11:07	1
o-Terphenyl	80		70 - 130	01/31/22 08:2	8 01/31/22 11:07	1

Lab Sample ID: LCS 880-18105/2-A

Matrix: Solid

Analysis Batch: 18112

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

Prep Batch: 18105

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1112		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1380	*+	mg/Kg		138	70 - 130	
C10-C28)								

Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H

SDG: 31403236.022.0129 TASK 09.02

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-18105/2-A **Client Sample ID: Lab Control Sample**

Limits

70 - 130

Matrix: Solid

Surrogate

Client: WSP USA Inc.

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

1-Chlorooctane 86 o-Terphenyl 85 70 - 130

Lab Sample ID: LCSD 880-18105/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 18112 Prep Batch: 18105

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 978.8 98 70 - 13013 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 1214 121 70 - 13013 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	86	70 - 130
o-Terphenyl	84	70 - 130

Lab Sample ID: 880-10637-A-115-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

Prep Type: Total/NA

Prep Batch: 18105

20

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1024 mg/Kg 99 70 - 130 (GRO)-C6-C10 90.7 *+ F1 Diesel Range Organics (Over 997 739.3 F1 mg/Kg 65 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 66 S1-70 - 130 1-Chlorooctane o-Terphenyl 62 S1-70 - 130

Lab Sample ID: 880-10637-A-115-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 18112

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 996 861.7 83 Gasoline Range Organics mg/Kg 70 - 130 17 20 (GRO)-C6-C10

706.0 F1

mg/Kg

62

70 - 130

996

Diesel Range Organics (Over 90.7 *+ F1 C10-C28)

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	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenvl	61	S1-	70 ₋ 130

Client: WSP USA Inc. Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H

SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18091/1-A

Matrix: Solid

Analysis Batch: 18196

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв Dil Fac Result Qualifier RL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 01/31/22 15:08

Lab Sample ID: LCS 880-18091/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 265.4 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-18091/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 18196

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 107 mg/Kg 90 - 110

Lab Sample ID: 890-1862-A-4-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 281 249 549.6 108 90 - 110 mg/Kg

Lab Sample ID: 890-1862-A-4-F MSD

Matrix: Solid

Analysis Batch: 18196

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 281 546.4 mg/Kg 107 90 - 110 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1886-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

GC VOA

Prep Batch: 18098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	18098
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18098

Analysis Batch: 18172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	8015NM Prep	<u> </u>
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	8015B NM	18105
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015B NM	18105
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18105
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18105
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015B NM	18105
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18105

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Soluble	Solid	DI Leach	
MB 880-18091/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1886-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

HPLC/IC (Continued)

Leach Batch: 18091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1862-A-4-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1862-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1886-1	SS08	Soluble	Solid	300.0	18091
MB 880-18091/1-A	Method Blank	Soluble	Solid	300.0	18091
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	300.0	18091
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18091
890-1862-A-4-E MS	Matrix Spike	Soluble	Solid	300.0	18091
890-1862-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18091

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1886-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: SS08 Lab Sample ID: 890-1886-1

Date Collected: 01/28/22 10:32 Matrix: Solid Date Received: 01/28/22 12:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	18100	01/31/22 13:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18105	01/31/22 08:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18112	01/31/22 13:45	AJ	XEN MID
Soluble	Leach	DI Leach			18091	01/29/22 10:41	CH	XEN MID
Soluble	Analysis	300.0		1	18196	01/31/22 18:52	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Job ID: 890-1886-1 Client: WSP USA Inc. Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Total BTEX

Laboratory: Eurofins Midland

Total BTEX

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

Authority	Р	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	•	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method		NA-1-2		
Analysis Method	Prep Method	Matrix	Analyte	

Solid

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1886-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BS 127H

Job ID: 890-1886-1 SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1886-1	SS08	Solid	01/28/22 10:32	01/28/22 12:32	0.25

