District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

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Incident ID	NAPP2129540554
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Longitude

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

(NAD 83 in decimal degrees to 5 decimal places)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

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

Page 2

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

Initial Response

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

The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature: afris	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>10/27/2021</u>

NAPP2129540554

Location:	PLU 30 Big Sinks 107H		
Spill Date:	10/15/2021		
	Area 1		
Approximate A	rea =	33.69	cu.ft.
	VOLUME OF LEAK		•
Total Crude Oil	=	0.00	bbls
Total Frac Fluid	=	6.00	bbls
	Area 2		
Approximate A	rea =	207.00	sq. ft.
Average Satura	tion (or depth) of spill =	1.25	inches
			-
Average Porosi	ty Factor =	0.03	

VOLUME OF LEAK	
Total Crude Oil =	0.00 bbls
Total Frac Fluid=	0.12 bbls

TOTAL VOLUME	OF LEAK	
Total Crude Oil =	0.00	bbls
Total Frac Fluid=	6.12	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Frac Fluid =	6.00	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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	57523
	Action Type:
	[C-141] Release Corrective Action (C-141)
	·

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	10/27/2021

CONDITIONS

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Action 57523

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Oil Conservation Division

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Incident ID	nAPP2129540554
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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 X 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 X 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 X No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🕅 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗶 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗶 No

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

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

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

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

Received by OCD: 3/24/2 Form C-141	22 7:51:08 AM State of New Mexi	ico		Incident ID	Page 6 of 120
Page 4	Oil Conservation Div	vision			TIAFF2129340334
Tugo T				District RP	
				Facility ID	
				Application ID	
regulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email: <u>Adrain.Ba</u>	ormation given above is true and complete required to report and/or file certain rele ument. The acceptance of a C-141 report gate and remediate contamination that po of a C-141 report does not relieve the ope <u></u>	ease notifications t by the OCD doe ose a threat to gro erator of responsi	and perform co s not relieve the undwater, surfa- bility for compl Environmen <u>1/13/2022</u>	rrective actions for rele operator of liability sho ce water, human health iance with any other feo tal Coordinator	ases which may endanger ould their operations have or the environment. In deral, state, or local laws —
OCD Only Received by:			Date:		

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Oil Conservation Division

Incident ID	nAPP2129540554
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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.

<u>Closure Report Attachment Checklist</u> : Each of the following it	items must be included in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
Description of remediation activities						
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.					
Printed Name: <u>Adrian Baker</u>	Title:Environmental Coordinator					
Signature: Adrian Baker	Date: <u>1/13/2022</u>					
email: <u>Adrian.Baker@exxonmobil.com</u>	Telephone:432-263-3808					
OCD Only						
Received by:	Date:					
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.					
Closure Approved by:	Date: 07/25/2022					
Printed Name: Jennifer Nobui	Title: Environmental Specialist A					
_						

WSP USA

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

March 16, 2022

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

RE: Closure Request PLU 30 Big Sinks 107H Incident Number nAPP2129540554 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Poker Lake Unit (PLU) 30 Big Sinks 107H (Site) in Unit H, Section 30, Township 25 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of frac fluid at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2129540554.

Please note, this Closure Request is a resubmittal of the January 11, 2022, report with additional information regarding composition of the released frac fluid.

RELEASE BACKGROUND

On October 15, 2021, the blender motor lost power during pumping operations and resulted in the release of 6.12 barrels (bbls) of frac fluid into the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 6.00 bbls of frac fluid were recovered from within the lined containment. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) District II office on a Release Notification Form C-141 (Form C-141) on October 22, 2021. The release was assigned Incident Number nAPP2129540554.

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

District II Page 2

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on recent soil borings drilled for determination of regional groundwater depth. During April 2021, WSP installed a soil boring (C-04500) utilizing a truck-mounted auger drill rig 1.4 miles east of the Site. Soil boring C-04500 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at the borehole is greater than 110 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04500 is provided on Figure 1.

During February 2021, WSP installed a soil boring (C-04498) utilizing a truck-mounted auger drill rig 1.7 miles west of the Site. Soil boring C-04498 was drilled to a depth of 109 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 109 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04498 POD 1 is provided on Figure 1.

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

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

District II Page 3

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 4, 2021, WSP personnel visited the Site to evaluate the release extent outside of containment based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) and are presented on Figure 2.

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

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01, SS02, and SS03. To further evaluate for the presence or absence of impacted soil, additional lateral and vertical assessment activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On December 1, 2021, WSP personnel returned to the Site to oversee additional lateral and vertical assessment activities to confirm the absence of impacted soil. Potholes PH01 through

District II Page 4

PH03 were advanced via backhoe at the SS01 through SS03 preliminary soil sample locations. Two soil samples were collected from each pothole at depths of approximately 1-foot and 2 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations from the potholes were documented on lithologic/soil sampling logs which are included in Attachment 2. Additionally, soil samples SS04 through SS08 were collected from a depth of 0.5 feet bgs around the release extent to confirm the lateral extent of the release. The pothole and soil sample locations are depicted on Figure 3. Photographic documentation was conducted during the Site Visit. A photographic log is included in Attachment 3.

Laboratory analytical results for pothole soil samples PH01/PH01A through PH03/PH03A and soil samples SS04 through SS08 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and provided lateral and vertical delineation to below the most stringent Table 1 Closure Criteria. The soil sample analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the October 15, 2021 release of frac fluid. Laboratory analytical results for the preliminary and delineation soil samples, collected within and around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table 1 Closure Criteria.

Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO respectfully requests NFA for Incident Number nAPP2129540554.

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

Sincerely,

WSP USA Inc.

Gladice Green

Hadlie Green Assistant Consultant, Geologist

Ashley L. Ager

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

vsp

District II Page 5

cc: Shelby Pennington, XTO Adrian Baker, XTO Bureau of Land Management

Attachments:

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

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FIGURES

Released to Imaging: 7/25/2022 9:40:55 AM



Released to Imaging: 7/25/2022 9:40:55 AM

P:XTO Energy\GIS\31403236.029.02_PLU 30 BIG SINKS 107H\WXD\31403236.029.02_FIG01_SL_RECEPTOR_2022.mxd





Received by OCD: 3/24/2022 7:51:08 AM

TABLES

Table 1

Soil Analytical Results PLU 30 Big Sinks 107H Incident Number nAPP2129540554 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 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000	
Preliminary Soil San	Preliminary Soil Samples										
SS01	11/04/2021	0.5	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	537	
SS02	11/04/2021	0.5	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	2,260	
SS03	11/04/2021	0.5	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	2,210	
Delineation Soil Sam	ples										
SS04	12/01/2021	0.5	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	152	
SS05	12/01/2021	0.5	< 0.00201	< 0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	477	
SS06	12/01/2021	0.5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	145	
SS07	12/01/2021	0.5	< 0.00202	< 0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	241	
SS08	12/01/2021	0.5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	313	
PH01	12/01/2021	1	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	456	
PH01A	12/01/2021	2	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	210	
PH02	12/01/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	131	
PH02A	12/01/2021	2	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	9.17	
PH03	12/01/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	297	
PH03A	12/01/2021	2	< 0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	146	

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

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Released to Imaging: 7/25/2022 9:40:55 AM



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. (WELL NO.) POD1 (BH-01)							OSE FILE NO(S). C-4500				
OCATI	WELL OWNE XTO Energ							PHONE (OPTIC	PHONE (OPTIONAL)			
WELL I	well owner mailing address 6401 Holiday Hill Dr.					CITY Midland		state TX	7 9 707	ZIP		
GENERAL AND WELL LOCATION	WELL LOCATION		DE	GREES 32	32 6 6.96 _N			ACCURACY REQUIRED: ONE TENTH OF A SECOND ADATUM REQUIRED: WGS 84				
NER	(FROM GP	LOI	NGITUDE	103	47	6.75						
1. GE	DESCRIPTIO SE NW Se		IG WELL LOCATION TO S R31E	STREET ADDI	RESS AND COMMON	LANDMA	RKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVA	ILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER					NAME OF WELL DRI	LLING C	OMPANY	
	124	.9		•	Jackie D. Atkins				Atkins Eng	incering	Associates, In	nc.
	DRILLING ST 03/24/2		DRILLING ENDED 03/24/2021		MPLETED WELL (FT rary well material			le depth (ft) 110	DEPTH WATER FIRS	T ENCOU n/a		
Z	COMPLETED	WELL IS:	ARTESIAN	🔽 DRY HOI	E T SHALLOW	W (UNCON	IFINED)		STATIC WATER LEV	EL IN CO n/a		LL (FT)
OL	DRILLING FL	JUID:	AIR	MUD	ADDITIVE	es – speci	IFY:			-0-2		
ORMA	DRILLING METHOD: ROTARY			HAMMER CABLE TOOL 7 OTHER - SPECIFY:		Hollow Stem Auger						
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM	CASING MATERIAL AND/OR GRADE		CASING CONNECTION		I I I		NG WALL CKNESS	SLOT SIZE	
ASID			(inches)	(include each casing string, and note sections of screen)		and		TYPE ling diameter)	(inches)		inches)	(inches)
3	0	110	±6.5		Boring- HSA						**	
ŊŊ												
ILLU				-			_					
DR				-								
નં												
			_									
			-									
				1								
L I	DEPTH ((feet bgl) TO	BORE HOLE DIAM. (inches)		ST ANNULAR SE VEL PACK SIZE-1				AMOUNT (cubic feet)		METHO: PLACEM	
ERL	TROW	10										_
3. ANNULAR MATERIAL												
RM										10 11 14		ng
NLA									had but have but 2 - 22.5	11	Alla Provos	2
NN												
3. 4												
	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17)											

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

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						_		_			
	DEPTH (feet bgl) THICKNESS COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (feet) FROM TO TO Include water-bearing cavities or fracture zones (attach supplemental sheets to fully describe all units)						s	WA BEAR (YES)	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	0	1	1	Calic	che, no odor, no stain, tan, li	ght-brow	מי		Y	√ N	
	1	3	2		in, m-f, well sorted, brown, t			tion	Y	√ N	
	3	7	4	Sandy clay, no odor, n	o stain, m-f, brown, well sor	ted, low	plasticity, coh	esive	Y	√ N	
	7	23	16		wn sand, m-f grained, poorly				Y	√ N	
	23	110	87		r, no stain, fine grained, well				Y	√ N	
					, , , ,				Y	N	
4. HYDROGEOLOGIC LOG OF WELL				·					Y	N	
JF W								_	Y	N	
000		,							Y	N	
CL				· · · · · · · · · · · · · · · · · · ·				-	Y	N	
ЮĊ			17						Y	N	
TOT						_			Y	N	
150		(-	Y	N	
HQX									Y	N	
4. H									Y	N	
		-							Y	N	
-									Y	N	
								_	Y	N	
									Y	N	
									Y	N	
		A							Y	N	
	METHODI	SED TO ES	TIMATE VIELD	OF WATER-BEARING	2 879 4 7 4 .			TOT	AL ESTIN		
		_	RLIFT		HER - SPECIFY:				L YIELD		0.00
NO	WELL TES	TEST	RESULTS - ATT I TIME, END TH	ACH A COPY OF DAT ME, AND A TABLE SH	A COLLECTED DURING IOWING DISCHARGE AN	WELL I D DRAY	ESTING, INC WDOWN OVI	LUDI ER THI	NG DISC E TESTIN	HARGE I IG PERIC	METHOD, DD.
TEST; RIG SUPERVISION	MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.								w ground		
EST;	DD INFT MAN		מממוזה מונסבים	VISOD(S) TUAT DOOL	VIDED ONSITE SUPERVI	SION	FWELL CON	STRIM	TION O	THER TU	AN LICENSEF.
5. TH	Shane Eldric		NILL KIQ SUPER	THIS THAT PRO	A DED ONSITE SUPERVI	SION U	WELL CON			IIIEK IF	IAN LICENDEE:
SIGNATURE	CORRECT F	ECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WIL PLETION OF WELL DRILL	L FILE '	GE AND BEL FHIS WELL F	IEF, TI LECOR	HE FORE D WITH	GOING I THE STA	S A TRUE AND ATE ENGINEER
6. SIGN	Jack K	1 tkins		Jac	kie D. Atkins				05/05	5/2021	
Ť		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE 1	NAME					DATE	
FOI	R OSE INTERI	NAL LIGE					WR-20 WF	LLRF	CORD &		rsion 06/30/2017)
	E NO.	AL USE			POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State E	ngineer Well Number: <u>C-4500- POD1</u>		
Well o	wner: XTO ENERGY (Kyle Littrell)	Phone No.:	432.682.8873
	g address: 6401 Holiday Hill Dr.		
City:	Midland State:	Texas	Zip code:
<u>n. w</u>	ELL PLUGGING INFORMATION:		
1)	Name of well drilling company that plugged well:	ackie D. Atkins (Atkins Engineer	ing Associates Inc.)
2)	New Mexico Well Driller License No.: 1249	Ex;	piration Date:
3)	Well plugging activities were supervised by the follow Shane Eldridge	ving well driller(s)/rig superviso	or(s):
4)	Date well plugging began: 04/27/2021	Date well plugging conclude	ed: 04/27/2021
5)		deg, <u>6</u> min, <u>6.9</u> deg, <u>47</u> min, <u>6.7</u>	6sec 5sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as: by the following manner: weighted tape	ft below ground leve	el (bgl),
7)	Static water level measured at initiation of plugging:	ft bgl	
8)	Date well plugging plan of operations was approved b	by the State Engineer:12/01/2	020
9)	Were all plugging activities consistent with an approv differences between the approved plugging plan and t	red plugging plan? Yes he well as it was plugged (attack	If not, please describe h additional pages as needed):
			0SE 0.1 N 5 2021 ∞6 3.7

Version: September 8, 2009 Page 1 of 2

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

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 <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
1 1	0-10' Hydrated Bentonite	Approx.15.8 gallons	16 gallons	Augers	
-	10'-110'				
	Drill Cuttings	Approx. 172 gallons	172 gallons	Boring	
-					
-					
-					
-		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	BY AND OBTAIN 1805 = gallons 17 = gallons	1956 D.1	, MAY 5 2621 • *3:00

For each interval plugged, describe within the following columns:

III. SIGNATURE:

I, Jackie D. Atkins

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

Jack Atkins

05/05/2021

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

PAGE 1 OF 2

WELL TAG ID NO.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

05E 011 V 1R 11 2021 PH4:22

										14	0.	
NO	OSE POD NO. (POD1 (BH-)	we n/a	ILL TAG ID NO.			OSE FILE NO C-4498	(S).	5 2		
OCATI	well owner XTO Energy		ittrell)	(s).				PHONE (OP)	IONAL)	"ADI	720	
WELL L	WELL OWNER 6401 Holiday							CITY Midland		state TX	79707	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		ITUDE	grees 32° 103°	MINUTES : 6' 50'	SECONDS 1.96" 26.19"	N		Y REQUIRED: ONE TEN SQUIRED: WGS 84	TH OF A SEC	XOND	
1. GEI	DESCRIPTION NW SW NE			STREET ADDRESS	AND COMMON LA	ANDMARE	KS – PLSS	(SECTION, T	OWNSHJIP, RANGE) WH	IERE AVAIL	ABLE	
	license no. 1249		NAME OF LICENSED		ie D. Atkins				NAME OF WELL DR Atkins Eng	ILLING COM gineering A		nc.
	DRILLING STA 02/24/20		DRILLING ENDED 02/24/2021	DEPTH OF COMPL temporary	ETED WELL (FT) well material	BO		e depth (ft) 09	DEPTH WATER FIR	st encoun n/a	TERED (FT)	
N	COMPLETED V	WELL IS:	ARTESIAN	🔽 DRY HOLE	SHALLOW ((UNCONFI	NED)		STATIC WATER LEV	VEL IN COMI n/a	PLETED WE	LL (FT)
DITI	DRILLING FLU	JID:	AIR	☐ MUD	ADDITTVES	- SPECIFY	ř:					
RM	DRILLING MET	THOD:	ROTARY	HAMMER	CABLE TOO	DL 🔽	OTHER	- SPECIFY:	Hollo	ow Stem A	uger	
2. DRILLING & CASING INFORMATION	DEPTH (fe FROM	eet bgl) TO	BORE HOLE DIAM (inches)	G (include each	TERIAL AND/O RADE casing string, an ons of screen)	nd	CONN	SING ECTION (PE ng diameter)	CASING INSIDE DIAM. (inches)	THICH	3 WALL KNESS hes)	SLOT SIZE (inches)
& C/	0	109	±6.5		ng- HSA					-	-	
ING												
SILL						_						
2. DF									· ·			·
	DEPTH (fe	eet bel)	BORE HOLE	I IST /	NNULAR SEA	LMATE	RIAT. A7		AMOUNT		METHO	
AL	FROM	TO	DIAM. (inches)		PACK SIZE-R				(cubic feet)		PLACEM	
TERI												
MA'												
ILAR		_										
ANNULAR MATERIAL												
3. A												
	OSE INTERN. NO.	AL USE			POD NO.			WR-	20 WELL RECORD	& LOG (Ve	rsion 06/30)/17)

LOCATION

.

