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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2106357887
District RP	
Facility ID	
Application ID	

Release Notification

Responsible	Party XTO) Energy		OGRID	5380		
Contact Name Kyle Littrell				Contact Te	Contact Telephone 432-221-7331		
		l@exxonmobil.cor	n	Incident #	(assigned by OCD)		
		522 W. Mermod		8220			
			Location	of Release So	ource		
atitude 32.0)9421			Longitude _	-103.83555		
			(NAD 83 in de	cimal degrees to 5 decin	mal places)		
Site Name F	PLU PB 25-2	25-30		Site Type F	Battery		
Date Release	Discovered	2/22/2021		API# (if app	plicable)		
Unit Letter	Castian	Townskin	Дамаа	Cour			
	Section	Township	Range	Coun			
N 25 25S 30E E				Edd	ly		
			I that apply and attach	d Volume of l	justification for the volumes provided below)		
Crude Oil	l	Volume Release	d (bbls)		Volume Recovered (bbls)		
× Produced	Water	Volume Release	d (bbls) 95		Volume Recovered (bbls) 95		
		in the produced v	ion of total dissol water >10,000 mg		☐ Yes ☐ No		
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	48-nour	iner inspection w	as sent to NMOC	d to release into im CD District 2. Lines retained for remed	permeable containment. All fluids were recovered. If was inspected and determined not to be operating adiation activities.		

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAPP2106357887
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Was this a major	If YES, for what reason(s) does the response	onsible party consider this a major release?
release as defined by	A release equal to or greater than 25 barr	els.
19.15.29.7(A) NMAC?		
¥ Yes □ No		
TAVIDO		
		whom? When and by what means (phone, email, etc)?
		EMNRD; 'robert.Hamlet@state.nm.us' emily.hernandez@state.nm.us
on Tuesday, February 23,	2021 8.40 AIVI VIA EIIIAII.	
	T 242 - 1 T	
	Initial R	Response
The responsible	party must undertake the following actions immediat	ely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
★ All free liquids and re	ecoverable materials have been removed an	nd managed appropriately.
If all the actions described	d above have not been undertaken, explain	why:
NA		
		remediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
		please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		iffications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thr	eat to groundwater, surface water, human health or the environment. In
	·	f responsibility for compliance with any other federal, state, or local laws
anu/or regulations.		
Printed Name: Adrian Ba	ıker	Title: Environmental Coordinator
Signature: Oak	aker	Date: 3/4/21_
email: adrian.baker@exx	conmobil.com	Telephone: 432-221-7331
email:		Telephone:
OCD Only		
_		
Received by:		Date:

PLU PB 25-25-30		
2/22/2021		
Area 1		
rea =	533.39	cu.ft.
VOLUME OF LEAK		
Water =	95.00	bbls
TOTAL VOLUME OF LEAK	, and the second	
Water =	95.00	bbls
TOTAL VOLUME RECOVERED		
Water =	95.00	bbls
	2/22/2021 Area 1 rea = VOLUME OF LEAK Water = TOTAL VOLUME OF LEAK Water = TOTAL VOLUME RECOVERED	2/22/2021 Area 1

re of New Mexico

Incident ID

p A DD2106357887

Incident ID nAPP2106357887

District RP
Facility ID
Application ID

Site Assessment/Characterization

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

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

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

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

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

Received by OCD: 5/12/2021 11:02:06 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 3 of 14	ŧ.
cident ID	nAPP2106357887	
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Application ID

Received by OCD: 5/12/2021 11:02:06 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2106357887
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title: Environmental Manager
Printed Name: Kyle Littrell Signature:	Date: <u>05/03/2021</u>
email: Kyle.Littrell@exxonmobil.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