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Chain of Custody

Project Number Policy State of Project Policy State State of Project Policy State State of Project Policy State	Revised Date 051418 Rev . 2018 1		σ							5
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Manager: Kalel Jehnings	Date/Time	e) Received by: (Signature)	Belinguished by: (Signature	Date/Time		ra)	paived by: (Signat	D	(Cignoturo)	
REQUEST Reporting:Level II		s previously negotiated.	y the client if such losses are due to circu yzed. These terms will be enforced unless	or expenses incurred by to Xenco, but not analy	ny losses o	ponsibility for ar for each sample	shall not assume any rea roject and a charge of \$5	of samples and pplied to each p	elable only for the cost large of \$75.00 will be a	of service. Xenco will be of Xenco. A minimum ct
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Marriager: Kalel Jennings	5.1 / 7470 / 7471 : Hg	TI U	d Cr Co Cu Pb Mn Mo Ni	Sb As Ba Be C		LP 6010: 8F		o be analyz	d(s) and Metal(s)	Circle Method
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Manager: Kalei Jennings Motion										
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Manager: Kale: Jennings										
Manager: Kalel Jennings										
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Manager: Kalel Jennings Hobbs NM (675-392-7550) Phoenick ZI (480-9355-9900) Atlanta GA (770-449-8900) Tampa FL (813-60000) Www.xenco.com										
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Manager: Kalei Jennings Bill to: (# different) Adrian Baker Work Order C	o, il leceived by 4.50piii	G.		(EPA	er o		Total Containers	NA	Yes	Sample Custody Se
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Hobbs/NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Pagers (Aslei Jennings Bill to: (# different) Adrian Baker WSP USA Company Name: WSP USA Company Name: XTO Energy, Inc. 3300 North A Street Building 1, unit 222 Address: 3104 E Green St ate ZIP: Midland, Texas 79705 City, State ZIP: Carlsbad, NM 8820 PLU 25 BS 127H Email: Kalei jennings@wsp.com ANALYSIS REQUEST www.xenco.com Pagers Comm www.xenco.com www.xenco.com Pagers Comm www.xenco.com www.xenco.com Pagers Comm www.xenco.com Pagers Comm www.xenco.com Program: UST/PST Prownfields State of Project: 817-683-2503	D.2017.03804.CAP.CM	AFE: C)22.0129 Ta	31403236.0	Project Number:
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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Www.xenco.com Page Kalei Jennings Bill to: (if different) Adrian Baker WSP USA Company Name: XTO Energy, Inc. 3300 North A Street Building 1, unit 222 Address: 3104 E Green St State of Project: Reporting:Level II evel III T/UST PRP Midland, Texas 79705 City, State ZIP: Carlsbad, NM 8820 Reporting:Level II evel III T/UST PRP	Other:			sp.com	ngs@ws	Kalei.jennir	Emai		817-683-2503	Phone:
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Www.xenco.com Page Kalei Jennings Bill to: (if different) Adrian Baker WSP USA WSP USA Company Name: XTO Energy, Inc. 3300 North A Street Building 1, unit 222 Address: 3104 E Green St State of Project:		ever		Carlsbad, NM 8820		City, State Z		79705	Midland, Texas	City, State ZIP:
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			Houston, IX (281) 240-4200 Dallas, IX (214) 902-0000 Sali Antoliio, IX (210) 503-5554	dS, 1 \ (2 14) 302-0300	ZOO Dam	, IX (281) 240-4	Housion		XIIZI	

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1886-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1886 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1886-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1886
List Source: Eurofins Midland
List Number: 2
List Creation: 01/31/22 08:21 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1887-1

Laboratory SDG: 31403236.022.0129 TASK 09.02

Client Project/Site: PLU 25 BS 127H

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 2/1/2022 1:32:53 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

IOIGI7 ICCC

Have a Question?



Visit us at:

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

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

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Client: WSP USA Inc. Project/Site: PLU 25 BS 127H Laboratory Job ID: 890-1887-1 SDG: 31403236.022.0129 TASK 09.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualitier Description
4.	100 1/ 1000 1 111

LCS and/or LCSD is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits. Surrogate recovery exceeds control limits, low biased. S1-Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used appreviations 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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1887-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

Job ID: 890-1887-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1887-1

Receipt

The sample was received on 1/28/2022 12:32 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-18105 and analytical batch 880-18112 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCS however, the RPD was in therefore the data was qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18105 and analytical batch 880-18112 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory sample control laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-10637-A-115-B MS) and (880-10637-A-115-C MSD). Evidence of matrix interferences is not obvious.

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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Matrix: Solid

Client Sample Results

Job ID: 890-1887-1 Client: WSP USA Inc.

Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02 **Client Sample ID: SS07** Lab Sample ID: 890-1887-1

Date Collected: 01/28/22 10:30 Date Received: 01/28/22 12:32

Sample Depth: 0.25

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			01/31/22 07:24	01/31/22 13:28	1
,4-Difluorobenzene (Surr)	94		70 - 130			01/31/22 07:24	01/31/22 13:28	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00400	U	0.00400	mg/Kg			01/31/22 13:52	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.7		E0.0					
			50.0	mg/Kg			01/31/22 13:01	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)	50.0	mg/Kg			01/31/22 13:01	
	• •	RO) (GC) Qualifier	50.0	mg/Kg Unit	D	Prepared	01/31/22 13:01 Analyzed	
nalyte Sasoline Range Organics	• •	Qualifier			D	Prepared 01/31/22 08:28		1
canalyte Casoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier	RL	Unit	<u>D</u>		Analyzed	1 Dil Fac
canalyte Casoline Range Organics CARO)-C6-C10 Ciesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U *+	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	01/31/22 08:28	Analyzed 01/31/22 14:07	Dil Fac
Canalyte Casoline Range Organics GRO)-C6-C10 Ciesel Range Organics (Over C10-C28) CHI Range Organics (Over C28-C36)	Result <50.0 70.7	Qualifier U *+	RL 50.0 50.0	Unit mg/Kg mg/Kg	D	01/31/22 08:28	Analyzed 01/31/22 14:07 01/31/22 14:07	1 Dil Fac
Canalyte Casoline Range Organics CANO)-C6-C10 Canoline Range Organics (Over C28) Canoline Range Organics (Over C28-C36) Canoline Range Organics (Over C28-C36)	Result <50.0 70.7 <50.0	Qualifier U *+	RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	D	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28	Analyzed 01/31/22 14:07 01/31/22 14:07 01/31/22 14:07	Dil Fac 1 1 1
Sanalyte Sasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate -Chlorooctane	Result <50.0 70.7 <50.0 %Recovery	Qualifier U *+	RL 50.0 50.0 50.0 <i>Limits</i>	Unit mg/Kg mg/Kg	<u>D</u>	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared	Analyzed 01/31/22 14:07 01/31/22 14:07 01/31/22 14:07 Analyzed	Dil Fac 1 1 Dil Fac Dil Fac
malyte dissoline Range Organics GRO)-C6-C10 diesel Range Organics (Over c10-C28) DII Range Organics (Over C28-C36) durrogate -Chlorooctane -Terphenyl	Result	Qualifier U *+ U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared 01/31/22 08:28	Analyzed 01/31/22 14:07 01/31/22 14:07 01/31/22 14:07 Analyzed 01/31/22 14:07	1 Dil Fac 1 Dil Fac 1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate G-Chlorooctane D-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U *+ U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	D	01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared 01/31/22 08:28	Analyzed 01/31/22 14:07 01/31/22 14:07 01/31/22 14:07 Analyzed 01/31/22 14:07	1 Dil Fac 1 Dil Fac 1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogat
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10720-A-1-E MS	Matrix Spike	102	103	
880-10720-A-1-F MSD	Matrix Spike Duplicate	96	97	
890-1887-1	SS07	113	94	
LCS 880-18098/1-A	Lab Control Sample	102	101	
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99	
MB 880-18098/5-A	Method Blank	98	95	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenzen	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10637-A-115-B MS	Matrix Spike	66 S1-	62 S1-	
880-10637-A-115-C MSD	Matrix Spike Duplicate	65 S1-	61 S1-	
890-1887-1	SS07	88	90	
LCS 880-18105/2-A	Lab Control Sample	86	85	
LCSD 880-18105/3-A	Lab Control Sample Dup	86	84	
MB 880-18105/1-A	Method Blank	75	80	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18098/5-A

Lab Sample ID: LCS 880-18098/1-A

Matrix: Solid Analysis Batch: 18100 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/31/22 07:24	01/31/22 10:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid **Analysis Batch: 18100**

Prep Batch: 18098

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07904		mg/Kg		79	70 - 130	
Toluene	0.100	0.07722		mg/Kg		77	70 - 130	
Ethylbenzene	0.100	0.07702		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1584		mg/Kg		79	70 - 130	
o-Xylene	0.100	0.07663		mg/Kg		77	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-18098/2-A

Analysis Batch: 18100

Prep Type: Total/NA Prep Batch: 18098

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08134		mg/Kg		81	70 - 130	3	35
Toluene	0.100	0.07230		mg/Kg		72	70 - 130	7	35
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg		76	70 - 130	4	35
o-Xylene	0.100	0.07439		mg/Kg		74	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 18098