								2º	
	DEPTH (f	eet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL E R-BEARING CAVITIES O plemental sheets to fully do	R FRAC	TURE ZONES	WATER BEARING? (YES7NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	34	34	Cali	che, tan, no odor, no stain, g	ravel, dr	у	Y √N	
	34	40	6	sand/ cacliche,	tan, no odor, no stain, m-f g	rain, wel	l sorted, dry	Y √N	
	40	56	16	sand, tan, 1	no odor, no stain, m-f grain,	well sort	ed, dry	Y VN	
	56	72	16	sandstone, low consoli	idation, tan, no odor, no stain	ı, m-f gra	in, well sorted, dry	Y √N	
	72	79	7	sand, tan, 1	no odor, no stain, m-f grain,	well sort	ed, dry	Y √N	
1	79	109	30	sandstone, low - mediu	m consolidation, tan, no odo	r, m-f gr	ained, well sorted,	m Y √N	
4. HYDROGEOLOGIC <mark>LOG</mark> OF WELL								Y N	
OF V						_		Y N	
ğ								Y N	
拉								Y N	
Đ								Y N	
EOI								Y N	
505								Y N	
IQX								Y N	
+ H			· · · · · · · · · · · · · · · · · · ·	n				Y N	
								Y N	
								Y N	
								Y N	
								Y N	
						_		Y N Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:			TAL ESTIMATED ELL YIELD (gpm):	0.00
	PUMP		IR LIFT	BAILER OT	HER SPECIFY:			Cherry (gpm).	0.00
NO	WELL TEST				A COLLECTED DURING IOWING DISCHARGE AN				
TEST; RIG SUPERVISION	MISCELLAN	EOUS INF	te	emporary well materia et below ground surfa ogs adapted from WSI	als removed and the soil b ce, then hydrated bentoni P on-site geologist.	oring b te chips	ackfilled using dr from ten feet bei	ill cuttings from too ow ground surface	al depth to ten to surface.
EST	PRINT NAM	E(S) OF DI	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION O	WELL CONSTRU	UCTION OTHER TH	AN LICENSEE:
5. T	Shane Eldrid								
ATURE	CORRECT R	ECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WIL PLETION OF WELL DRILL	L FILE ?	GE AND BELIEF, THIS WELL RECO	THE FOREGOING I DRD WITH THE STA	S A TRUE AND TE ENGINEER
6. SIGNATURE	Jack K	tkins		Jac	ckie D. Atkins			03/11/2021	
÷.		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME			DATE	
FO	R OSE INTERI	IAL USE					WR-20 WELL R	ECORD & LOG (Ver	sion 06/30/2017)
	E NO.				POD NO.		TRN NO.		
LO	CATION					WELL	TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



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

I. GENERAL / WELL OWNERSHIP:

State	Engineer Well Number:	3- POD1		
	owner: XTO ENERGY (Kyle Lit		Phone No.:	432.682.8873
Maili	ng address:6401 Holiday Hill D	г.		
	Midland		Texas	Zip code:
u. w 1)	VELL PLUGGING INFORMA Name of well drilling compa). Atkins (Atkins Engine	ering Associates Inc.)
l)		my mat progged went.		
2)	New Mexico Well Driller Li	cense No.:	E	xpiration Date:

- Shane Eldridge
- 4) Date well plugging began: 03/02/2021 Date well plugging concluded: 03/02/2021
- 5) GPS Well Location: Latitude: <u>32</u> deg, <u>6</u> min, <u>1.96</u> sec Longitude: <u>-103</u> deg, <u>50</u> min, <u>26.19</u> sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: <u>109</u> ft below ground level (bgl), by the following manner: <u>weighted tape</u>
- 7) Static water level measured at initiation of plugging: ______ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: <u>12/01/2020</u>
- 9) Were all plugging activities consistent with an approved plugging plan? <u>Yes</u> If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages 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.

<u>Depth</u> (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 <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
	10'-109' Drill Cuttings	Approx. 171 gallons	171 gallons	Boring	FZ ADITO
				OSE DIT M	AR 11 2021 M4:22
l i i i					
			AND OBTAIN		
III SIGN	ATHER.	Cubic feet x 7.4 cubic yards x 201.9	1805 = gallons		

For each interval plugged, describe within the following columns:

III. SIGNATURE:

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

Jack Atkins

03/11/2021 Date

Signature of Well Driller

Version: September 8, 2009 Page 2 of 2



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category:

Groundwater

Geographic Area: United States

 \mathbf{v}

GO

 \checkmark

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 320643103465002

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320643103465002 25S.31E.21.413314A

Available data for this site Groundwater: Field measurements GO V

Eddy County, New Mexico

Hydrologic Unit Code 13070001

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

Land-surface elevation 3,374.00 feet above NGVD29

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

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

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

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey Title: Ground water for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels? Page Contact Information: USGS Water Data Support Team Page Last Modified: 2021-12-06 15:54:16 EST 0.57 0.51 nadwid2



Received by OCD: 3/24/2022 7:51:08 AM

•

		WSP USA		BH or PH Name: PH01 Date: 12/01/2021
	5	08 West Stevens	Street	Site Name: PLU 30 Big Sinks 107H
	Car	08 West Stevens S Isbad, New Mexico		
				WSP Job Number: 31403236.029
LIIH Lat/Long:	OLOGIC / SOIL	Field Screening:	G	Logged By: AC Method: Backhoe Hole Diameter: 20" Total Depth: 4'
32.102227, -103.810323		Hatch Chloride Strip	s, PID	
Comments: All chloride field screens	any correction facto	r of 40%		· · ·
Moisture Content Chloride (ppm) Vapor (ppm)	_ #	Sampl e Depth Depth (ft bgs) (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D 0747 00		0		
D 274.7 0.3	N PH01			E CALICHE, WHITE/LIGHT BROWN, DRY, POORLY COMPACTED, NO STAIN OR ODOR
D 319.2 0.2	N PH01A	2 <u>2</u> 2 — —	CCHE	
D 319.2 0.2	N	- 3 	CCHE	
D 319.2 0.7	Ν	_ 4	CCHE	E SAA

.

					WS	SP USA			BH or PH Name: PH02	Date: 12/01/2021
	508 West Stevens Street							Site Name: PLU 30 Big Sink	s 107H	
						RP or Incident Number: nAP				
		_							WSP Job Number: 3140323	6.029
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	G		Logged By: AC	Method: Backhoe
Lat/Lo					Field Scre	ening:			Hole Diameter: 20"	Total Depth: 4'
	2166, -103	.810321			Hatch Chl	oride Strip	s, PID			
Comm		screens h	ave co	rrection facto	r of 40%					
7 (11 011)		301001131					×			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sampl e Depth	Depth (ft bgs)	USCS/Rock Symbol		Litholo	gy/Remarks
ΩMo	ЧО А	> 4	Sta	Sar	(ft bgs)		USC Sy			
					-	0				
D	235.2	0.6	Ν	PH02	1	1	SP		ORY, DARK BROWN, F D, NO STAIN OR ODO	INE GRAINED, POORLY R
D	<168	0.4	Ν	PH02A	2	2	CCHE	CALICH NO STA	E, WHITE/LIGHT BRO' IN OR ODOR	WN, DRY, POORLY COMPACTED
D	<168	0.5	Ν		-	3	CCHE	SAA		
D	<168	0.2	N		-	4	CCHE	SAA		

.

					WS	SP USA			BH or PH Name: PH03	Date: 12/01/2021
				5	08 West	Stevens 9	Street	ŀ	Site Name: PLU 30 Big Sinks	s 107H
							RP or Incident Number: nAP			
							-	WSP Job Number: 31403236.029		
		LITHO	DLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: AC	Method: Backhoe
Lat/Long:					Field Scre	ening:			Hole Diameter: 20"	Total Depth: 4'
32.102262,		310340			Hatch Chl	loride Strip	s, PID			
Comments		oroono h		rrection facto	r of 100/					
All chionde	e lielu si	creens n	ave co	TECTOT IACTO		1	~	1		
Moisture Content Chloride	(mqq)	Vapor (ppm)	Staining	Sample #	Sampl e Depth (ft bgs)		USCS/Rock Symbol		Litholog	gy/Remarks
					-	0				
D 41	4.7	0.2	Ν	PH03	1	1	CCHE		E, WHITE/LIGHT BRON N OR ODOR	WN, DRY, POORLY COMPACTED,
D 36	64.0	0.1	Ν	PH03A	2	2	CCHE	SAA		
D 19	96.0	0.1	Ν		-	3	CCHE	SAA		
D 16	68.0	0.2	Ν		-	4	CCHE	SAA @ 4 ft bg		

Received by OCD: 3/24/2022 7:51:08 AM

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 30 Big Sinks 107H	nAPP2129540554
	Eddy County, NM	

to No. Date
1 November 4, 2021
facing east of release extent ng from the October 15, 2021 spill.

Photo No.	Date	
2	December 1, 2021	
View of PH0	1 to the west of	B in an far St
contai	inment.	
		and the second sec
		A CONTRACTOR OF THE STATE
		and the state
		to say of the

•

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU 30 Big Sinks 107H	nAPP2129540554
	Eddy County, NM	

Photo No.	Date
3	December 1, 2021
	H02 to the west of
containment.	

Photo No.	Date
4	December 1, 2021
View west of PH03 to the east of	
containment.	

•
Received by OCD: 3/24/2022 7:51:08 AM

Released to Imaging: 7/25/2022 9:40:55 AM

Received by OCD: 3/24/2022 7:51:08 AM

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

🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1541-1

Laboratory Sample Delivery Group: 31403236.029 TASK 02.02 Client Project/Site: PLU 30 BS 107H

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/12/2021 9:27:56 AM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

Have a Question? Ask-The Expert Visit us at: www.eurofinsus.com/Env

..... LINKS

Review your project results through

Total Access

Released to Imaging: 7/25/2022 9:40:55 AM

Laboratory Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

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Definitions/Glossary	3
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Client Sample Results	5
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QC Association Summary	13
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Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
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Page 40 of 120

Job ID: 890-1541-1
SDG: 31403236.029 TASK 02.02

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
E	Result exceeded calibration range.	8
U	Indicates the analyte was analyzed for but not detected.	
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
<u>¤</u>	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)	40
Dil Fac	Dilution Factor	13
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

4

5

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Job ID: 890-1541-1

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1541-1

Receipt

The samples were received on 11/5/2021 2:57 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 sample was outside control limits: (MB 880-11848/1-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

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

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Lab Sample ID: 890-1541-1

Matrix: Solid

5

Client Sample ID: SS01 Date Collected: 11/04/21 12:03 Date Received: 11/05/21 14:57 Sample Depth: 0.5

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 13:43	
Toluene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 13:43	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 13:43	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/09/21 08:29	11/09/21 13:43	
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 13:43	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/09/21 08:29	11/09/21 13:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	117		70 - 130			11/09/21 08:29	11/09/21 13:43	
1,4-Difluorobenzene (Surr)	95		70 - 130			11/09/21 08:29	11/09/21 13:43	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/10/21 11:29	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			11/11/21 15:00	
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		11/09/21 15:18	11/09/21 23:14	
(GRO)-C6-C10				0.0				
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 23:14	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 23:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			11/09/21 15:18	11/09/21 23:14	
o-Terphenyl	120		70 - 130			11/09/21 15:18	11/09/21 23:14	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	537		4.98	mg/Kg			11/11/21 21:22	
lient Sample ID: SS02						Lab San	nple ID: 890-	1541-
ate Collected: 11/04/21 12:06								x: Soli

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/09/21 08:29	11/09/21 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			11/09/21 08:29	11/09/21 14:03	1

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11/12/2021
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Client Sample Results

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Lab Sample ID: 890-1541-2

Matrix: Solid

5

11 12 13

Date Collected: 11/04/21 12:06 Date Received: 11/05/21 14:57

Project/Site: PLU 30 BS 107H

Client Sample ID: SS02

Client: WSP USA Inc.

Sample	Depth:	0.5	

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	124		70 - 130			11/09/21 08:29	11/09/21 14:03	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/10/21 11:29	1
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/11/21 15:00	1
Method: 8015B NM - Diesel Rang	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		11/09/21 15:18	11/09/21 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 23:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			11/09/21 15:18	11/09/21 23:36	1
o-Terphenyl	126		70 - 130			11/09/21 15:18	11/09/21 23:36	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260	E	4.99	mg/Kg			11/11/21 21:30	1
lient Sample ID: SS03						Lab San	nple ID: 890-	1541-3
ate Collected: 11/04/21 12:09							Matri	x: Solid
ate Received: 11/05/21 14:57								
Sample Depth: 0.5								
-								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/09/21 08:29	11/09/21 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			11/09/21 08:29	11/09/21 14:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130			11/09/21 08:29	11/09/21 14:24	1
Method: Total BTEX - Total B	FEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/10/21 11:29	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		U	49.8				11/11/21 15:00	

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Client Sample Results

Job ID: 890-1541-1
SDG: 31403236.029 TASK 02.02

Client Sample ID: SS03

Client: WSP USA Inc.

Date Collected: 11/04/21 12:09 Date Received: 11/05/21 14:57

Project/Site: PLU 30 BS 107H

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		11/09/21 15:18	11/09/21 23:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/09/21 15:18	11/09/21 23:58	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/09/21 15:18	11/09/21 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			11/09/21 15:18	11/09/21 23:58	1
o-Terphenyl	123		70 - 130			11/09/21 15:18	11/09/21 23:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Lab Sample ID: 890-1541-3 Matrix: Solid

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: WSP USA Inc.

Project/Site: PLU 30 BS 107H

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
30-8083-A-3-B MS	Matrix Spike	126	106	
80-8083-A-3-C MSD	Matrix Spike Duplicate	122	103	
90-1541-1	SS01	117	95	
390-1541-2	SS02	128	124	
90-1541-3	SS03	99	79	
-CS 880-11794/1-A	Lab Control Sample	113	102	
CSD 880-11794/2-A	Lab Control Sample Dup	116	101	
MB 880-11794/5-A	Method Blank	119	106	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1541-1	SS01	111	120
890-1541-2	SS02	116	126
890-1541-3	SS03	112	123
890-1544-A-1-F MS	Matrix Spike	107	103
890-1544-A-1-G MSD	Matrix Spike Duplicate	107	104
LCS 880-11848/2-A	Lab Control Sample	119	128
LCSD 880-11848/3-A	Lab Control Sample Dup	119	122
MB 880-11848/1-A	Method Blank	121	134 S1+

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 11794

Project/Site: PLU 30 BS 107H Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11794/5-A

Matrix: Solid Analysis Batch: 11793

Client: WSP USA Inc.