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Incident ID	nAPP2106357887
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be incl	uded in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC	
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integr	rity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office m	ust be notified 2 days prior to final sampling)
Description of remediation activities		
I hereby certify that the information given above is true and complete and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remainment human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the O	n release notification a C-141 report by nediate contamina a C-141 report doctions. The responditions that exists	ons and perform corrective actions for releases which the OCD does not relieve the operator of liability tion that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for sible party acknowledges they must substantially ed prior to the release or their final land use in
Printed Name: Kyle Littrell	Title:	Environmental Manager
Printed Name: Kyle Littrell Signature:	Date: <u>05/0</u>	03/2021
email: Kyle.Littrell@exxonmobil.com	Telephone:	432-221-7331
OCD Only		
Received by: Robert Hamlet	Date:	7/20/2021
Closure approval by the OCD does not relieve the responsible party or remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal, state, or local laws and/or compliance with any other federal with the complex contribution of the complex complex contribution of the complex contributi	water, human heal	
Closure Approved by: Robert Hamlet	Date: _	7/20/2021
Printed Name: Robert Hamlet	_ Title:	Environmental Specialist - Advanced

wsp

WSP USA

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

May 6, 2021

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

RE: Closure Request
PLU PB 25-25-30
Incident Number nAPP2106357887
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 PLU PB 25-25-30 (Site) in Unit N, Section 25, Township 25 South, Range 30 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 a release of produced water within lined containment 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 nAPP2106357887.

RELEASE BACKGROUND

On February 22, 2021, corrosion on a water dump line resulted in the release of approximately 95 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 95 bbls of the released produced water were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on February 23, 2021 and submitted a Release Notification Form C-141 on March 4, 2021. The release was assigned Incident Number nAPP2106357887.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During March 2021, WSP installed a soil boring (C-4498) within 0.5 miles of the Site utilizing a truck-



District II Page 2

mounted hollow-stem auger rig. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 0.5 miles northwest of the Site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent streambed, located approximately 238 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

TPH: 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

On April 7, 2021, WSP personnel visited the Site to evaluate the release extent and conduct site assessment activities. WSP personnel advanced one core hole (CH01) via core drill near the location of the tear in the liner identified during the liner integrity inspection. Four additional core holes (CH02 through CH05) were advanced around the lined containment to confirm the lateral extent of the release. Two soil samples were collected from each core hole at depths of 1-foot and 2 feet bgs. Soil from the core holes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the core holes were documented on lithologic/soil sampling logs and are included as Attachment 2. The core holes were backfilled with the soil removed and XTO repaired the tear in the liner.



District II Page 3

The core hole delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 3.

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

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples CH01/CH01A through CH05/CH05A, collected at depths of 1 foot and 2 feet bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, WSP personnel advanced five core holes (CH01 through CH05) within and around the lined containment to assess for the presence or absence of soil impacts resulting from the February 22, 2021 produced water release within lined containment. Two delineation soil samples were collected from each core hole (CH01 through CH05), at depths of 1-foot and 2 feet bgs. Laboratory analytical results for the delineation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly below the tear in the liner, XTO respectfully requests NFA for Incident Number nAPP2106357887.

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

Sincerely,

WSP USA Inc.



District II Page 4

Your Januarys

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

Ashley L. Ager

Kalei Jennings Associate Consultant

cc:

Kyle Littrell, XTO

Bureau of Land Management

Attachments:

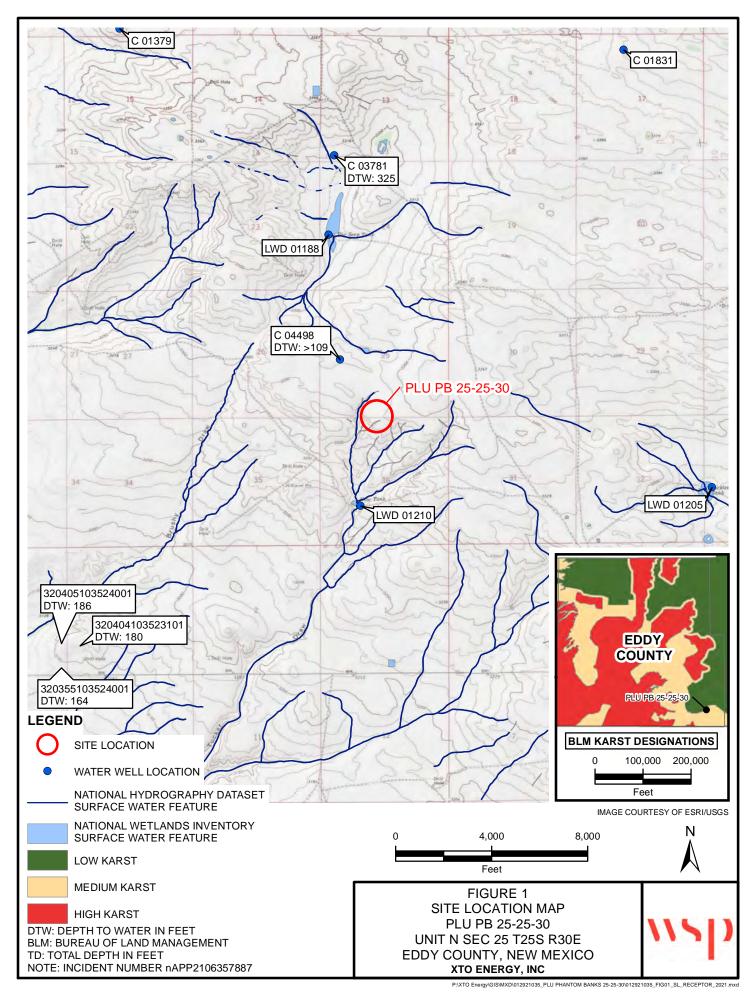
Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Sampling Log