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08526		mg/Kg		85	70 - 130	
Toluene	<0.00200	U	0.100	0.08078		mg/Kg		81	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1887-1 SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BS 127H

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

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 18098

	Sample	Sample	эріке	IVIO	IVIO				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1659		mg/Kg		83	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08128		mg/Kg		81	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18098

Matrix: Solid

Lab Sample ID: 880-10720-A-1-F MSD

Analysis Batch: 18100

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08653		mg/Kg		87	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.08058		mg/Kg		81	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.07884		mg/Kg		79	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1589		mg/Kg		80	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07941		mg/Kg		80	70 - 130	2	35

MSD MSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

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

Lab Sample ID: MB 880-18105/1-A

Matrix: Solid

Analysis Batch: 18112

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

Prep Batch: 18105

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/31/22 08:28	01/31/22 11:07	1
o-Terphenyl	80		70 - 130	01/31/22 08:28	01/31/22 11:07	1

Lab Sample ID: LCS 880-18105/2-A

Matrix: Solid

Analysis Batch: 18112

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

Prep Batch: 18105

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1112		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1380	*+	mg/Kg		138	70 - 130	
C10-C28)								

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

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

LCS LCS

%Recovery Qualifier

86

85

Lab Sample ID: LCS 880-18105/2-A Client Sample ID: Lab Control Sample

Limits

70 - 130

70 - 130

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

Lab Sample ID: LCSD 880-18105/3-A

Matrix: Solid Analysis Batch: 18112 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18105

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 978.8 98 70 - 13013 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1214 121 mg/Kg 70 - 13013 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 86 o-Terphenyl 84 70 - 130

Lab Sample ID: 880-10637-A-115-B MS Client Sample ID: Matrix Spike

MS MS

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1024 mg/Kg 99 70 - 130 (GRO)-C6-C10 90.7 *+ F1 Diesel Range Organics (Over 997 739.3 F1 mg/Kg 65 70 - 130 C10-C28)

Spike

MS MS %Recovery Qualifier Limits Surrogate 66 S1-70 - 130 1-Chlorooctane o-Terphenyl 62 S1-70 - 130

Lab Sample ID: 880-10637-A-115-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	996	861.7		mg/Kg		83	70 - 130	17	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	90.7	*+ F1	996	706.0	F1	mg/Kg		62	70 - 130	5	20	
C10 C20)												

C10-C28)

MSD MSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	65	S1-	70 - 130
o-Terphenyl	61	S1-	70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18091/1-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 18196

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Dil Fac Result Qualifier RL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 01/31/22 15:08

Lab Sample ID: LCS 880-18091/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 265.4 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-18091/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 107 mg/Kg 90 - 110

Lab Sample ID: 890-1862-A-4-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 18196

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 281 249 549.6 108 90 - 110 mg/Kg

Lab Sample ID: 890-1862-A-4-F MSD

Matrix: Solid

Analysis Batch: 18196

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 281 546.4 mg/Kg 107 90 - 110 20

Eurofins Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1887-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

GC VOA

Prep Batch: 18098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	18098
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18098

Analysis Batch: 18172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	8015NM Prep	
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	8015B NM	18105
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015B NM	18105
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18105
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18105
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015B NM	18105
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18105

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Soluble	Solid	DI Leach	
MB 880-18091/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1887-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

HPLC/IC (Continued)

Leach Batch: 18091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1862-A-4-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1862-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1887-1	SS07	Soluble	Solid	300.0	18091
MB 880-18091/1-A	Method Blank	Soluble	Solid	300.0	18091
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	300.0	18091
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18091
890-1862-A-4-E MS	Matrix Spike	Soluble	Solid	300.0	18091
890-1862-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18091

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1887-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID: 890-1887-1

Client Sample ID: SS07 Date Collected: 01/28/22 10:30 Matrix: Solid Date Received: 01/28/22 12:32

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	18100	01/31/22 13:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18105	01/31/22 08:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18112	01/31/22 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			18091	01/29/22 10:41	СН	XEN MID
Soluble	Analysis	300.0		1	18196	01/31/22 18:37	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Job ID: 890-1887-1 Client: WSP USA Inc. Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included	d in this report, but the laboratory is not ce	ertified by the governing authority. This list ma	av include analytes for wh

nich the agency does not offer certification.