Analysis Batch: 11793							Prep Batch	n: 11794
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/09/21 08:29	11/09/21 11:26	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			11/09/21 08:29	11/09/21 11:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/09/21 08:29	11/09/21 11:26	1

Lab Sample ID: LCS 880-11794/1-A Matrix: Solid

Analysis Batch: 11793

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09176		mg/Kg		92	70 - 130	
Toluene	0.100	0.09873		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09888		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2005		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.09827		mg/Kg		98	70 - 130	

	LCS I	LCS	
Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-11794/2-A

Matrix: Solid

	Analysis Batch: 11793							Prep	Batch:	117 9 4
		Spike	LCSD	LCSD				%Rec.		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	0.100	0.09636		mg/Kg		96	70 - 130	5	35
	Toluene	0.100	0.1045		mg/Kg		104	70 - 130	6	35
	Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	11	35
	m-Xylene & p-Xylene	0.200	0.2151		mg/Kg		108	70 - 130	7	35
	o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	11	35
I										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-8083-A-3-B MS Matrix: Solid

Analysis Potoby 11702

Analysis Batch: 11793									Prep	Batch: 11794
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.08330		mg/Kg		83	70 - 130	
Toluene	<0.00201	U	0.0998	0.08994		mg/Kg		88	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Project/Site: PLU 30 BS 107H Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-8083-A-	3-B MS							Client	Sample ID		
Matrix: Solid										Гуре: То	
Analysis Batch: 11793										Batch:	11794
		Sample	Spike		MS				%Rec.		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201	U	0.0998	0.09268		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1837		mg/Kg		90	70 - 130		
p-Xylene	<0.00201	U	0.0998	0.09012		mg/Kg		89	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	126		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								
Lab Sample ID: 880-8083-A-	3-C MSD					CI	ient Sa	ample ID	: Matrix Sp	oike Dur	olicat
Matrix: Solid										Type: To	
Analysis Batch: 11793										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	<0.00201	U	0.0996	0.08526		mg/Kg		85	70 - 130	2	3
Toluene	<0.00201	U	0.0996	0.08894		mg/Kg		88	70 - 130	1	3
Ethylbenzene	<0.00201	U	0.0996	0.09281		mg/Kg		93	70 - 130	0	3
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1748		mg/Kg		86	70 - 130	5	3
o-Xylene	<0.00201	U	0.0996	0.08654		mg/Kg		85	70 - 130	4	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	122		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 _ 130								
lethod: 8015B NM - Dies	sel Range O	rganics (E	DRO) (GC)								
Lab Sample ID: MB 880-118	48/1-4							Client 9	ample ID:	Method	Rian
								onent a		Type: To	
Matrix: Solid											
Matrix: Solid Analysis Batch: 11800										Batch:	

	IN D							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/21 15:18	11/09/21 20:36	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			11/09/21 15:18	11/09/21 20:36	1

Lab Sample ID: LCS 880-11848/2-A Matrix: Solid						Sample		ntrol Sample
Analysis Batch: 11800							Prep I	Batch: 11848
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	986.0		mg/Kg		99	70 _ 130	
(GRO)-C6-C10								

1000

70 - 130

134 S1+

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70 - 130

11/09/21 20:36

11/09/21 15:18

129

o-Terphenyl

C10-C28)

Diesel Range Organics (Over

1288

mg/Kg

1

Project/Site: PLU 30 BS 107H

QC Sample Results

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

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

Lab Sample ID: LCS 880-118	48/2-A						Client	Sample	D: Lab Co		
Matrix: Solid									Prep 1	Type: Tot	tal/N
Analysis Batch: 11800									Prep	Batch:	1184
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	128		70 - 130								
Lab Sample ID: LCSD 880-11	848/3-A					Clier	nt Sam	ple ID: I	Lab Contro		
Matrix: Solid									Prep 1	Type: Tot	tal/N
Analysis Batch: 11800										Batch:	
			Spike		LCSD		_		%Rec.		RF
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics GRO)-C6-C10			1000	992.3		mg/Kg		99	70 - 130	1	2
Diesel Range Organics (Over			1000	1104		mg/Kg		110	70 - 130	15	2
C10-C28)											
	1000	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	- <u></u>	Quanner	70 - 130								
p-Terphenyl	122		70 ₋ 130								
Lab Sample ID: 890-1544-A-1	I-F MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid									Prep 1	Type: Tot	tal/N
Analysis Batch: 11800									Prep	Batch:	1184
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	997	1145		mg/Kg		115	70 - 130		
(GRO)-C6-C10	<49.9		997	1151		malka		115	70 - 130		
	<49.9	U	997	1151		mg/Kg		115	70 - 130		
C10-C28)		MS									
C10-C28)	%Recovery	MS Qualifier	Limits								
C10-C28) Surrogate I-Chlorooctane	% Recovery 107		70 - 130								
C10-C28) Surrogate -Chlorooctane	%Recovery										
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl			70 - 130			Cli	ent Sa	ample IC): Matrix St	oike Dun	licat
C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1544-A-1			70 - 130			Cli	ent Sa	ample ID): Matrix Sp Prep 1		
C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid			70 - 130			Cli	ent Sa	ample IC	Prep 1	Type: Tot	tal/N
C10-C28) Surrogate (-Chlorooctane -Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid	- <u>%Recovery</u> 107 103 1-G MSD		70 - 130	MSD	MSD	Cli	ent Sa	ample ID	Prep 1		tal/N 1184
C10-C28) Surrogate (-Chlorooctane -Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800	- %Recovery 107 103 I-G MSD Sample	Qualifier	70 - 130 70 - 130		MSD Qualifier	Cli Unit	ent Sa	ample ID %Rec	Prep 1 Prep	Type: Tot	tal/N 1184 RP
C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics	- %Recovery 107 103 I-G MSD Sample	Qualifier Sample Qualifier	70 - 130 70 - 130 Spike					-	Prep 1 Prep %Rec.	Type: Tot Batch:	tal/N/ 1184 RP Lim
C10-C28) Surrogate (-ChlorooctaneTerphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics GRO)-C6-C10	%Recovery 107 103 1-G MSD Sample Result <49.9	Qualifier Sample Qualifier U	70 - 130 70 - 130 Spike Added 1000	Result 1198		_ <mark>Unit</mark> mg/Kg		%Rec 120	Prep 7 Prep %Rec. Limits 70 - 130	RPD 5	tal/N 1184 RP Lim
C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 107 103 I-G MSD Sample Result	Qualifier Sample Qualifier U	70 - 130 70 - 130 Spike Added	Result		Unit		%Rec	Prep 1 Prep %Rec. Limits	Type: Tot Batch: RPD	tal/N 1184 RP Lim
C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 107 103 1-G MSD Sample Result <49.9	Qualifier Sample Qualifier U	70 - 130 70 - 130 Spike Added 1000	Result 1198		_ <mark>Unit</mark> mg/Kg		%Rec 120	Prep 7 Prep %Rec. Limits 70 - 130	RPD 5	tal/N 1184 RP Lim
C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	- <u>%Recovery</u> 107 103 I-G MSD Sample <u>Result</u> <49.9	Qualifier Sample Qualifier U	70 - 130 70 - 130 Spike Added 1000	Result 1198		_ <mark>Unit</mark> mg/Kg		%Rec 120	Prep 7 Prep %Rec. Limits 70 - 130	RPD 5	tal/N 1184 RP Lim
C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	- <u>%Recovery</u> 107 103 I-G MSD Sample <u>Result</u> <49.9	Qualifier Sample Qualifier U U	70 - 130 70 - 130 Spike Added 1000 1000	Result 1198		_ <mark>Unit</mark> mg/Kg		%Rec 120	Prep 7 Prep %Rec. Limits 70 - 130	RPD 5	tal/N
Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1544-A-1 Matrix: Solid Analysis Batch: 11800 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	- <u>%Recovery</u> 107 103 I-G MSD Sample <u>Result</u> <49.9 <49.9 MSD	Qualifier Sample Qualifier U U	70 - 130 70 - 130 Spike Added 1000	Result 1198		_ <mark>Unit</mark> mg/Kg		%Rec 120	Prep 7 Prep %Rec. Limits 70 - 130	RPD 5	tal/N 1184 RP Lim 2

Eurofins Xenco, Carlsbad

Project/Site: PLU 30 BS 107H

QC Sample Results

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11675/	'1-A								Client S	ample ID:	Method	Blank
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 12053												
		MB MB										
Analyte	Re	esult Qualifie	r	RL	Unit		D	Pr	repared	Analy	zed	Dil Fac
Chloride	<	5.00 U		5.00	mg/ł	〈 g				11/11/21	19:54	1
Lab Sample ID: LCS 880-11675	5/2-A						Cli	ient	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: Se	oluble
Analysis Batch: 12053												
			Spike	LCS	S LCS					%Rec.		
Analyte			Added	Resul	t Qualifier	Unit		D	%Rec	Limits		
Chloride			250	249.2	2	mg/Kg			100	90 - 110		
Lab Sample ID: LCSD 880-116	75/3-A					CI	ient S	Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid											Type: S	
Analysis Batch: 12053												
			Spike	LCSI	LCSD					%Rec.		RPD
Analyte			Added	Resul	t Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	248.0)	mg/Kg			99	90 _ 110	0	20
Lab Sample ID: 890-1530-A-10	-F MS								Client	Sample ID): Matrix	Spike
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 12053												
	Sample	Sample	Spike	MS	6 MS					%Rec.		
Analyte	Result	Qualifier	Added	Resul	t Qualifier	Unit		D	%Rec	Limits		
Chloride	23.9		248	256.0)	mg/Kg			94	90 - 110		
Lab Sample ID: 890-1530-A-10	-G MSD						Clien	it Sa	mple IC): Matrix S	pike Dur	olicate
Matrix: Solid									•		Type: S	
Analysis Batch: 12053												
-	Sample	Sample	Spike	MSI	MSD					%Rec.		RPD
Analyte	Result	Qualifier	Added	Resul	t Qualifier	Unit		D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

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 890-1541-1

 TASK 02.02

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Analysis Batch: 11793

GC VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1541-1	SS01	Total/NA	Solid	8021B	11794
890-1541-2	SS02	Total/NA	Solid	8021B	11794
890-1541-3	SS03	Total/NA	Solid	8021B	11794
MB 880-11794/5-A	Method Blank	Total/NA	Solid	8021B	11794
LCS 880-11794/1-A	Lab Control Sample	Total/NA	Solid	8021B	11794
LCSD 880-11794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11794
880-8083-A-3-B MS	Matrix Spike	Total/NA	Solid	8021B	11794
880-8083-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11794

Prep Batch: 11794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1541-1	SS01	Total/NA	Solid	5035	
890-1541-2	SS02	Total/NA	Solid	5035	
890-1541-3	SS03	Total/NA	Solid	5035	
MB 880-11794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8083-A-3-B MS	Matrix Spike	Total/NA	Solid	5035	
880-8083-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 11890					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-1541-1	SS01	Total/NA	Solid	Total BTEX	
	890-1541-2	SS02	Total/NA	Solid	Total BTEX	
l	890-1541-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 11800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1541-1	SS01	Total/NA	Solid	8015B NM	11848
890-1541-2	SS02	Total/NA	Solid	8015B NM	11848
890-1541-3	SS03	Total/NA	Solid	8015B NM	11848
MB 880-11848/1-A	Method Blank	Total/NA	Solid	8015B NM	11848
LCS 880-11848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11848
LCSD 880-11848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11848
890-1544-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	11848
890-1544-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11848

Prep Batch: 11848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1541-1	SS01	Total/NA	Solid	8015NM Prep	
890-1541-2	SS02	Total/NA	Solid	8015NM Prep	
890-1541-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-11848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1544-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1544-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Client Sample ID

SS01

SS02

SS03

QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

GC Semi VOA

Lab Sample ID

890-1541-1

890-1541-2

890-1541-3

HPLC/IC

Leach Batch: 11675

Analysis Batch: 12045

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Method

8015 NM

8015 NM

8015 NM

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Prep Batch

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1541-1	SS01	Soluble	Solid	DI Leach	
890-1541-2	SS02	Soluble	Solid	DI Leach	
390-1541-3	SS03	Soluble	Solid	DI Leach	
MB 880-11675/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-11675/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-11675/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-1530-A-10-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1530-A-10-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 12053					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
890-1541-1	SS01	Soluble	Solid	300.0	1167

Prep Type

Total/NA

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

890-1541-1	SS01	Soluble	Solid	300.0	11675	
890-1541-2	SS02	Soluble	Solid	300.0	11675	
890-1541-3	SS03	Soluble	Solid	300.0	11675	
MB 880-11675/1-A	Method Blank	Soluble	Solid	300.0	11675	
LCS 880-11675/2-A	Lab Control Sample	Soluble	Solid	300.0	11675	
LCSD 880-11675/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11675	
890-1530-A-10-F MS	Matrix Spike	Soluble	Solid	300.0	11675	
890-1530-A-10-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11675	

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Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Lab Sample ID: 890-1541-1 Matrix: Solid

Lab Sample ID: 890-1541-2

Lab Sample ID: 890-1541-3

Matrix: Solid

Matrix: Solid

Client Sample ID: SS01 Date Collected: 11/04/21 12:03 Date Received: 11/05/21 14:57

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11794	11/09/21 08:29	MR	XEN MID
Total/NA	Analysis	8021B		1	11793	11/09/21 13:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	11890	11/10/21 11:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11848	11/09/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11800	11/09/21 23:14	AJ	XEN MID
Soluble	Leach	DI Leach			11675	11/08/21 11:42	СН	XEN MID
Soluble	Analysis	300.0		1	12053	11/11/21 21:22	СН	XEN MID

Client Sample ID: SS02

Date Collected: 11/04/21 12:06

Date Received: 11/05/21 14:57

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11794	11/09/21 08:29	MR	XEN MID
Total/NA	Analysis	8021B		1	11793	11/09/21 14:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	11890	11/10/21 11:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11848	11/09/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11800	11/09/21 23:36	AJ	XEN MID
Soluble	Leach	DI Leach			11675	11/08/21 11:42	СН	XEN MID
Soluble	Analysis	300.0		1	12053	11/11/21 21:30	CH	XEN MID

Client Sample ID: SS03 Date Collected: 11/04/21 12:09

Date Received: 11/05/21 14:57

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11794	11/09/21 08:29	MR	XEN MID
Total/NA	Analysis	8021B		1	11793	11/09/21 14:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	11890	11/10/21 11:29	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	12045	11/11/21 15:00	AJ	XEN MID
Total/NA	Prep	8015NM Prep			11848	11/09/21 15:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1	11800	11/09/21 23:58	AJ	XEN MID
Soluble	Leach	DI Leach			11675	11/08/21 11:42	СН	XEN MID
Soluble	Analysis	300.0		1	12053	11/11/21 21:37	СН	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Laboratory: Eurofins Xenco, Midland

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

thority	P	rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o		Matrix	Analyte	
the agency does not o Analysis Method 8015 NM	fer certification. Prep Method	Matrix	Analyte Total TPH	

Eurofins Xenco, Carlsbad

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Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Method	Method Description	Protocol	Laboratory
3021B	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
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

Client: WSP USA Inc.

Project/Site: PLU 30 BS 107H

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

Job ID: 890-1541-1 SDG: 31403236.029 TASK 02.02

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-1541-1	SS01	Solid	11/04/21 12:03	11/05/21 14:57	0.5	4
390-1541-2	SS02	Solid	11/04/21 12:06	11/05/21 14:57	0.5	
390-1541-3	SS03	Solid	11/04/21 12:09	11/05/21 14:57	0.5	5
						8
						9
						12
						13
						4

.





Chain of Custody

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

Work Order No:

11/12/2021

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LA	BCRATOR	163	Hobbs		I,TX (432-704-54 7550) Phoenix,/										620-20	00)		WW	w.xen	co.cor	m	Page	1_0	f
Project Manager:	Ben Belil				Bill to: (if differen		Kyle L											V	Vork	Order	Com	ments		
Company Name:	Received	y OCD:	3/24/2022	7:51:08 A	ompany Nar	me:		Energy							Pro	gram:	UST/P	sт 🗌	PRP [Brow	nfield	s [kc	uperf	und 🗌
Address:	508 W Steve	ns St			Address:		3104	E Gree	en Stre	et					5	tate o	f Proje	ect:					_	
City, State ZIP:	Carlsbad, NM				City, State ZIF	> ;	Carls	bad, N	M 8822	20					Rep	orting:	_evel	De	vel III	□s.	T/UST	RP	vel l	IV 🗌
Phone:	989.854.0852	2		Email:	luis.delval@	wsp.c	om; b	en.bel	il@ws	p.com					Deli	rable	s: ED	D]	ADa	рт 🗆	Ot	ner:	
Project Name:	F	PLU 30 BS	107H	Ти	rn Around			_			AI	VALY	SIS RE	QUI	EST						T	Work	Order N	otes
Project Number:			Task 02.02	Rout								<u> </u>		_	Т	Τ	T			T	Inc	ident #:	nAPP21	2663935
P.O. Number:				Rush						1													AFE:	
Sampler's Name:	Luis Del Val			Due	Date:								1 I I	LINI O BI	יר אווווווווווווווווווו	In and the fil		1			DD	.2017.0	1971.CA	P.CMP.0
SAMPLE REC		emp Blank:	Yes No	Wet Ice:	(Hes) No																			
	1.4	1.2				S																		
Temperature (°C): Received Intact:	Yes	No		hermometer M00		of Containers		E	(î.			890	-1541 C	hain	of CL	stody		1						
Cooler Custody Sea		No (N/A)		ection Factor:	-0.2	Con	15)	=802	A 30			090	1041 0							1	ТА	T starts th	e dav rece	vied by the
Sample Custody Se	als: Yes	NO N/A	Tota	I Containers:			A 80	PAG	EP														ceived by 4	
Sample Ide	ntification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)													Samp	le Comm	nents
SSO	01	s	11/4/2021	1203	0.5'	1	X	X	X															
SSO	02	S	11/4/2021	1206	0.5'	1	X	Х	Х															
SSC	03	s	11/4/2021	1209	0.5'	1	X	X	X					_		<u> </u>	-							
														_	<u> </u>						_			
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Total 200.7 / 6 Circle Method	5010 200.8 / d(s) and Metal(PM Texas 1 P 6010: 8R0													K Se	Ag s				U V Zr 7470 / 74	
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service. Xenco will be	e liable only for the o			a charge of \$5 f	or each sample su												negena.	ed.						
service. Xenco will be	e liable only for the o harge of \$75.00 will I		ach project and	a charge of \$5 f				Time		Re	elinqui	shed I	by: (Sig			T			by:	Signat	ture)	T	Date/	
Notice: Signature of this of service. Xenco will be of Xenco. A minimum ch Relinquished by	e liable only for the o harge of \$75.00 will I	be applied to e	Received t		re)				23	Re 2	1	shed I	by: (Sig	Inati	ire)	C			by (Signat	ture)		Date/	Time

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Eurofins Xenco, Carlsbad 1089 N Canal St

Chain of Custody Record



Eurotins Xenco, Carisbad 1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199	(Chain o	of Custody	/ Re	co	rd												•	🎘 eurofi	ns	Environment America	t Testing	11/12/2021
	Sampler			Lab PM								Ca	arrier	Trackin	g No(s	;)			COC No.			1	11
Client Information (Sub Contract Lab)	Phone			Kramer E-Mail	Jes	ssica							tate of	Origin					890-498 1 Page				~
Shipping/Receiving				jessica	kran	ner@)euro	ofinse	t con	n				lexico					Page 1 of 1				
Company Received by OCD. 5/24/2022 Eurofins Xenco	.51.00 /1/1							uired (S ana			Гехаз								Job # [.] 890-1541-1				
Address	Due Date Request	ed												1					Preservation	Code	es		
1211 W Florida Ave City	11/11/2021 TAT Requested (d	avs):		_	()		<u> </u>	1	An	aly	sis R	equ	este	ea T		1	T	10002	A HCL B NaOH		M Hexane N None		
Midland					10000									CARGON PARTIES		-		1	C Zn Acetate		O AsNaO2		
State Zip [.] TX 79701				abrada, Killi	station	ΗdΤ												an	D Nitric Acid E NaHSO4		P Na2O4S Q Na2SO3		
Phone: 432-704-5440(Tel)	PO #:					(MOD) Full TPH													F MeOH G Amchlor		R Na2S2O3 S H2SO4		
Email	WO #					QOW		oride										- the set	H Ascorbic A	cid	T TSP Dodec U Acetone	cahydrate	
Project Name:	Project #:			s or	No)	S_Prep (1	ЧС Н	(MOD) BTEX									20	J DI Water K EDTA		V MCAA W pH 4-5		
PLU 30 BS 107H	89000004			ž e	es ol	ຶ		EACI	Î									containers	L EDA		Z other (speci	ify)	
Site:	SSOW# [.]			Idua	D (Y	16NM		Į Į	alc (N														
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) Sample (W=wast S=so O=wast BT=Tissue	ter Id, e/oil,	Pertorm MS/MSD (Yes or No)	8016MOD_NM/8016NM_	8016MOD_Calc	300_ORGFM_28D/DI_LEACH Chioride	8021B/6036FP_Calc	Total_BTEX_GCV								Total Number of	Spec	ial In	structions/N	lote:	2
		> <	Preservation Co	de: X	\propto				in south of									X		A Constantion		Alexandra and a second	of 22
SS01 (890-1541-1)	11/4/21	12 03 Mountain	Sol	id		x	x	x	x	x								1	the definition of the second				0 0
SS02 (890-1541-2)	11/4/21	12 06 Mountain	Sol	id		X	x	x	x	х								1					le Z
SS03 (890-1541-3)	11/4/21	12 09 Mountain	Sol	ıd		x	x	x	x	х								1					Page 20 of
																		Barrin .					
					Τ													1.4.0					
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Note: Since laboratory accreditations are subject to change Eurofins Xenco maintain accreditation in the State of Origin listed above for analysis/tests/m attention immediately If all requested accreditations are current to date retr	atrix being analyzed the s	samples must b	e shipped back to the E	urofins Xe	enco L	LLC la	borat																
Possible Hazard Identification					Sa	mple	e Dis	sposa	al (A	fee	may I	be as	sess	ed if	sam	ples a	are r	etair	ned longer ti	han 1	month)		1
Unconfirmed														al By	Lab			Arc	hive For		Months		
Deliverable Requested I II III IV Other (specify)	Primary Deliver	rable Rank	2		Sp	pecial	Inst	ructio	ons/Q	CR	equire	ement	s										
Empty Kit Relinquished by	Area	Date		Т	ïme			Λ	1				P	Method	of Shi	pment:							1
Relinquished by Clean April S.Z.	Date/Time		Compar			10	eived	\swarrow	R	lls	Q	N	Ú	R		ate/Tim	12	7.	H		Company]
Relinquished by	Date/Time		Compar	Ŋ		Red	eived	by.	1						Da	ate/Tim	ie.		1110		Company		
Relinquished by	Date/Time		Compa	ıу		Rec	eived	by.							Di	ate/Tim	ne				Company]
Custody Seals Intact [·] Custody Seal No Δ Yes Δ No						Coo	ler Te	empera	ature(s)°Ca	nd Oth	er Ren	narks	2	I.	7	T	t.	3]
						_									1	~					Ver 06/08/2	2021	

Job Number: 890-1541-1

SDG Number: 31403236.029 TASK 02.02

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1541 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	N/A	

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

14

The cooler's custody seal, if present, is intact.

The cooler or samples do not appear to have been compromised or

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Sample custody seals, if present, are intact.

Samples were received on ice.

Cooler Temperature is acceptable.

COC is filled out in ink and legible.

Sample containers have legible labels.

Containers are not broken or leaking.

Sample bottles are completely filled.

Sample Preservation Verified.

Sample collection date/times are provided.

Appropriate sample containers are used.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

Cooler Temperature is recorded.

Login Sample Receipt Checklist

Answer

True

Comment

Client: WSP USA Inc.

Login Number: 1541

Creator: Lowe, Katie

List Number: 2

tampered with.

COC is present.

HTs)

MS/MSDs

<6mm (1/4").

Question

Job Number: 890-1541-1 SDG Number: 31403236.029 TASK 02.02

SDG Nullibel: 51405250.029 TASK 02.02

List Source: Eurofins Xenco, Midland List Creation: 11/09/21 11:14 AM

Eurofins Xenco, Carlsbad
Released to Imaging: 7/25/2022 9:40:55 AM

Received by OCD: 3/24/2022 7:51:08 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1668-1

Laboratory Sample Delivery Group: 31403236.029 tASK 02.02 Client Project/Site: PLU 30 BS 107H Revision: 1

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 12/15/2021 4:03:29 PM

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

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

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

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

www.eurofinsus.com/Env Released to Imaging: 7/25/2022 9:40:55 AM

Visit us at:

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Laboratory Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

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.

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Qualifiers		3	3
GC VOA			
Qualifier	Qualifier Description	4	
F1	MS and/or MSD recovery exceeds control limits.		
F2	MS/MSD RPD exceeds control limits	5	5
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC		8	8
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary		1	
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	1	
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		5
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		

TEQ Toxicity Equivalent Quotient (Dioxin) TNTC Too Numerous To Count

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

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

Reporting Limit or Requested Limit (Radiochemistry)

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

ND

NEG POS

PQL

QC

RER RL

RPD

TEF

PRES

Eurofins Xenco, Carlsbad

Page 62 of 120

Job ID: 890-1668-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1668-1

REVISION

The report being provided is a revision of the original report sent on 12/8/2021. The report (revision 1) is being revised due to Per client email requesting re run on chloride for sample #5.

Report revision history

Receipt

The samples were received on 12/2/2021 1:24 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 5.8°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

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

HPLC/IC

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

Client Sample ID: SS06 Date Collected: 12/01/21 13:10 Date Received: 12/02/21 13:24

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:41	
Toluene	<0.00200		0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:41	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/03/21 07:56	12/03/21 18:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:41	
Xylenes, Total	<0.00399		0.00399	mg/Kg			12/03/21 18:41	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130			12/03/21 07:56	12/03/21 18:41	
1,4-Difluorobenzene (Surr)	105		70 - 130			12/03/21 07:56	12/03/21 18:41	
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/07/21 16:34	
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			12/07/21 16:19	
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 13:53	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 13:53	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 13:53	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	73		70 - 130			12/03/21 15:30	12/04/21 13:53	
o-Terphenyl	84		70 - 130			12/03/21 15:30	12/04/21 13:53	
Method: 300.0 - Anions, Ion C	hromatogra	iphy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	145		5.00	mg/Kg			12/08/21 05:49	
lient Sample ID: SS07						Lab Samp	le ID: 890-1	668-
ate Collected: 12/01/21 13:15							Matrix	c: Soli
ate Received: 12/02/21 13:24								
ample Depth: 0.5								
Method: 8021B - Volatile Orga	anic Compo	unds (GC)						
Analyta	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte						10/00/01 07 50		
•	<0.00202	U	0.00202	mg/Kg		12/03/21 07:56	12/03/21 19:01	
Benzene	<0.00202 <0.00202		0.00202 0.00202	mg/Kg mg/Kg			12/03/21 19:01 12/03/21 19:01	
Benzene Toluene		U					12/03/21 19:01	
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00202	U U	0.00202	mg/Kg		12/03/21 07:56 12/03/21 07:56	12/03/21 19:01	

1

1

1

Dil Fac

Page	64	of	1	20

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Lab Sample ID: 890-1668-1

Matrix: Solid

5

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o-Xylene

Surrogate

Xylenes, Total

4-Bromofluorobenzene (Surr)

0.00202

0.00404

Limits

70 - 130

mg/Kg

mg/Kg

<0.00202 U

<0.00404 U

%Recovery Qualifier

129

12/03/21 07:56 12/03/21 19:01

12/03/21 07:56 12/03/21 19:01

12/03/21 07:56 12/03/21 19:01

Analyzed

Eurofins Xenco, Carlsbad

Prepared

Client Sample Results

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Prepared

Prepared

12/03/21 15:30

12/03/21 15:30

D

D

D

Client Sample ID: SS07 Date Collected: 12/01/21 13:15 Date Received: 12/02/21 13:24

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

Method: Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

<49.9 U

105

<0.00404 U

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Sample Depth: 0.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Limits

70 - 130

0.00404

RL

RL

RL

49.9

49.9

49.9

49.9

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

SDG: 31403	3236.029 tASI	₹ 02.02	
Lab Samp	le ID: 890-1 Matrix	668-2 : Solid	
			5
Prepared	Analyzed	Dil Fac	
12/03/21 07:56	12/03/21 19:01	1	
Prepared	Analyzed	Dil Fac	

Dil Fac

Dil Fac

1

1

Fac 1

Analyzed	Dil Fac	
12/04/21 14:13	1	13
12/04/21 14:13	1	12

Matrix: Solid

Surrogate	%Recovery Qu	alifier Limits			Prepared	Analyzed	Dil
1-Chlorooctane	80	70 - 130			12/03/21 15:30	12/04/21 14:13	
o-Terphenyl	93	70 - 130			12/03/21 15:30	12/04/21 14:13	
Method: 300.0 - Anions, Io	••••	•					
Analyte	Result Qu	alifier RL	Unit	D	Prepared	Analyzed	Dil I
Chloride	241	4.96	mg/Kg			12/08/21 06:01	

Client Sample ID: SS08 Date Collected: 12/01/21 13:20

Date Received: 12/02/21 13:24 Sample Depth: 0.5

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/03/21 07:56	12/03/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			12/03/21 07:56	12/03/21 19:22	1
1,4-Difluorobenzene (Surr)	121		70 - 130			12/03/21 07:56	12/03/21 19:22	1
_ Method: Total BTEX - Total	BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/07/21 16:34	1
_ Method: 8015 NM - Diesel F	Range Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/07/21 16:19	1

Eurofins Xenco, Carlsbad

12/07/21 16:34

Analyzed

12/07/21 16:19

Analyzed

Lab Sample ID: 890-1668-3

12/03/21 15:30 12/04/21 14:13

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Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Lab Sample ID: 890-1668-4

Matrix: Solid

Client Sample ID: SS08 Date Collected: 12/01/21 13:20

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Date Received: 12/02/21 13:24 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		12/03/21 15:30	12/04/21 14:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/03/21 15:30	12/04/21 14:34	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 15:30	12/04/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130			12/03/21 15:30	12/04/21 14:34	1
o-Terphenyl	88		70 - 130			12/03/21 15:30	12/04/21 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** RL Unit D Prepared Analyzed Chloride 5.04 12/08/21 06:37 313 mg/Kg

Client Sample ID: SS04 Date Collected: 12/01/21 13:45

Date Received: 12/02/21 13:24 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/03/21 07:56	12/03/21 19:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/03/21 07:56	12/03/21 19:42	1
Method: Total BTEX - Total B	FEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/07/21 16:34	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/07/21 16:19	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 14:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 14:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 15:30	12/04/21 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			12/03/21 15:30	12/04/21 14:54	1

Eurofins Xenco, Carlsbad

		Client	Sample Re	esults						
Client: WSP USA Inc. Project/Site: PLU 30 BS 107H			-			SDG: 31403	Job ID: 890- 3236.029 tASI			
Client Sample ID: SS04Lab Sample ID: 890-1668Date Collected: 12/01/21 13:45Matrix: SolDate Received: 12/02/21 13:24Matrix: SolSample Depth: 0.5										
Method: 300.0 - Anions, Ion C Analyte		<mark>iphy - Solu</mark> Qualifier	ıble RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	152		4.98	mg/Kg			12/08/21 06:48	1		
Client Sample ID: SS05 Date Collected: 12/01/21 13:50 Date Received: 12/02/21 13:24 Sample Depth: 0.5										
Method: 8021B - Volatile Orga	anic Compo	unds (GC)								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00201		0.00201	mg/Kg		12/03/21 07:56	12/03/21 20:02	1		
Toluene	< 0.00201	U	0.00201	mg/Kg		12/03/21 07:56	12/03/21 20:02	1		
Ethylbenzene	< 0.00201		0.00201	mg/Kg			12/03/21 20:02	1		
m-Xylene & p-Xylene	< 0.00402		0.00402	mg/Kg			12/03/21 20:02	1		
o-Xylene	< 0.00201		0.00201	mg/Kg			12/03/21 20:02	1		
Xylenes, Total	<0.00402		0.00402	mg/Kg			12/03/21 20:02	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	123		70 - 130			12/03/21 07:56	12/03/21 20:02	1		
1,4-Difluorobenzene (Surr)	103		70 - 130			12/03/21 07:56	12/03/21 20:02	1		
Method: Total BTEX - Total B	TEX Calcula	tion								
Method: Total BTEX - Total B Analyte		<mark>tion</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
		Qualifier	RL	Unit mg/Kg	D	Prepared	Analyzed 12/07/21 16:34	Dil Fac		
Analyte Total BTEX	Result <0.00402	Qualifier U	0.00402		D	Prepared				
Analyte	Result <0.00402	Qualifier U	0.00402		D 	Prepared				
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U cs (DRO) (C Qualifier	0.00402	mg/Kg			12/07/21 16:34	1		
Analyte Total BTEX Method: 8015 NM - Diesel Rat Analyte Total TPH	Result <0.00402	Qualifier U es (DRO) (C Qualifier U	0.00402 GC) RL 49.8	mg/Kg Unit			12/07/21 16:34 Analyzed	1 Dil Fac		
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00402 nge Organic Result <49.8 ange Organ	Qualifier U (U Qualifier U ics (DRO)	0.00402 GC) RL 49.8 (GC)	mg/Kg	D	Prepared	Analyzed 12/07/21 16:34	1 Dil Fac 1		
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00402 nge Organic Result <49.8 ange Organ	Qualifier U (Qualifier U (Qualifier U (Qualifier) Qualifier	0.00402 GC) RL 49.8	mg/Kg Unit			12/07/21 16:34 Analyzed	1 Dil Fac		
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <0.00402 nge Organic Result <49.8 ange Organ Result	Qualifier U (Qualifier U (C (Qualifier U (Qualifier U (Qualifier U (Qualifier U	0.00402 GC) RL 49.8 (GC) RL	Unit mg/Kg mg/Kg Unit	D	Prepared Prepared 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed Analyzed	1 Dil Fac 1 Dil Fac		
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	Result <0.00402 nge Organic Result <49.8 ange Organ Result <49.8	Qualifier U (Quali	0.00402 GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit Unit mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15	Dil Fac 1 Dil Fac 1		
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <0.00402 nge Organic Result <49.8 ange Organ Result <49.8 <49.8	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier U U U	0.00402 C) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit Unit mg/Kg mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15 12/04/21 15:15	1 Dil Fac 1 Dil Fac 1 1		
Analyte Total BTEX Method: 8015 NM - Diesel Rat 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 <0.00402	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier U U U	0.00402 RL 49.8 (GC) RL 49.8 49.8 49.8 49.8	Unit mg/Kg Unit Unit mg/Kg mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15	1 Dil Fac 1 Dil Fac 1 1		
Analyte Total BTEX Method: 8015 NM - Diesel Rat 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 <0.00402	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier U U U	0.00402 C) RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits	Unit mg/Kg Unit Unit mg/Kg mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15	1 Dil Fac 1 Dil Fac 1 1 1 Dil Fac		
Analyte Total BTEX Method: 8015 NM - Diesel Rat 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 Method: 300.0 - Anions, Ion C	Result <0.00402	Qualifier U es (DRO) (C Qualifier U ics (DRO) Qualifier U U Qualifier	0.00402 RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130 70 - 130	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared 12/03/21 15:30 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15	1 Dil Fac 1 Dil Fac 1 1 1 Dil Fac 1 1		
Analyte Total BTEX Method: 8015 NM - Diesel Rat 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 <0.00402	Qualifier U (Qualifier U (Qualifier U (Qualifier U (Qualifier U (Qualifier	0.00402 RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg Unit Unit mg/Kg mg/Kg	D	Prepared Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared 12/03/21 15:30	Analyzed 12/07/21 16:34 Analyzed 12/07/21 16:19 Analyzed 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15 12/04/21 15:15	1 Dil Fac 1 Dil Fac 1 1 1 Dil Fac 1		