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

XEN MID

ASTM

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1887-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

DI Leach

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BS 127H

Job ID: 890-1887-1 SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1887-1	SS07	Solid	01/28/22 10:30	01/28/22 12:32	0.25

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Revised Date 051418 Rev. 2018 1			6 4			1			5
			123	GB-25	_	An	7) (1)	()	Midda.
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	me	Date/Time		Received by: (Signature)	, Recei	y: (Signature)	Relinquished by: (Signature)
	are due to circumstances beyond the control enforced unless previously negotiated.	nature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its armiates and supcontractors. It assigns standard terms and volunters of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, this client if such losses are due to circumstances beyond the control Xenco will be interested to sample sand shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	s incurred by but not analya	it company to ses or expensi itted to Xenco	se order from clies sibility for any losseach sample subm	onstitutes a valid purcha I not assume any respor t and a charge of \$5 for	amples and shall d to each projec	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Aenco, its atmistes and succontractors 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 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	Notice: Signature of this of service. Xenco will be of Xenco. A minimum of
Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mo Ni K Se Ag SiO2	B Cd Ca Cr Co Cu Fe Pb Mg Mn Cd Cr Co Cu Pb Mn Mo Ni Se Ag	As Ba Be B As Ba Be Co	Al Sb As RA Sb As	ICRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM TCLP/SPLP6	e analyzed	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s)
			\vdash	H	\vdash				
DISCRETE			×	\dashv	0.25	3/22 10:30	01/28/22	07 S	SS07
Sample Comments			BTEX (TPH (E	Depth	Time ed Sampled	Date Sampled	ntification Matrix	Sample Identification
lab, if received by 4:30pm						Total Containers:		Yes No	Sample Custody Seals:
TAT starts the day recevied by the					017	Correction Factor:	WA	Yes No	Cooler Custody Seals:
	Chain of Custody	890-1887 Chain c			atain	LOOM TO			Received Intact:
				_		. 1		7.0	Temperature (°C):
					es No	No Wet Ice:		EIPT Temp Blank:	SAMPLE RECEIPT
) ēē	Due Date		Payton Benner	Sampler's Name:
API: 30-015-45854	AF				Rush: 24HP				P.O. Number:
AFE: DD.2017.03804.CAP.CM	AF					9.02 Routine	0129 Task (31403236.022.0129 Task 09.02	Project Number:
Work Order Notes		ANALYSIS REQUEST			Turn Around	Turn		PLU 25 BS 127H	Project Name:
Other:	Deliverables: EDD ADaPT	Deli		wsp.com	Email: Kalei.jennings@wsp.com	Email: K		817-683-2503	Phone:
	evel	Rep	Carlsbad, NM 8820	Carlsbac	City, State ZIP:	C	S	Midland, Texas 79705	City, State ZIP:
) # *		areen St	3104 E Green St	Address:		Building 1,	3300 North A Street Building 1, unit 222	Address:
ds I∏C 1_perfund ☐	Program: UST/PST ☐RP ☐rownfields	Pro	ergy, Inc.	XTO Energy, Inc	Company Name:	C		WSP USA	Company Name:
nments	Work Order Comments		aker	Adrian Baker	Bill to: (if different)	В		Kalei Jennings	Project Manager:
>age1of1_	www.xenco.com	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)) Atlanta,GA	180-355-0900	0) Phoenix,AZ (obbs,NM (575-392-75			
		Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	(915)585-344	EL Paso,TX	(432-704-5440)	Midland, T.		XMZCO	

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1887-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1887 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1887-1

SDG Number: 31403236.022.0129 TASK 09.02

0D0 Namber: 01400200.022.0120 1AGR 00.02

List Source: Eurofins Midland List Creation: 01/31/22 08:21 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1887

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

Euronnis Carisbau

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1888-1

Laboratory SDG: 31403236.022.0129 TASK 09.02

Client Project/Site: PLU 25 BS 127H

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 2/1/2022 1:33:11 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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

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

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Client: WSP USA Inc. Project/Site: PLU 25 BS 127H Laboratory Job ID: 890-1888-1 SDG: 31403236.022.0129 TASK 09.02

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1888-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description *+ LCS and/or LCSD is outside acceptance limits, high biased.

F1

MS and/or MSD recovery exceeds control limits.

S1-Surrogate recovery exceeds control limits, low biased.