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Surrogate Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

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

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Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Prep Type: Total/NA

Prep Type: Total/NA

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

			Perce	ent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-8912-A-1-A MS	Matrix Spike	105	103	
880-8912-A-1-B MSD	Matrix Spike Duplicate	115	105	
890-1668-1	SS06	122	105	
890-1668-2	SS07	129	105	
890-1668-3	SS08	137 S1+	121	
890-1668-4	SS04	125	105	
890-1668-5	SS05	123	103	
LCS 880-13829/1-A	Lab Control Sample	104	99	
LCSD 880-13829/2-A	Lab Control Sample Dup	98	98	
MB 880-13829/5-A	Method Blank	124	101	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

			Percen	t Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
42-A-1-B MS	Matrix Spike	78	80	
42-A-1-C MSD	Matrix Spike Duplicate	78	81	
68-1	SS06	73	84	
68-2	SS07	80	93	
68-3	SS08	75	88	
68-4	SS04	79	91	
68-5	SS05	72	83	
0-13892/2-A	Lab Control Sample	81	82	
880-13892/3-A	Lab Control Sample Dup	83	89	
30-13892/1-A	Method Blank	83	101	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13829/5-A
Matrix: Solid
Analysis Batch: 13831

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/03/21 07:56	12/03/21 11:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/03/21 07:56	12/03/21 11:13	1

Lab Sample ID: LCS 880-13829/1-A Matrix: Solid Analysis Batch: 13831

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08650		mg/Kg		87	70 - 130	
Toluene	0.100	0.08234		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08190		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08317		mg/Kg		83	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-13829/2-A Matrix: Solid

Analysis Batch: 13831

Analysis Batch: 13831						Prep Batch: 13829			
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08271		mg/Kg		83	70 - 130	4	35
Toluene	0.100	0.07847		mg/Kg		78	70 - 130	5	35
Ethylbenzene	0.100	0.07601		mg/Kg		76	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1567		mg/Kg		78	70 - 130	9	35
o-Xylene	0.100	0.07844		mg/Kg		78	70 - 130	6	35

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

Lab Sample ID: 880-8912-A-1-A MS Matrix: Solid

Matrix: Solid Analysis Batch: 13831										pe: Total/NA Batch: 13829
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.0996	0.08390		mg/Kg		84	70 - 130	
Toluene	<0.00200	U F1 F2	0.0996	0.07940		mg/Kg		80	70 - 130	

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Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Released to Imaging: 7/25/2022 9:40:55 AM

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

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

Lab Sample ID: 880-8912 Matrix: Solid Analysis Batch: 13831	-A-1-A MS						C	lient Sa	mple ID: I Prep Ty Prep E		al/NA
Analyte	•	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene	<0.00200	U F1 F2	0.0996	0.07656		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00401	U F1 F2	0.199	0.1588		mg/Kg		80	70 - 130		
o-Xylene	<0.00200	U F1 F2	0.0996	0.07759		mg/Kg		78	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								
Matrix: Solid Analysis Batch: 13831									Prep Ty	-	
		<u> </u>	.						FIEDL	satch: '	13829
	Sample	Sample	Spike	MSD	MSD				%Rec.	satch:	13829 RPD
Analyte	•	Sample Qualifier	Spike Added	-	MSD Qualifier	Unit	D	%Rec		RPD	
•	•	Qualifier	•	-	Qualifier	Unit mg/Kg	D	%Rec 3	%Rec.		RPD
Benzene	Result	Qualifier U F1 F2	Added	Result	Qualifier F1 F2		<u>D</u>		%Rec. Limits	RPD	RPD Limit
Benzene Toluene		Qualifier U F1 F2 U F1 F2	Added	Result 0.002484	Qualifier F1 F2 F1 F2	mg/Kg	<u>D</u>	3	%Rec. Limits 70 - 130	RPD 188	RPD Limit 35
Benzene Toluene Ethylbenzene		Qualifier U F1 F2 U F1 F2 U F1 F2 U F1 F2	Added 0.0992 0.0992	Result 0.002484 0.002211	Qualifier F1 F2 F1 F2 U F1 F2	mg/Kg mg/Kg	<u>D</u>	3	%Rec. Limits 70 - 130 70 - 130	RPD 188 189	RPD Limit 35 35
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.00200 <0.00200 <0.00200	Qualifier U F1 F2 U F1 F2 U F1 F2 U F1 F2 U F1 F2	Added 0.0992 0.0992 0.0992	Result 0.002484 0.002211 <0.00198	Qualifier F1 F2 F1 F2 U F1 F2 U F1 F2	mg/Kg mg/Kg mg/Kg	<u>D</u>	3 2 1	%Rec. Limits 70 - 130 70 - 130 70 - 130	RPD 188 189 195	RPD Limit 35 35 35
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result <0.00200 <0.00200 <0.00200 <0.00401	Qualifier U F1 F2 U F1 F2 U F1 F2 U F1 F2 U F1 F2 U F1 F2	Added 0.0992 0.0992 0.0992 0.198	Result 0.002484 0.002211 <0.00198 <0.00397	Qualifier F1 F2 F1 F2 U F1 F2 U F1 F2	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	3 2 1 1	%Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 188 189 195 193	RPD Limit 35 35 35 35
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.00200	Qualifier U F1 F2 WF1 F2	Added 0.0992 0.0992 0.0992 0.198	Result 0.002484 0.002211 <0.00198 <0.00397	Qualifier F1 F2 F1 F2 U F1 F2 U F1 F2	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	3 2 1 1	%Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 188 189 195 193	RPD Limit 35 35 35 35
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result <0.00200	Qualifier U F1 F2 WF1 F2	Added 0.0992 0.0992 0.0992 0.198 0.0992	Result 0.002484 0.002211 <0.00198 <0.00397	Qualifier F1 F2 F1 F2 U F1 F2 U F1 F2	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	3 2 1 1	%Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 188 189 195 193	RPD Limit 35 35 35 35

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

Lab Sample ID: MB 880-13892/1-A Matrix: Solid Analysis Batch: 13912

Analysis Batch: 13912							Prep Batch	: 13892
-	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 11:22	1
	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	83	70 - 130
o-Terphenyl	101	70 - 130

Lab Sample ID: LCS 880-13892/2-A Matrix: Solid Analysis Batch: 13912

Analysis Batch: 13912						Prep E	atch: 13892	
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1002		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	785.2		mg/Kg		79	70 - 130	
C10-C28)								

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Client Sample ID: Method Blank

Prep Type: Total/NA

1

1

12/03/21 15:30 12/04/21 11:22

12/03/21 15:30 12/04/21 11:22

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

5

7

Lab Sample ID: LCS 880-13892/2-A

Lab Sample ID: LCSD 880-13892/3-A

QC Sample Results

Limits

70 - 130

70 - 130

Spike

Added

1000

1000

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Analysis Batch: 13912

Analysis Batch: 13912

Gasoline Range Organics

Diesel Range Organics (Over

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

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

LCS LCS %Recovery Qualifier

81

82

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 13892

RPD

6

9

Prep Batch: 13892

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

94

72

%Rec.

Limits

70 - 130

70 - 130

7

RPD Limit	9
20	
20	

trix Spike

Prep T	ype: To	otal/NA
Prep	Batch:	13892

,				
	LCSD	LCSD		
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane	83		70 - 130	
o-Terphenyl	89		70 - 130	
	2-A-1-B MS			Client Sample ID: Matr
Matrix: Solid				Prep Type:
Analysis Batch: 13912				Prep Batc
-	0	0	Omilia	0/ D = =

LCSD LCSD

944.2

719.4

Result Qualifier

Unit

mg/Kg

mg/Kg

D %Rec

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	876.5		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	822.0		mg/Kg		80	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	80		70 - 130

... ...

Lab Sample ID: 880-8942-A-1-C MSD Matrix: Solid Analysis Batch: 13912

Analysis Batch: 13912									Prep Batch:		138 <mark>92</mark>	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	906.4		mg/Kg		91	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	851.8		mg/Kg		83	70 - 130	4	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	81		70 - 130

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

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Project/Site: PLU 30 BS 107H

QC Sample Results

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14039/1 Matrix: Solid Analysis Batch: 14239	-A							Cli	ent San	ple ID: M Prep T	lethod I ype: Sc	
·····	N	IB MB										
Analyte	Res	ult Qualifier		RL		Unit		DI	Prepared	Analy	zed	Dil Fac
Chloride	<5.	00 U		5.00		mg/k	٢g		-	12/08/21	02:38	1
Lab Sample ID: LCS 880-14039/ Matrix: Solid Analysis Batch: 14239	2-A						Cli	ent Sa	mple ID	: Lab Coi Prep T	ntrol Sa ype: Sc	
Analysis Baten. 14200			Spike		LCS	LCS				%Rec.		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		236.9		mg/Kg		95	90 - 110		
Lab Sample ID: LCSD 880-14039 Matrix: Solid Analysis Batch: 14239	9/3-A					(Client S	ample	ID: Lat	Control Prep T	Sample ype: Sc	
			Spike		LCSD	LCSD				%Rec.		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		235.8		mg/Kg		94	90 - 110	0	20
Lab Sample ID: 890-1668-2 MS Matrix: Solid									С	lient Sam Prep T	ple ID: ype: Sc	
Analysis Batch: 14239	ample S	Samnle	Spike		MS	MS				%Rec.		
	Result C	-	Added			Qualifier	Unit	D	%Rec	Limits		
Chloride	241		248		473.5		mg/Kg		94	90 - 110		
Lab Sample ID: 890-1668-2 MSD Matrix: Solid Analysis Batch: 14239									С	lient Sam Prep T	ple ID: ype: Sc	
-	ample S	Sample	Spike		MSD	MSD				%Rec.		RPD
	Result C	-	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	241		248		472.3		mg/Kg		93	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

4 5 6

GC VOA

Prep Batch: 13829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1668-1	SS06	Total/NA	Solid	5035	
890-1668-2	SS07	Total/NA	Solid	5035	
890-1668-3	SS08	Total/NA	Solid	5035	
890-1668-4	SS04	Total/NA	Solid	5035	
890-1668-5	SS05	Total/NA	Solid	5035	
MB 880-13829/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13829/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-8912-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-8912-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 13831

LC3 000-13029/1-A	Lab Control Sample	IUlai/INA	Solid	3033		
LCSD 880-13829/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		8
880-8912-A-1-A MS	Matrix Spike	Total/NA	Solid	5035		
880-8912-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		9
Analysis Batch: 1383	31					10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1668-1	SS06	Total/NA	Solid	8021B	13829	44
890-1668-2	SS07	Total/NA	Solid	8021B	13829	
890-1668-3	SS08	Total/NA	Solid	8021B	13829	10
890-1668-4	SS04	Total/NA	Solid	8021B	13829	
890-1668-5	SS05	Total/NA	Solid	8021B	13829	40
MB 880-13829/5-A	Method Blank	Total/NA	Solid	8021B	13829	13
LCS 880-13829/1-A	Lab Control Sample	Total/NA	Solid	8021B	13829	
LCSD 880-13829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13829	14
880-8912-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	13829	
880-8912-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13829	

Analysis Batch: 14228

Lab Sample ID 890-1668-1	Client Sample ID	Prep Type Total/NA	Matrix	Method Total BTEX	Prep Batch
890-1668-2	SS07	Total/NA	Solid	Total BTEX	
890-1668-3	SS08	Total/NA	Solid	Total BTEX	
890-1668-4	SS04	Total/NA	Solid	Total BTEX	
890-1668-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 13892

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1668-1	SS06	Total/NA	Solid	8015NM Prep	
890-1668-2	SS07	Total/NA	Solid	8015NM Prep	
890-1668-3	SS08	Total/NA	Solid	8015NM Prep	
890-1668-4	SS04	Total/NA	Solid	8015NM Prep	
890-1668-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-13892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8942-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8942-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13912

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1668-1	SS06	Total/NA	Solid	8015B NM	13892
890-1668-2	SS07	Total/NA	Solid	8015B NM	13892

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

GC Semi VOA (Continued)

Analysis Batch: 13912 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1668-3	SS08	Total/NA	Solid	8015B NM	13892
890-1668-4	SS04	Total/NA	Solid	8015B NM	13892
890-1668-5	SS05	Total/NA	Solid	8015B NM	13892
MB 880-13892/1-A	Method Blank	Total/NA	Solid	8015B NM	13892
LCS 880-13892/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13892
LCSD 880-13892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13892
880-8942-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	13892
880-8942-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13892

Analysis Batch: 14112

Lab Sample ID 890-1668-1	Client Sample ID SS06	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-1668-2	SS07	Total/NA	Solid	8015 NM	
890-1668-3	SS08	Total/NA	Solid	8015 NM	
890-1668-4	SS04	Total/NA	Solid	8015 NM	
890-1668-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 14039

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1668-1	SS06	Soluble	Solid	DI Leach	
890-1668-2	SS07	Soluble	Solid	DI Leach	
890-1668-3	SS08	Soluble	Solid	DI Leach	
890-1668-4	SS04	Soluble	Solid	DI Leach	
890-1668-5	SS05	Soluble	Solid	DI Leach	
MB 880-14039/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14039/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14039/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1668-2 MS	SS07	Soluble	Solid	DI Leach	
890-1668-2 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 14239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1668-1	SS06	Soluble	Solid	300.0	14039
890-1668-2	SS07	Soluble	Solid	300.0	14039
890-1668-3	SS08	Soluble	Solid	300.0	14039
890-1668-4	SS04	Soluble	Solid	300.0	14039
MB 880-14039/1-A	Method Blank	Soluble	Solid	300.0	14039
LCS 880-14039/2-A	Lab Control Sample	Soluble	Solid	300.0	14039
LCSD 880-14039/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14039
890-1668-2 MS	SS07	Soluble	Solid	300.0	14039
890-1668-2 MSD	SS07	Soluble	Solid	300.0	14039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1668-5	SS05	Soluble	Solid	300.0	14039

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Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

1 2 3

5

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Lab Sample ID: 890-1668-1 Matrix: Solid

Lab Sample ID: 890-1668-2

Lab Sample ID: 890-1668-3

Lab Sample ID: 890-1668-4

Matrix: Solid

Matrix: Solid

Client Sample ID: SS06 Date Collected: 12/01/21 13:10 Date Received: 12/02/21 13:24

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 18:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 05:49	СН	XEN MID

Client Sample ID: SS07 Date Collected: 12/01/21 13:15 Date Descined: 12/02/21 13:24

Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 19:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 06:01	CH	XEN MID

Client Sample ID: SS08 Date Collected: 12/01/21 13:20 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 06:37	СН	XEN MID

Client Sample ID: SS04 Date Collected: 12/01/21 13:45 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID