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

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) Limit of Quantitation (DoD/DOE) LOQ

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 MOI Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-1888-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

Job ID: 890-1888-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1888-1

Receipt

The sample was received on 1/28/2022 12:32 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-18105 and analytical batch 880-18112 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCS however, the RPD was in therefore the data was qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18105 and analytical batch 880-18112 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory sample control laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-10637-A-115-B MS) and (880-10637-A-115-C MSD). Evidence of matrix interferences is not obvious.

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

Client: WSP USA Inc.

Job ID: 890-1888-1

Project/Site: PLU 25 BS 127H

SDG: 31403236 022 0129 TASK 09 02

Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Client Sample ID: SS06

Date Collected: 01/28/22 08:50

Matrix: Solid

Date Received: 01/28/22 12:32

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/31/22 07:24	01/31/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			01/31/22 07:24	01/31/22 13:48	1
1,4-Difluorobenzene (Surr)	104		70 - 130			01/31/22 07:24	01/31/22 13:48	1
Method: Total BTEX - Total BTE	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/31/22 13:52	1
	•	O) (GC)						
	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
			RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 01/31/22 13:01	
Total TPH	Result 69.2	Qualifier			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	Result 69.2 ge Organics (D	Qualifier			<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 69.2 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		<u> </u>	01/31/22 13:01	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 69.2 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	01/31/22 13:01 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 69.2 ge Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 01/31/22 08:28	01/31/22 13:01 Analyzed 01/31/22 14:28	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 08:28 01/31/22 08:28	01/31/22 13:01 Analyzed 01/31/22 14:28 01/31/22 14:28	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 69.2 ge Organics (Di Result <50.0 69.2 <50.0	Qualifier RO) (GC) Qualifier U *+	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 08:28 01/31/22 08:28 01/31/22 08:28	01/31/22 13:01 Analyzed 01/31/22 14:28 01/31/22 14:28 01/31/22 14:28	Dil Face 1 1 1 Dil Face
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 69.2	Qualifier RO) (GC) Qualifier U *+	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared	Analyzed 01/31/22 14:28 01/31/22 14:28 01/31/22 14:28 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 69.2	Qualifier RO) (GC) Qualifier U *+ U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared 01/31/22 08:28	01/31/22 13:01 Analyzed 01/31/22 14:28 01/31/22 14:28 Analyzed 01/31/22 14:28	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 69.2	Qualifier RO) (GC) Qualifier U *+ U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 08:28 01/31/22 08:28 01/31/22 08:28 Prepared 01/31/22 08:28	01/31/22 13:01 Analyzed 01/31/22 14:28 01/31/22 14:28 Analyzed 01/31/22 14:28	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1888-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10720-A-1-E MS	Matrix Spike	102	103	
880-10720-A-1-F MSD	Matrix Spike Duplicate	96	97	
890-1888-1	SS06	140 S1+	104	
LCS 880-18098/1-A	Lab Control Sample	102	101	
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99	
MB 880-18098/5-A	Method Blank	98	95	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-10637-A-115-B MS	Matrix Spike	66 S1-	62 S1-	
880-10637-A-115-C MSD	Matrix Spike Duplicate	65 S1-	61 S1-	
890-1888-1	SS06	85	89	
LCS 880-18105/2-A	Lab Control Sample	86	85	
LCSD 880-18105/3-A	Lab Control Sample Dup	86	84	
MB 880-18105/1-A	Method Blank	75	80	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-1888-1 Client: WSP USA Inc. SDG: 31403236.022.0129 TASK 09.02 Project/Site: PLU 25 BS 127H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-18098/5-A

Matrix: Solid Analysis Batch: 18100 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/31/22 07:2	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/31/22 07:2	4 01/31/22 10:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 18098

Prep Type: Total/NA

Prep Batch: 18098

Matrix: Solid Analysis Batch: 18100

Lab Sample ID: LCS 880-18098/1-A

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07904 mg/Kg 79 70 - 130 Toluene 0.100 0.07722 mg/Kg 77 70 - 130 0.100 0.07702 77 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.1584 70 - 130 mg/Kg 79 0.100 0.07663 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 18100

Lab Sample ID: LCSD 880-18098/2-A

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08134		mg/Kg		81	70 - 130	3	35	
Toluene	0.100	0.07230		mg/Kg		72	70 - 130	7	35	
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg		76	70 - 130	4	35	
o-Xvlene	0.100	0.07439		ma/Ka		74	70 ₋ 130	3	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-10720-A-1-E MS

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 18098

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08526		mg/Kg		85	70 - 130	
Toluene	<0.00200	U	0.100	0.08078		mg/Kg		81	70 - 130	