Eurofins Xenco, Carlsbad

5

9

Matrix: Solid

9

Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Lab Sample ID: 890-1668-4 Matrix: Solid

Date Collected: 12/01/21 13:45 Date Received: 12/02/21 13:24

Project/Site: PLU 30 BS 107H

Client Sample ID: SS04

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 06:48	СН	XEN MID

Client Sample ID: SS05 Date Collected: 12/01/21 13:50 Date Received: 12/02/21 13:24

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 20:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14858	12/15/21 14:26	СН	XEN MID

Laboratory References:

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

890-1668-1

Matrix: Solid

Eurofins Xenco, Carlsbad

Released to Imaging: 7/25/2022 9:40:55 AM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Laboratory: Eurofins Xenco, Midland

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

uthority		ogram	Identification Number	Expiration Date 06-30-22		
exas	s NELAP		T104704400-21-22			
The following analytes	are included in this repo	rt but the laboratory is r	not certified by the governing authority.	This list may include analytes for which		
the agency does not o		it, but the laberatory let				
		Matrix	Analyte			
the agency does not o	ffer certification.	•				

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Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

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Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
lotal 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
3015NM Prep	Microextraction	SW846	XEN MID
OI 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

Sample Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1668-1 SDG: 31403236.029 tASK 02.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1668-1	SS06	Solid	12/01/21 13:10	12/02/21 13:24	0.5	4
890-1668-2	SS07	Solid	12/01/21 13:15	12/02/21 13:24	0.5	
890-1668-3	SS08	Solid	12/01/21 13:20	12/02/21 13:24	0.5	5
890-1668-4	SS04	Solid	12/01/21 13:45	12/02/21 13:24	0.5	
890-1668-5	SS05	Solid	12/01/21 13:50	12/02/21 13:24	0.5	
						8
						9
						12
						13



Chain of Custody

Work Order No: _____

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

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

				Hobbs,	NM (575-392-	7550) Phoenix,A				tianta, G	GA (770	-449-88	300) Ta	mpa,FI	_ (813-	620-20	00)				co.cor	_	Page	of
Project Manager:		min Beli				Bill to: (if differe	,	Kyle	Littrell	_	_								_				ments	_
Company Name:	WEec	kiped by	VOCD:	3/24/2022	7:51:08 A	Company Na	me:	хто	Energ	у					_	-				PRP	Brov	wnfield		Superfund
Address:	3300	North A	Street			Address:		3104	E Gre	en Str	eet				_			Proje					_	
City, State ZIP:	Midla	nd, TX 7	9705			City, State ZI	P:	Carls	bad, N	IM 882	20				_	Reporting:Level IILevel IIIPS Deliverables: EDD ADaF								
Phone:	432.2	36.3849			Emai	: Alexis.Castr	0@w	sp.cor	n <u>; Be</u>	n.Belil	@ws	p.com								PT 🗆				
Project Name:		P	LU 30 BS	107H	Т	urn Around						AI	NALYS		EQUE	ST				88			Work	Order Notes
Project Number:		3140323	6.029	Task # 02.02	2 Rou	tine A Sur																Inc	ident #:	nAPP2126639
P.O. Number:					Rus	h: 3-Day	-															AFE	: 00.201	7 01471. CAP. LM
Sampler's Name:	Alexis	s Castro			Due	Date:							1 11	19349-1937	Inder inder	HH		Alan Ian						
SAMPLE RECE		Te	mp Blank:	Tes No	Wet Ice	Yes No	5		{															
Temperature (°C):		6.0	15,5	Т	hermometer	r ID	ainers		{										11					
Received Intact:		Yes	No		M-OC		ntai		021)	300.0)			89	0-166	8 Cha	in of C	ustody	/		_				
Cooler Custody Seal		Yes N		Corre	ection Factor	-0.2	f Con	015)	0=8((EPA 3												TA	T starts the	e day recevied by
Sample Custody Sea	als:	Yes N	Io (N/A	Tota	al Containers	:	er of	A 8	PA	e (E		1							1					eived by 4:30pm
Sample Iden		ion	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride													Sampl	e Comments
SSO)6		s	12/01/2021	1310	0.5'	1	x	x	x	1													
SSO)7		s	12/01/2021	1315	0.5'	1	x	x	x	1-									1				
SSO			s	12/01/2021	1320	0.5'	1	x	x	x														
SSO)4		s	12/01/2021	1345	0.5'	1	x	x	x														
SSO			S	12/01/2021	1350	0.5'	1	x	x	x														
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Total 200.7 / 6	5010	200.8 /	6020:	8R	CRA 13P	PM Texas 11	Al	Sb A	s Ba	Be B	Cd	Ca Cr	· Co C	Cu Fe	Pb	Mg N	/In Mo	o Ni	K Se	Ag	SiO2	Na S	r TI Sn	U V Zn
Circle Method	l(s) an	d Metal(s	s) to be a	nalyzed	TCLP / SP	PLP 6010: 8R	CRA	Sb /	As Ba	Be	Cd C	r Co	Cu Pb	Mn	Мо	Ni Se	Ag	TIU			16	631 / 2	245.1 / 7	470 / 7471 : H
Notice: Signature of this	docume	ent and relin	quishment	of samples const	titutes a valid p	urchase order from	n client	compa	ny to X	enco, its	affiliate	es and s	ubcontra	actors.	lt assig	ns stan	dard te	rms and	d condi	tions	-			
of service. Xenco will be of Xenco. A minimum ch	e liable o harge of	only for the \$75.00 will	cost of samp be applied to	oles and shall no beach project an	t assume any r id a charge of s	esponsibility for a 5 for each sample	ny loss submit	es or ex ted to)	penses (enco, l	Incurre out not a	d by the analyzed	client if I. These	f such los terms wi	sses are ili be en	e due t forced	o circun unless	istance: previou	s beyon sly neg	d the co otiated.	ontrol				
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Job Number: 890-1668-1

SDG Number: 31403236.029 tASK 02.02

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1668 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1668 List Number: 2 Creator: Kramer, Jessica Job Number: 890-1668-1 SDG Number: 31403236.029 tASK 02.02

List Source: Eurofins Xenco, Midland List Creation: 12/03/21 12:45 PM

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

Received by OCD: 3/24/2022 7:51:08 AM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1670-1

Laboratory SDG: 31403236.029 TASK #02.02 Client Project/Site: PLU 30 BS 107H

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 12/8/2021 11:47:50 AM Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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The

Expert

Released to Imaging: 7/25/2022 9:40:55 AM

Laboratory Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

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Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Qualifiers

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

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GC VOA		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+ U	Surrogate recovery exceeds control limits, high biased.	
0	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	7
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		6
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		1
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	4.
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND NEG	Not Detected at the reporting limit (or MDL or EDL if shown) 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)	
THITO		

TNTC Too Numerous To Count

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Job ID: 890-1670-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1670-1

Receipt

The samples were received on 12/2/2021 1:24 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 5.8°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 880-13829 and analytical batch 880-13831 were outside control limits. Mis-injection during prep is suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) and the matrix spike (MS) precision was within acceptance limits; therefore data was accepted.

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

GC Semi VOA

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

HPLC/IC

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

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Lab Sample ID: 890-1670-1

Matrix: Solid

Client Sample ID: PH01 Date Collected: 12/01/21 09:40 Date Received: 12/02/21 13:24 Sample Depth: 1

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		12/03/21 07:56	12/03/21 14:15	
Toluene	<0.00201	U	0.00201	mg/Kg		12/03/21 07:56	12/03/21 14:15	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/03/21 07:56	12/03/21 14:15	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/03/21 07:56	12/03/21 14:15	
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/03/21 07:56	12/03/21 14:15	
Xylenes, Total	<0.00402		0.00402	mg/Kg		12/03/21 07:56	12/03/21 14:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	120		70 - 130			12/03/21 07:56	12/03/21 14:15	
1,4-Difluorobenzene (Surr)	106		70 - 130			12/03/21 07:56	12/03/21 14:15	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/07/21 16:34	
Method: 8015 NM - Diesel Range	Organics (DR	D) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0		50.0	mg/Kg			12/06/21 15:44	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		12/03/21 15:30	12/04/21 15:35	
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 15:35	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 15:35	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	83		70 - 130			12/03/21 15:30	12/04/21 15:35	
p-Terphenyl	96		70 - 130			12/03/21 15:30	12/04/21 15:35	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	456		5.01	mg/Kg			12/08/21 07:36	
lient Sample ID: PH01A						Lab San	nple ID: 890-	1670-
ate Collected: 12/01/21 09:41								ix: Soli
ate Received: 12/02/21 13:24								
ample Depth: 2								
Method: 8021B - Volatile Organic	: Compounds (GC)						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	quanner	=				7.1141 y 204	
	Result <0.00200		0.00200	mg/Kg		12/03/21 07:56	12/03/21 14:35	
Analyte Benzene Foluene		U						

4-Bromofluorobenzene (Surr)	121		70 - 130		12/03/21 07:56	12/03/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	12/03/21 07:56	12/03/21 14:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	12/03/21 07:56	12/03/21 14:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	12/03/21 07:56	12/03/21 14:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	12/03/21 07:56	12/03/21 14:35	1
Toluene	<0.00200	0	0.00200	mg/kg	12/03/21 07.50	12/03/21 14.35	1

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12/8/2021
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Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Method: Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

70

81

95

<0.00399 U

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

Client Sample Results

Limits

70 - 130

RL

RL

RL

50.0

50.0

50.0

Limits

70 - 130

70 - 130

50.0

0.00399

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Client Sample ID: PH01A Date Collected: 12/01/21 09:41

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client: WSP USA Inc.

Date Received: 12/01/21 09.41

Project/Site: PLU 30 BS 107H

Sample Depth: 2

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Lab Sample	ID:	890-1670-2
		Matrix: Solid

Analyzed

12/03/21 14:35

Analyzed

12/07/21 16:34

Analyzed

12/06/21 15:44

Analyzed

12/04/21 15:56

Lab Sample ID: 890-1670-5

Matrix: Solid

4 5 6

mg/Kg	12/03/21 15:30	12/04/21 15:56	1	
	12/03/21 15:30	12/04/21 15:56	1	1
mg/Kg	12/03/21 13:30	12/04/21 15.50	I	
	Prepared	Analyzed	Dil Fac	
	12/03/21 15:30	12/04/21 15:56	1	
	12/03/21 15:30	12/04/21 15:56	1	

Prepared

12/03/21 07:56

Prepared

Prepared

Prepared

12/03/21 15:30

D

D

D

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		4.97	mg/Kg			12/08/21 07:48	1

Client Sample ID: PH02

Date Collected: 12/01/21 10:20 Date Received: 12/02/21 13:24 Sample Depth: 1

Method: 8021B - Volatile Organic Com	ipounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/03/21 07:56	12/03/21 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			12/03/21 07:56	12/03/21 17:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130			12/03/21 07:56	12/03/21 17:19	1
– Method: Total BTEX - Total BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/07/21 16:34	1
– Method: 8015 NM - Diesel Range Orga	nics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/21 15:44	1

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

79

91

131

Result Qualifier

Client Sample Results

RL

49.9

49.9

49.9

RL

5.00

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

Job ID: 890-1670-1
SDG: 31403236.029 TASK #02.02

Analyzed

12/04/21 16:16

12/04/21 16:16

12/04/21 16:16

Analyzed

12/04/21 16:16

12/04/21 16:16

Analyzed

12/08/21 08:00

Lab Sample ID: 890-1670-6

Client Sample ID: PH02

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Sample Depth: 1

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Date Collected: 12/01/21 10:20 Date Received: 12/02/21 13:24

D

D

Prepared

12/03/21 15:30

12/03/21 15:30

12/03/21 15:30

Prepared

12/03/21 15:30

12/03/21 15:30

Prepared

5
8
9

Client Sample ID: PH02A

Date Collected: 12/01/21 10:25 Date Received: 12/02/21 13:24

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/03/21 07:56	12/03/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/03/21 07:56	12/03/21 17:39	1
1,4-Difluorobenzene (Surr)	114		70 - 130			12/03/21 07:56	12/03/21 17:39	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/07/21 16:34	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/06/21 15:44	1
Method: 8015B NM - Diesel Rang	e 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		12/03/21 15:30	12/04/21 16:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 16:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			12/03/21 15:30	12/04/21 16:57	1
o-Terphenyl	79		70 - 130			12/03/21 15:30	12/04/21 16:57	1

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Lab Sample ID: 890-1670-5 Matrix: Solid

Dil Fac

1

1

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

		Clien	t Sample Re	sults				
Client: WSP USA Inc.						000.0440	Job ID: 890	
Project/Site: PLU 30 BS 107H						SDG: 3140	3236.029 TASK	#02.02
Client Sample ID: PH02A						Lab San	nple ID: 890-	1670-0
Date Collected: 12/01/21 10:25							Matri	x: Soli
Date Received: 12/02/21 13:24								
Sample Depth: 2								
- Method: 300.0 - Anions, Ion Chr	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	9.17		5.00	mg/Kg			12/08/21 08:12	
Client Sample ID: PH03						Lab San	nple ID: 890-	1670-
Date Collected: 12/01/21 12:03							-	x: Soli
Date Received: 12/02/21 13:24								
Sample Depth: 1								
Method: 8021B - Volatile Organi	ic Compounds /							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200			12/03/21 07:56	12/03/21 18:00	
Toluene	<0.00200		0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:00	
Ethylbenzene	<0.00200		0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:00	
m-Xylene & p-Xylene	< 0.00399		0.00399	mg/Kg		12/03/21 07:56	12/03/21 18:00	
o-Xylene	<0.00200		0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:00	
Xylenes, Total	<0.00399		0.00399	mg/Kg		12/03/21 07:56	12/03/21 18:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		Quanner	70 - 130			12/03/21 07:56	12/03/21 18:00	
1,4-Difluorobenzene (Surr)	104		70 - 130			12/03/21 07:56	12/03/21 18:00	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/07/21 16:34	
- Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			12/07/21 16:19	
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 17:17	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0		50.0	mg/Kg		12/03/21 15:30	12/04/21 17:17	
C10-C28)	~50.0	5	50.0	ilig/itg		12/00/21 10:00	12107121 11.11	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 15:30	12/04/21 17:17	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	77		70 - 130			12/03/21 15:30	12/04/21 17:17	
o-Terphenyl	90		70 - 130			12/03/21 15:30	12/04/21 17:17	
_ Method: 300.0 - Anions, Ion Chi	romatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Dramarad	Analyzad	Dil Fa
				Unit	U	Prepared	Analyzed	

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Released to Imaging: 7/25/2022 9:40:55 AM

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Lab Sample ID: 890-1670-10

Matrix: Solid

5

Client Sample ID: PH03A Date Collected: 12/01/21 12:05 Date Received: 12/02/21 13:24 Sample Depth: 2

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/03/21 07:56	12/03/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			12/03/21 07:56	12/03/21 18:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130			12/03/21 07:56	12/03/21 18:20	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/07/21 16:34	1
	Result		RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			12/07/21 16:19	Dil Fac 1
Method: 8015B NM - Diesel Rang		RO) (GC)	49.9	mg/Kg			12/07/21 16:19	1
Method: 8015B NM - Diesel Rang Analyte	<49.9 ge Organics (DI Result	RO) (GC) Qualifier	49.9 RL	mg/Kg Unit	D	Prepared	12/07/21 16:19 Analyzed	Dil Fac 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics		RO) (GC) Qualifier	49.9	mg/Kg			12/07/21 16:19	1
	<49.9 ge Organics (DI Result	RO) (GC) Qualifier U	49.9 RL	mg/Kg Unit		Prepared	12/07/21 16:19 Analyzed	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (Di Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9	mg/Kg mg/Kg		Prepared 12/03/21 15:30	Analyzed 12/07/21 16:19	1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (Di Result <49.9 <49.9 <49.9	RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/21 15:30 12/03/21 15:30	Analyzed 12/07/21 16:19 Analyzed 12/04/21 17:37 12/04/21 17:37	1 Dil Fac 1
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	<49.9 ge Organics (Di Result <49.9 <49.9 <49.9	RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30	Analyzed 12/07/21 16:19 Analyzed 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37	1 Dil Fac 1 1
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	<49.9 ge Organics (Di Result <49.9 <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared	Analyzed 12/07/21 16:19 Analyzed 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 Analyzed	1 Dil Fac 1 1 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)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 <49.9 <80 %Recovery 80 94	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared 12/03/21 15:30	Analyzed 12/07/21 16:19 Analyzed 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37	1 Dil Fac 1 1 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) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 <49.9 <80 94 comatography -	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/03/21 15:30 12/03/21 15:30 12/03/21 15:30 Prepared 12/03/21 15:30	Analyzed 12/07/21 16:19 Analyzed 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37 12/04/21 17:37	1 Dil Fac 1 1 1 Dil Fac

12/8/2021

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Client: WSP USA Inc.

Project/Site: PLU 30 BS 107H

-				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		÷
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-8912-A-1-A MS	Matrix Spike	105	103		
880-8912-A-1-B MSD	Matrix Spike Duplicate	115	105		
890-1670-1	PH01	120	106		
890-1670-2	PH01A	121	95		
390-1670-5	PH02	119	110		
890-1670-6	PH02A	125	114		
890-1670-9	PH03	111	104		
890-1670-10	PH03A	133 S1+	107		
LCS 880-13829/1-A	Lab Control Sample	104	99		
LCSD 880-13829/2-A	Lab Control Sample Dup	98	98		
MB 880-13829/5-A	Method Blank	124	101		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-8942-A-1-B MS	Matrix Spike	78	80
880-8942-A-1-C MSD	Matrix Spike Duplicate	78	81
890-1670-1	PH01	83	96
890-1670-2	PH01A	70	81
890-1670-5	PH02	79	91
890-1670-6	PH02A	71	79
890-1670-9	PH03	77	90
890-1670-10	PH03A	80	94
LCS 880-13892/2-A	Lab Control Sample	81	82
LCSD 880-13892/3-A	Lab Control Sample Dup	83	89
MB 880-13892/1-A	Method Blank	83	101
Surrogate Legend			

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample	ID: MB	880-13829/5-A

Matrix: Solid Analysis Batch: 13831

-	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/03/21 07:56	12/03/21 11:13	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			12/03/21 07:56	12/03/21 11:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130			12/03/21 07:56	12/03/21 11:13	1

Lab Sample ID: LCS 880-13829/1-A Matrix: Solid

Analysis Batch: 13831

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08650		mg/Kg		87	70 - 130	
Toluene	0.100	0.08234		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08190		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08317		mg/Kg		83	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-13829/2-A

Matrix: Solid

	Analysis Batch: 13831							Prep	Batch:	13829
		Spike	LCSD	LCSD				%Rec.		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	0.100	0.08271		mg/Kg		83	70 - 130	4	35
	Toluene	0.100	0.07847		mg/Kg		78	70 - 130	5	35
	Ethylbenzene	0.100	0.07601		mg/Kg		76	70 - 130	7	35
	m-Xylene & p-Xylene	0.200	0.1567		mg/Kg		78	70 - 130	9	35
	o-Xylene	0.100	0.07844		mg/Kg		78	70 - 130	6	35
I										

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

Lab Sample ID: 880-8912-A-1-A MS

Matrix: Solid

Analysis Batch: 13831									Prep Batch: 13829
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.0996	0.08390		mg/Kg		84	70 - 130
Toluene	<0.00200	U	0.0996	0.07940		mg/Kg		80	70 - 130

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

13

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 13829

Client: WSP USA Inc.

Project/Site: PLU 30 BS 107H

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

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

Lab Sample ID: 880-8912-A-1-A Matrix: Solid	AMS									Client S	Sample ID: Prep Ty	pe: To	tal/NA
Analysis Batch: 13831											Prep E	Batch:	1382
	Sample	Sam	ple	Spike	MS	MS					%Rec.		
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00200	U		0.0996	0.07656		mg/Kg		_	77	70 - 130		
m-Xylene & p-Xylene	<0.00401	U		0.199	0.1588		mg/Kg			80	70 - 130		
p-Xylene	<0.00200	U		0.0996	0.07759		mg/Kg			78	70 - 130		
	MS	мs											
Surrogate	%Recovery		lifier	Limits									
4-Bromofluorobenzene (Surr)	105			70 - 130									
1,4-Difluorobenzene (Surr)	103			70 - 130									
Lab Sample ID: 880-8912-A-1-E								Clio	nt Sa	ample ID:	Matrix Spi		olicat
Matrix: Solid								one		impic ib.	Prep Ty		
												-	
Analysis Batch: 13831	Comula	C		Califo	MOD	MCD					Prep E	satch:	
	Sample			Spike		MSD			-	~ =	%Rec.		RP
Analyte	Result		litier	Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Benzene	<0.00200			0.0992	0.002484		mg/Kg			3	70 - 130	188	3
Toluene	<0.00200	U		0.0992	0.002211	F1 F2	mg/Kg			2	70 - 130	189	3
Ethylbenzene	<0.00200	U		0.0992	<0.00198	U F1 F2	mg/Kg			1	70 ₋ 130	195	3
m-Xylene & p-Xylene	<0.00401	U		0.198	< 0.00397	U F1 F2	mg/Kg			1	70 _ 130	193	3
o-Xylene	<0.00200	U		0.0992	<0.00198	U F1 F2	mg/Kg			2	70 - 130	192	3
	MSD	MSD)										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	115			70 - 130									
1,4-Difluorobenzene (Surr)	105			70 - 130									
lethod: 8015B NM - Diese	I Range Oi	rgar	nics (DR	O) (GC)									
Lab Sample ID: MB 880-13892/	'1-A									Client Sa	mple ID: M	ethod	Blan
Matrix: Solid											· Prep Ty		
Analysis Batch: 13912											Prep E	-	
		мв	МВ										
Analyte	R	esult		R	<u>L</u>	Unit		D	P	repared	Analyze	ł	Dil Fa
Gasoline Range Organics		\$50.0		50.0		mg/K	(g	_	12/0	3/21 15:30	12/04/21 11		
(GRO)-C6-C10 Diesel Range Organics (Over	<	\$50.0	U	50.0	0	mg/K	ģ		12/0	3/21 15:30	12/04/21 11	:22	
C10-C28) Oll Range Organics (Over C28-C36)	<	\$0.0	U	50.0	D	mg/K	g		12/0	3/21 15:30	12/04/21 11	:22	
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits					P	repared	Analyze	d	Dil Fa
1-Chlorooctane		83		70 - 130	_				12/0	3/21 15:30	12/04/21 11	:22	
p-Terphenyl		101		70 - 130					12/0	3/21 15:30	12/04/21 11	:22	
Lab Sample ID: LCS 880-13892	2/2-A							С	lient	Sample	ID: Lab Cor	ntrol S	ampl
Matrix: Solid											Prep Ty		
Analysis Batch: 13912											Prep E	-	
				Spike	LCS	LCS					%Rec.		
Analyte				Added		Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	1002		mg/Kg		-	100	70 - 130		
Jasonne Manye Organius				1000	1002		mg/rty			100	10 - 150		

70 - 130

79

(GRO)-C6-C10

C10-C28)

Diesel Range Organics (Over

785.2

mg/Kg

QC Sample Results

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

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

<49.9 U

<49.9 U

78

81

%Recovery

MSD MSD

Qualifier

Lab Sample ID: LCS 880-138	92/2-A						Client	Sample	ID: Lab Co	ontrol S	ample	
Matrix: Solid									Prep 1	Type: To	tal/NA	
Analysis Batch: 13912									Prep	Batch:	13892	
	LCS	LCS										5
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	81		70 - 130									
o-Terphenyl	82		70 - 130									
											_	7
Lab Sample ID: LCSD 880-13	3892/3-A					Clie	nt San	iple ID:	Lab Contro			
Matrix: Solid										Type: To		8
Analysis Batch: 13912			• •							Batch:		
			Spike		LCSD		_	~ =	%Rec.		RPD	9
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	944.2		mg/Kg		94	70 - 130	6	20	
Diesel Range Organics (Over			1000	719.4		mg/Kg		72	70 - 130	9	20	
C10-C28)												
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	83		70 - 130									
o-Terphenyl	89		70 - 130									13
	I-B MS							Client	Sample ID	: Matrix	Spike	
Matrix: Solid										Type: To		
Analysis Batch: 13912										Batch:		
-	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	<49.9	U	997	876.5		mg/Kg		88	70 - 130			
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	997	822.0		mg/Kg		80	70 - 130			
C10-C28)		0	557	022.0		ilig/itg		00	70 - 100			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	78		70 - 130									
o-Terphenyl	80		70 - 130									
 Lab Sample ID: 880-8942-A-′						C	lient S	amnla IF): Matrix Sp	nike Duu	olicate	
Matrix: Solid						Ŭ	ion o			Гуре: То		
Analysis Batch: 13912										Batch:		
	Sample	Sample	Spike	MSD	MSD				%Rec.	Saton.	RPD	
	pio											

Job ID: 890-1670-1

SDG: 31403236.029 TASK #02.02

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91

83

70 - 130

70 - 130

3

4

20

20

999

999

Limits

70 - 130

70 - 130

906.4

851.8

mg/Kg

mg/Kg

Client: WSP USA Inc.

Project/Site: PLU 30 BS 107H

QC Sample Results

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14039/1-A Matrix: Solid Analysis Batch: 14239										Client S	ample ID: Prep	Method Type: S	
Analysis Datch. 14200	мв	мв											
Analyte		Qualifier		RL		Un	it	D	P	repared	Analy	zed	Dil Fac
Chloride	<5.00			5.00		mg	/Kg			•	12/08/21		1
Lab Sample ID: LCS 880-14039/2-A Matrix: Solid								Cli	ent	Sample	e ID: Lab C Prep	ontrol S Type: S	
Analysis Batch: 14239			Spike		LCS	LCS					%Rec.		
Analyte			Added			Qualifie	· Unit		D	%Rec	Limits		
Chloride			250		236.9		mg/Kg		-	95	90 - 110		
							0 0						
Lab Sample ID: LCSD 880-14039/3-A							Cli	ent S	Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 14239													
			Spike		LCSD	LCSD					%Rec.		RPD
Analyte			Added			Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250		235.8		mg/Kg			94	90 _ 110	0	20
										Olivert	0		Onillia
Lab Sample ID: 890-1668-A-2-G MS Matrix: Solid										Client	Sample ID	Type: S	
Analysis Batch: 14239											Fieh	Type. 3	oluble
Sample	Sam	nle	Spike		MS	MS					%Rec.		
	t Qual		Added			Qualifie	· Unit		D	%Rec	Limits		
Chloride 241			248		473.5	duamo	mg/Kg		_	94	90 - 110		
Lab Sample ID: 890-1668-A-2-H MSD							(Clien	t Sa	imple IC): Matrix S	pike Dup	olicate
Matrix: Solid										-		Type: S	
Analysis Batch: 14239													
Sample	Sam	ple	Spike		MSD	MSD					%Rec.		RPD
Analyte Result	Qua	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride 241			248		472.3		mg/Kg		_	93	90 _ 110	0	20

Client Sample ID

PH01

PH01A

PH02

PH02A

PH03

PH03A

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Matrix Spike Duplicate

QC Association Summary

Prep Type

Total/NA

Matrix

Solid

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

GC VOA

890-1670-1

890-1670-2

890-1670-5

890-1670-6

890-1670-9

890-1670-10

MB 880-13829/5-A

LCS 880-13829/1-A

880-8912-A-1-A MS

LCSD 880-13829/2-A

880-8912-A-1-B MSD

Analysis Batch: 13831

Prep Batch: 13829 Lab Sample ID

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Method

5035

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8021B

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Prep Batch

Prep Batch

13829

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9 10 11			
		9	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	1
890-1670-1	PH01	Total/NA	Solid	8021B	
890-1670-2	PH01A	Total/NA	Solid	8021B	
890-1670-5	PH02	Total/NA	Solid	8021B	
890-1670-6	PH02A	Total/NA	Solid	8021B	
890-1670-9	PH03	Total/NA	Solid	8021B	
890-1670-10	PH03A	Total/NA	Solid	8021B	
MB 880-13829/5-A	Method Blank	Total/NA	Solid	8021B	
LCS 880-13829/1-A	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-13829/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	
880-8912-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	

Analysis Batch: 14228

880-8912-A-1-B MSD

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1670-1	PH01	Total/NA	Solid	Total BTEX	
890-1670-2	PH01A	Total/NA	Solid	Total BTEX	
890-1670-5	PH02	Total/NA	Solid	Total BTEX	
890-1670-6	PH02A	Total/NA	Solid	Total BTEX	
890-1670-9	PH03	Total/NA	Solid	Total BTEX	
890-1670-10	PH03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 13892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1670-1	PH01	Total/NA	Solid	8015NM Prep	
890-1670-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1670-5	PH02	Total/NA	Solid	8015NM Prep	
890-1670-6	PH02A	Total/NA	Solid	8015NM Prep	
890-1670-9	PH03	Total/NA	Solid	8015NM Prep	
890-1670-10	PH03A	Total/NA	Solid	8015NM Prep	
MB 880-13892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-8942-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-8942-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Client Sample ID

PH01

PH01A

PH02

PH02A

PH03

PH03A

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

QC Association Summary

Prep Type

Total/NA

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

GC Semi VOA

Lab Sample ID

890-1670-1

890-1670-2

890-1670-5

890-1670-6

890-1670-9

890-1670-10

Analysis Batch: 13912

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Method

8015B NM

Matrix

Solid

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Prep Batch

13892

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880-8942-A-1-B MS 880-8942-A-1-C MSD

Analysis Batch: 14112

MB 880-13892/1-A

LCS 880-13892/2-A

LCSD 880-13892/3-A

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-1670-1 PH01 8015 NM Total/NA Solid 8015 NM 890-1670-2 PH01A Total/NA Solid 890-1670-5 PH02 Total/NA Solid 8015 NM 890-1670-6 PH02A Total/NA Solid 8015 NM 890-1670-9 Total/NA PH03 Solid 8015 NM 890-1670-10 PH03A Total/NA 8015 NM Solid

HPLC/IC

Leach Batch: 14039

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1670-1	PH01	Soluble	Solid	DI Leach	
890-1670-2	PH01A	Soluble	Solid	DI Leach	
890-1670-5	PH02	Soluble	Solid	DI Leach	
890-1670-6	PH02A	Soluble	Solid	DI Leach	
890-1670-9	PH03	Soluble	Solid	DI Leach	
890-1670-10	PH03A	Soluble	Solid	DI Leach	
MB 880-14039/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14039/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14039/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1668-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1668-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1670-1	PH01	Soluble	Solid	300.0	14039
890-1670-2	PH01A	Soluble	Solid	300.0	14039
890-1670-5	PH02	Soluble	Solid	300.0	14039
890-1670-6	PH02A	Soluble	Solid	300.0	14039
890-1670-9	PH03	Soluble	Solid	300.0	14039
890-1670-10	PH03A	Soluble	Solid	300.0	14039
MB 880-14039/1-A	Method Blank	Soluble	Solid	300.0	14039
LCS 880-14039/2-A	Lab Control Sample	Soluble	Solid	300.0	14039
LCSD 880-14039/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14039
890-1668-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	14039
890-1668-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14039

Eurofins Xenco, Carlsbad

Released to Imaging: 7/25/2022 9:40:55 AM

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Lab Sample ID: 890-1670-1 Matrix: Solid

Date Collected: 12/01/21 09:40 Date Received: 12/02/21 13:24

Client Sample ID: PH01

Project/Site: PLU 30 BS 107H

Client: WSP USA Inc.

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 14:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 15:35	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 07:36	СН	XEN MID

Client Sample ID: PH01A Date Collected: 12/01/21 09:41

Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 14:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 15:56	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 07:48	СН	XEN MID

Client Sample ID: PH02

Date Collected: 12/01/21 10:20 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 17:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 16:16	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID

Client Sample ID: PH02A Date Collected: 12/01/21 10:25 Date Received: 12/02/21 13:24

Analysis

300.0

Soluble

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 17:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1670-2 Matrix: Solid

c: Solid

1

14239 12/08/21 08:00 CH

Matrix: Solid

MID MID

Lab Sample ID: 890-1670-6

XEN MID

Lab Sample ID: 890-1670-5

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H

Client Sample ID: PH02A

Date Collected: 12/01/21 10:25 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 08:12	СН	XEN MID

Client Sample ID: PH03

Date Collected: 12/01/21 12:03 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 18:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 08:24	СН	XEN MID

Client Sample ID: PH03A

Date Collected: 12/01/21 12:05 Date Received: 12/02/21 13:24

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13829	12/03/21 07:56	KL	XEN MID
Total/NA	Analysis	8021B		1	13831	12/03/21 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14228	12/07/21 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14112	12/07/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			13892	12/03/21 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1	13912	12/04/21 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			14039	12/06/21 11:57	CA	XEN MID
Soluble	Analysis	300.0		1	14239	12/08/21 08:36	CH	XEN MID

Laboratory References:

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

Lab Sample ID: 890-1670-6 Matrix: Solid

Lab Sample ID: 890-1670-9

Lab Sample ID: 890-1670-10

Matrix: Solid

Matrix: Solid

Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Laboratory: Eurofins Xenco, Midland

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

thority xas		rogram	Identification Number	Expiration Date
		ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report h	it the laboratory is not certif	ied by the governing authority. This list ma	w include analytes for y
the agency does not of	fer certification.			ay include analytes for v
the agency does not of Analysis Method	• •	Matrix	Analyte	
the agency does not of	fer certification.			