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Prep Batch: 18098

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1888-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: 880-10720-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 18100

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1659		mg/Kg		83	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08128		mg/Kg		81	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 70 - 130 103

Lab Sample ID: 880-10720-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 18100

Prep Batch: 18098 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier %Rec RPD Limit Analyte Added Result Qualifier Limits Unit

Benzene <0.00200 U 0.0996 0.08653 mg/Kg 87 70 - 130 35 Toluene <0.00200 0.0996 0.08058 mg/Kg 81 70 - 130 0 35 Ethylbenzene <0.00200 0.0996 0.07884 79 70 - 130 35 U mg/Kg 3 35 m-Xylene & p-Xylene < 0.00399 U 0.199 0.1589 mg/Kg 80 70 - 130 0.0996 80 70 - 130 o-Xylene <0.00200 U 0.07941 mg/Kg 2

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 96 97 1,4-Difluorobenzene (Surr) 70 - 130

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

Lab Sample ID: MB 880-18105/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 18112

MR MR

	11.0	14.10						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 08:28	01/31/22 11:07	1

MB MB

%Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 01/31/22 08:28 1-Chlorooctane 75 70 - 130 01/31/22 11:07 80 70 - 130 01/31/22 08:28 01/31/22 11:07 o-Terphenyl

Lab Sample ID: LCS 880-18105/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 18112** Prep Batch: 18105

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1000 111 70 - 130 1112 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1380 *+ mg/Kg 138 70 - 130 C10-C28)

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Prep Batch: 18105

Client: WSP USA Inc. Job ID: 890-1888-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

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

Lab Sample ID: LCS 880-18105/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA Prep Batch: 18105

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: LCSD 880-18105/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 978.8 98 70 - 13013 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1214 121 mg/Kg 70 - 13013 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 86 84 70 - 130 o-Terphenyl

Lab Sample ID: 880-10637-A-115-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA

Prep Batch: 18105

Sample Sample MS MS Spike Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1024 mg/Kg 99 70 - 130 (GRO)-C6-C10 90.7 *+ F1 Diesel Range Organics (Over 997 739.3 F1 mg/Kg 65 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits S1-70 - 130 1-Chlorooctane 66 o-Terphenyl 62 S1-70 - 130

Lab Sample ID: 880-10637-A-115-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 18112

Prep Type: Total/NA Prep Batch: 18105

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 996 861.7 83 Gasoline Range Organics mg/Kg 70 - 130 17 20 (GRO)-C6-C10 Diesel Range Organics (Over 90.7 *+ F1 996 706.0 F1 mg/Kg 62 70 - 130 5 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 65 S1-70 - 130 61 S1-70 - 130 o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1888-1 Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18091/1-A

Matrix: Solid

Analysis Batch: 18196

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Dil Fac Result Qualifier RL Unit D Prepared Analyzed <5.00 U 5.00 mg/Kg 01/31/22 15:08

Lab Sample ID: LCS 880-18091/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 265.4 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-18091/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 18196

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 107 mg/Kg 90 - 110

Lab Sample ID: 890-1862-A-4-E MS

Matrix: Solid

Analysis Batch: 18196

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 281 249 549.6 108 90 - 110 mg/Kg

Lab Sample ID: 890-1862-A-4-F MSD

Matrix: Solid

Analysis Batch: 18196

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 281 546.4 mg/Kg 107 90 - 110 20

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Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1888-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

GC VOA

Prep Batch: 18098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 18100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098
880-10720-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	18098
880-10720-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	18098

Analysis Batch: 18172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 18105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	8015B NM	18105
MB 880-18105/1-A	Method Blank	Total/NA	Solid	8015B NM	18105
LCS 880-18105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18105
LCSD 880-18105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18105
880-10637-A-115-B MS	Matrix Spike	Total/NA	Solid	8015B NM	18105
880-10637-A-115-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18105

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 18091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Soluble	Solid	DI Leach	
MB 880-18091/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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2/1/2022

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1888-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

HPLC/IC (Continued)

Leach Batch: 18091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1862-A-4-E	MS Matrix Spike	Soluble	Solid	DI Leach	
890-1862-A-4-F	MSD Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 18196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1888-1	SS06	Soluble	Solid	300.0	18091
MB 880-18091/1-A	Method Blank	Soluble	Solid	300.0	18091
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	300.0	18091
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18091
890-1862-A-4-E MS	Matrix Spike	Soluble	Solid	300.0	18091
890-1862-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18091