10

Page 101 of 120

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Nethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
fotal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: PLU 30 BS 107H Job ID: 890-1670-1 SDG: 31403236.029 TASK #02.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1670-1	PH01	Solid	12/01/21 09:40	12/02/21 13:24	1	
890-1670-2	PH01A	Solid	12/01/21 09:41	12/02/21 13:24	2	
890-1670-5	PH02	Solid	12/01/21 10:20	12/02/21 13:24	1	5
890-1670-6	PH02A	Solid	12/01/21 10:25	12/02/21 13:24	2	J
890-1670-9	PH03	Solid	12/01/21 12:03	12/02/21 13:24	1	
890-1670-10	PH03A	Solid	12/01/21 12:05	12/02/21 13:24	2	
						8
						9
						12
						13



Chain of Custody

Work Order No: _____

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

r				Hobbs	NM (575-392-	7550) Phoenix,	AZ (48	0-355-0	900) A	tlanta,G	GA (770-	449-88	00) Tam	a,FL (81	13-6	520-2000)		W	ww.xe	nco.co	m	Page	of	-
	Project Manager:	Benjamin I	elill Bill to: (if different)						Kyle Littrell							Work Order Comments								
	Company Name:	WERCHISE	15 OCD	: 3/24/2022	7:51:08 A	Company Na	me:	хто	XTO Energy					Program: UST/PST PRP Brownfields RC Superfund							d 🗌			
	Address:	3300 North	A Street			Address:		3104	3104 E Green Street						State of Project:									
_	City, State ZIP:	Midland, T	× 79705			City, State ZI	P:	Carls	Carlsbad, NM 88220 Reporting:Le							Reporting:Level IILevel IIIPST/USTTRRPLevel I					P Level IV			
	Phone:	432.236.38	49		Email	Alexis.Cast	ro@w	sp.co	m; Be	n.Belil	l@wsp	.com			Deliverables: EDD ADaPT Other:							ner:		
[Project Name:		PLU 30 I	BS 107H	Т	urn Around						AN	ALYSIS		UE	ST						Work	Order Notes	3
	Project Number:	3140	3236.029	Task # 02.0	2 Rout	tine 1	F.																nAPP212663	
	P.O. Number:				Rust	n: 3 Par						I	1	I			I	I	I		AF	e: DD. 20	17. 01971.LAP. 0	MP.0
l	Sampler's Name:	Alexis Cas	ro		Due	Date:								11. PA 1										
ſ	SAMPLE RECE		Temp Blar	k: Yes No	Wet Ice	Yes No	s			1				jil ji d		11111111111								
	emperature (°C):	Le.(5.8	1	hermometer	ID	Containers			6						LA MAL DI UN								
Ļ	Received Intact:	(es) Nor	T-TU	JM-DE	7	nta	10	0=8021)	30.			890 167	0 Chair	1 of	Custody								
- H	Cooler Custody Seal				ection Factor		of Co	8015	8=0 \	(EPA		- 1	1	1		1	1	1			TA		e day recevied b	
	Sample Custody Sea	als: Yes	NO NI	Tota	I Containers	:	ero	A	(EPA	de (E												lab, if ree	ceived by 4:30pr	n
	Sample Iden	tification	Matri	x Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX	Chloride												Sampl	e Comments	\$
	PH0	1	S	12/01/2021	0940	1'	1	x	x	x														
	PH01	1A	S	12/01/2021	0941	2'	1	x	x	x														
ļ	PH01	IB	S	12/01/2021	0943	3'	1	×	×	×				_	_			\perp					HOLD	
ŀ	PH01	IC	S	12/01/2021	0945	4	1	x	×_	×				_	_						_		HOLD	
ŀ	PH0:	2	S	12/01/2021	1020	1'	1	x	×	x														
ŀ	PH02	2A	S	12/01/2021	1025	2'	1	×	x	x				_ _	_			+			\downarrow			
ŀ	PH02		S	12/01/2021	1030	3'	1	×	×	x				_	_						_		HOLD	
ŀ	PH02		S	12/01/2021	1035	4'	1	×	x	x					_		+	+		_	+		HOLD	
ŀ	PH03		S	12/01/2021	1203	1'	1	×	×	×					-			+						
L	PH03	3A	S	12/01/2021	1205	2'	1	×	X	x														
ſ	Total 200.7 / 60		8 / 6020:			PM Texas 11												κs	e Ag					
Į	Circle Method	(s) and Met	al(s) to be	analyzed	TCLP / SP	LP 6010: 8R	CRA	Sb /	As Ba	Be (Cd Cr	Co (u Pb I	Mn Mo) N	li Se Ag	TIU			1	631/	245.1 / 7	470 / 7471 :	Hg
	otice: Signature of this of service. Xenco will be																							
	f Xenco. A minimum cha																							
Γ	Relinquished by	: (Signature)	Received	by: (Signatu	ire)		Date	/Time		Ret	inquis	hed by:	(Signa	atur	e)	-		d by: (Signa	ture)		Date/Time	_
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Chain of Custody

Work Order No: _____

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

Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

				Hobbs,	NM (575-392-7	550) Phoenix,A	Z (480	-355-0	900) A	lanta, C	GA (770	449-88	800) Ta	mpa,FL (813-	620-20)))		www	xenco	o.com	Page _	of		
	Project Manager:	Benjamin Belil	I			Bill to: (if differe	ent)	Kyle Littrell								Work Order Comments									
	Company Name:	VRACei8ed by	• OCD:	3/24/2022	7:51:08 AN	Company Na	me:	XTO Energy						-	Program: UST/PST PRP Brownfields RC Superfund										
	Address:	3300 North A	Street			Address:		3104 E Green Street							State of Project:										
_	City, State ZIP:	Midland, TX 79	9705			City, State ZI	P:	Carls	bad, N	M 882	220				-		_								
	Phone:	432.236.3849			Email:	Alexis.Castr	o@w	o@wsp.com; Ben.Belill@wsp.com							Delive	erables	ED			ADaP	T Other	:			
	Project Name:	PI	LU 30 BS	5 107H	Tu	Irn Around		ANALYSIS RE							QUE	ST						Work Order Notes			
	Project Number:	3140323	6.029	Task # 02.02	2 Rout	ine 12-ba																Incident #: nA	PP2126639352		
	P.O. Number:				Rush	: 3. Pur			1										1			AFE: DO. 2017,0	1441, LAP. CMP. 01		
	Sampler's Name:	Alexis Castro			Due	Date:]																		
	SAMPLE RECE		mp Blank:	No No	Wet Ice:	(Yes) No		1								}									
	Temperature (°C):	6.0	15.5		hermometer		ainers																		
	Received Intact:	(Yes)	No	-75			ntai		- Fr	300.0)									<u>├</u> ──						
	Cooler Custody Seal	s: Yes N	lo N/A	Corre	ection Factor:		f Cont	015)	0=8021)	PA 3		[1						TAT starts the d	ay recevied by the		
σ	Sample Custody Sea	als: Yes N	IO N/A	Tota	I Containers:		er of	PA 8	EPA	le (E			1									lab, if receiv	ved by 4:30pm		
Page 2	Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA 8015)	BTEX (EPA	Chloride (EPA												Sample	Comments		
23 0	PHO	3B	S	12/01/2021	1210	3'	1	x	x	x												H	OLD		
of 25	PHOS		S	12/01/2021	1215	4'	1	x	x	x											Н	OLD			
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	Total 200.7 / 6					M Texas 11 LP 6010: 8R													< Se	Ag Si		Na Sr TI Sn l 31/245.1/747			
		(s) and Metal(s						_					_		_		_				103	517 245.17 747	0//4/1. Hg		
	Notice: Signature of this of service. Xenco will be of Xenco. A minimum ch	liable only for the o	cost of same	oles and shall no	assume any re	sponsibility for a	ny loss	es or ex	penses	incurre	d by the	client li	such lo	sses are d	due to	o circum	stances	beyone	d the co	ons ntrol					
	Relinguished by	: (Signature)	T	Received	by: (Signatu	ire)		Date	/Time		R	linqui	shed b	y: (Sig	natu	re)		Rece	eived b	oy: (Sig	gnatu	re)	Date/Time		
	1 Uli larta	1	7	24	5		12-0	2-	21	_	2	10	R	J.		12:2	.21	132	4						
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12/8/2021																						Revised	Date 051418 Rev 2018 1		
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14

Job Number: 890-1670-1

SDG Number: 31403236.029 TASK #02.02

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1670 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	N/A	

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

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1670

Job Number: 890-1670-1

SDG Number: 31403236.029 TASK #02.02

List Source: Eurofins Xenco, Midland List Creation: 12/03/21 12:45 PM

List Number: 2 Creator: Kramer, Jessica			List Creation: 12/03/21 12:45 PM
Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		

Received by OCD: 3/24/2022 7:51:08 AM

Released to Imaging: 7/25/2022 9:40:55 AM
	6	SAFETY I	DATA SHEET
Issuing Date 01-Aug-2019	Revision Date 01-Aug-2	019	Revision Number 1
1. IDENTIFICAT	ION OF THE SUBSTANCE COMPANY/UNDER		ND OF THE
Product identifier_			
Product Name	POLYglide Xcel-200		
Other means of identification_			
Product Code(s)	10497		
Synonyms	None		
Recommended use of the chemica	al and restrictions on use_		
Recommended Use	No information available		
Uses advised against	No information available		
Details of the supplier of the safet	y data sheet_		
Supplier Address PfP Industries 29738 Goynes Rd. Katy, TX 77493	Manufacturer Address PfP Industries 29738 Goynes Rd. Katy, TX 77493		
Emergency telephone number_			
Company Phone Number	281-371-2000		
Emergency Telephone	Chemtrec 1-800-424-9300		
	2. HAZARDS IDENTIF	ICATION	
Classification			
This chemical is considered hazardo	us by the 2012 OSHA Hazard Comm	unication Standard (29 CF	R 1910.1200)

Flammable liquids

Category 4

Hazards not otherwise classified (HNOC) ______ Not applicable

Label elements

warning

combustible liquid

Appearance Opaque Physical state Liquid Odor Mineral Oil

Precautionary Statements - Prevention

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

Precautionary Statements - Response

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

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

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

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

4. FIRST AID MEASURES

Description	of first aid	measures
-------------	--------------	----------

Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8).
Most important symptoms and effect	cts, both acute and delayed
Symptoms	No information available.
Indication of any immediate medica	l attention and special treatment needed

Note to physicians Treat symptomatically.

10497 - POLYglide Xcel-200

Revision Date 01-Aug-2019

	5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.	
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.	
Specific hazards arising from the chemical	Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.	
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective en	guipment and emergency procedures	
Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.	
Environmental precautions		
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike fa ahead of liquid spill for later disposal.	
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation.	
Conditions for safe storage, includ	ing any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.	

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Opaque	
Color	Milky white to yellow	
Odor	Mineral Oil	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	>= 67 °C / 153 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	0.97 - 1.03	
Water solubility	Miscible in water	
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	≥150 mm²/s	
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

No information available
No information available

10. STABILITY AND REACTIVITY

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

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics

Symptoms

No information available.

Numerical measures of toxicity

Acute toxicity

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

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

Component Information

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

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

Skin corrosion/irritation

No information available.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea						
Petroleum distillates, hydrotreated light 64742-47-8	-	2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static	-	4720: 96 h Den-dronereides heteropoda mg/L LC50						
Persistence and degrada	bility No information	on available.								
Bioaccumulation	There is no d	lata for this product.								
Other adverse effects	No information	on available.								
	13. DISF	POSAL CONSIDER	ATIONS							
Waste treatment method	<u>s</u>									
Waste from residues/unu products	Dispose of in environmenta	accordance with local reg al legislation.	ulations. Dispose of waste	in accordance with						
Contaminated packaging	Contaminated packaging Do not reuse empty containers.									
	14. TR/	ANSPORT INFORM	IATION							
DOT	Not regulated	d. Product does not sustair	a combustion (49 CFR 173	.120(b)(3))						
	15. REG	ULATORY INFORM	MATION							
International Inventories TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL	Complies Complies Complies Does not con Complies Complies	nply								

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PICCS	Complies
AICS	Complies

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

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

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

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

CERCLA

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

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

NFPA	Health hazards 2 Flammability	2 Instability 0	Physical and chemical properties -
HMIS	Health hazards 2 Flammability	2 Physical hazards 0	Personal protection X
Issuing Date	01-Aug-2019		
Revision Date	01-Aug-2019		
Revision Note	No information available.		

Disclaimer

The data supplied herein is for use only in connection with occupational safety and health. The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Updates to this information may be obtained by contacting (either reference contact location or website). PfP Industries MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. This information is not meant to be an all-inclusive document on worldwide hazard communication regulations. Each user of the material described herein must evaluate the conditions of use and design, many of which will be solely within the user's knowledge and control, and the appropriate protective actions, including proper notification and training of employees, necessary to prevent employee exposures, property damage or release to the environment.

End of Safety Data Sheet

Received by OCD: 3/24/2022 7:51:08 AM





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

ION	OSE POD NO C-4624 PC	-	NO.)			WELL	TAG ID NO.			OSE FI C-462	ile no(24	S).			
LOCAT	WELL OWNER NAME(S) XTO ENERGY INC								PHONE (OPTIONAL) 432-236-3808						
WELL	well own 6401 HOL									CITY MIDI	LAND		state TX	79707	ZIP
GENERAL AND WELL LOCATION	WELL DEGREES LOCATION LATITUDE 32						4INUTES SECONDS 6 5.66 N * ACCURACY RE					REQUIRED: ONE TENTH OF A SECOND			
CNER	(FROM G)	GITUDE		49	5.79										
Description relating well location to street address and common landmarks - plss (section, townshiip, range) where available ON POKER LAKE UNIT 30 BS # 103H PAD											LABLE				
	LICENSE NO. NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY WD-1184 RUSSELL SOUTHERLAND WEST TEXAS WATER WELL SERVICE														
							DUTHERL					WEST TEXAS			
	DRILLING S 06/2			DRILLING ENDED 06/22/22	DEPTH OF CO	MPLETE 120	-		BORE HOI	LE DEPT	H (FT)	DEPTH WATER FIR	ST ENCOU	NTERED (FT)	
NO	COMPLETE	D WELL I	:S:	ARTESIAN	🗸 DRY HOL	E	SHALLOW	V (UNCON	FINED)			STATIC WATER LEV	VEL IN CON N/A	MPLETED WE	LL (FT)
ATIC	DRILLING FLUID: AIR MUD						ADDITIVE	ES – SPECI	FY:			L			
ORM	DRILLING METHOD: 🔽 ROTARY 🗌 HAMMER 🗍 🛛					CABLE TO	DOL		R – SPEC	CIFY:					
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO			BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		and	CASING CONNECTION TYPE (add coupling diameter)			CASING INSIDE DIAM. (inches)	THICKNESS SIZ		SLOT SIZE (inches)	
& CA									(add coupl	ing diam	ieter)				
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							FOD NO.				TRN N	ю.			

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

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	FROM	TO	THICKNESS (feet)	INCLUDE	OR AND TYPE OF MA WATER-BEARING CA ach supplemental sheets	VITIES OR FRAC	CTURE ZONE	s	WA' BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
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	17	30			SAI				 Y	√ N	
	30	40			SAND, SMAI				Y	√ N	
	40	95			SAI		·····		 Y	√ N	
	95	120			SANDSTO	NE, SAND			 Y	√ N	
1									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
OF									Y	N	
LOG									Y	N	
SIC									Y	N	
LOC									Y	N	
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									1	DATE	
	OSE INTERN	AL USE					WR-20 WEL	L RECC)RD & L	OG (Vers	ion 04/30/2019)
	E NO.				POD NO.		TRN NO.				
	CATION					WELL	AG ID NO.				PAGE 2 OF 2

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

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

District III

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

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

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

CONDITIONS

Operator:		OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	92777
		Action Type:
		[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved. Please implement 19.15.29.13 NMAC when completing P&A.	7/25/2022

Action 92777