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Lab Chronicle

Job ID: 890-1888-1 Client: WSP USA Inc. Project/Site: PLU 25 BS 127H SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID: 890-1888-1

Matrix: Solid

Client Sample ID: SS06				
Date Collected: 01/28/22 08:50				
Date Received: 01/28/22 12:32				

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		1	18100	01/31/22 13:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			18105	01/31/22 08:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1	18112	01/31/22 14:28	AJ	XEN MID
Soluble	Leach	DI Leach			18091	01/29/22 10:41	СН	XEN MID
Soluble	Analysis	300.0		1	18196	01/31/22 18:44	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1888-1 Project/Site: PLU 25 BS 127H

SDG: 31403236.022.0129 TASK 09.02

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
A al: - Made - al				
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-1888-1

 Project/Site: PLU 25 BS 127H
 SDG: 31403236.022.0129 TASK 09.02

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU 25 BS 127H

Job ID: 890-1888-1

SDG: 31403236.022.0129 TASK 09.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1888-1	SS06	Solid	01/28/22 08:50	01/28/22 12:32	0.25

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	gnature)	Received by: (Signature	signature)	Relinquished by: (Signature)
	It assigns standard terms and conditions re due to circumstances beyond the control reformed unless previously negotiated.	iliates and subcontractors. It assigns standard terms and cond y the client if such losses are due to circumstances beyond the c yzed. These terms will be enforced unless previously negotiated	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 a 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 e	lid purchase order from c ny responsibility for any of \$5 for each sample su	amples constitutes a va and shall not assume a ch project and a charge	ment and relinquishment of s e only for the cost of samples of \$75.00 will be applied to ea	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 at 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 et
Na Sr Tl Sn U V Zn 1631/245.1/7470/7471:Hg	i K Se Ag SiO2	Cd Ca Cr Co Cu Fe d Cr Co Cu Pb Mn M	Sb As Ba Be Sb As Ba Be	CRA 13PPM Texas 11 A	8	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) :
CO			× ×	0.23	01/28/22	o.	8806
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Sample Comments	φ.		TPH (EI	ne Depth	Date Time Sampled Sampled	cation Matrix	Sample Identification
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tarts the day recevied by the	-)15) : 0=80	actor: -0.2	Correction Factor:	6	Cooler Custody Seals:
	of Custody	890-1888 Chain of Custody	24 R	4	DO MIN		Received Intact:
					Ther	2	Temperature (°C):
				Wet Ice: Yes No	(Ye) No W	Temp Blank:	SAMPLE RECEIPT
				Due Date:		Payton Benner	Sampler's Name: Pa
API: 30-015-45854	API: 3			Rush: 24 HP			P.O. Number:
AFE: DD.2017.03804.CAP.CM	AFE: [Routine []	Task 09.02	31403236.022.0129 Task 09.02	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around		PLU 25 BS 127H	Project Name: PL
Other:	Deliverables: EDD ADaPT	Deliv	s@wsp.com	Email: Kalei.jennings@wsp.com	_	817-683-2503	Phone: 81
LRP LIvel IV	evel III	Repo	Carlsbad, NM 8820	City, State ZIP:		Midland, Texas 79705	City, State ZIP: Mi
]	ו הד	S	3104 E Green St	Address:	ding 1, unit 222	3300 North A Street Building 1, unit 222	Address: 33
☐RC ⑤perfund ☐	☐RP ☐rownfields	Prog	e: XTO Energy, Inc.	Company Name:		WSP USA	
nts	Work Order Comments		Adrian Baker	Bill to: (if different)		Kalei Jennings	Project Manager: Ka
le1of1	o) www.xenco.com ^{>} age	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 575-392-7550) Phoenix,AZ (480-355-0900) Atlantia,GA (770-449-8800) Tampa,FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa	lidland,TX (432-704-54) 5-392-7550) Phoenix,A	Hobbs,NM (57	LABORATORIES	LABI
		San Antonio, I X (210) 509-3334	0 Dallas, IX (214) 902-0300	uston.TX (281) 240-420	T.		

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1888-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1888 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

27 oj 220

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1888-1

SDG Number: 31403236.022.0129 TASK 09.02

Login Number: 1888 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/31/22 08:21 AM

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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 80526

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	80526
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Closure Report Approved. Please apply 19.15.29.13 NMAC when P&A of site.	2/16/2022