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports



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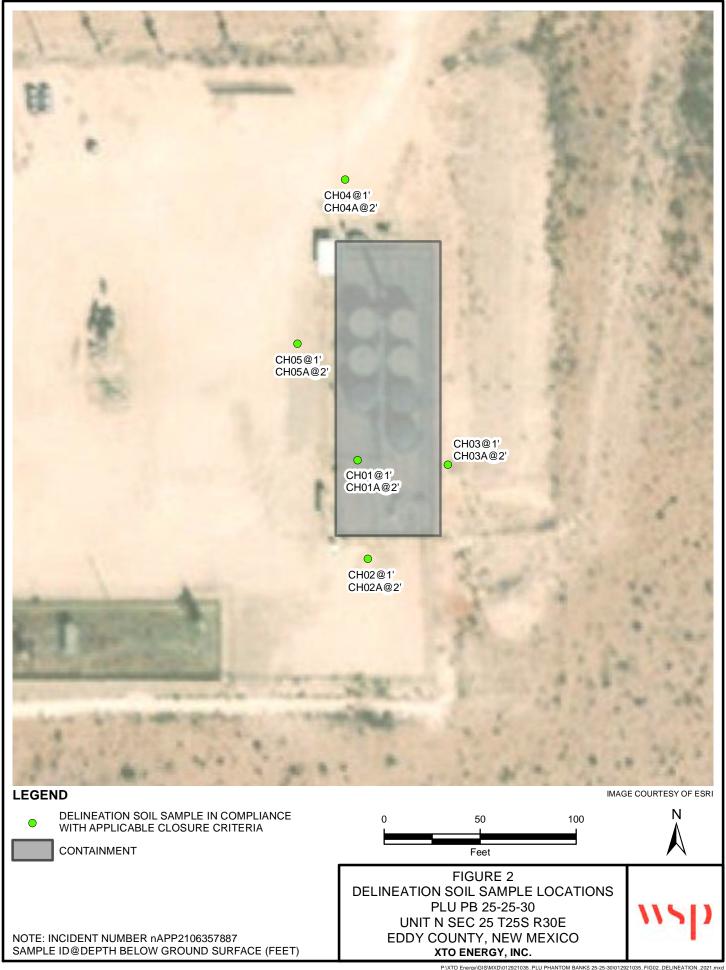


Table 1

Soil Analytical Results PLU PB 25-25-30 Incident Number nAPP2106357887 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Delineation Sample	es									
CH01	04/07/2021	1	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	28.4
CH01A	04/07/2021	2	< 0.00198	< 0.00198	< 50.0	<50.0	< 50.0	< 50.0	< 50.0	472
CH02	04/07/2021	1	0.00965	0.0246	<49.9	<49.9	<49.9	<49.9	61.5	39.0
CH02A	04/07/2021	2	< 0.00199	< 0.00199	<50.1	<50.1	<50.1	< 50.1	< 50.1	36.7
CH03	04/07/2021	1	< 0.00200	< 0.00200	<50.0	< 50.0	<50.0	< 50.0	< 50.0	80.1
CH03A	04/07/2021	2	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	42.5
CH04	04/07/2021	1	< 0.00202	< 0.00202	<50.0	< 50.0	<50.0	< 50.0	< 50.0	219
CH04A	04/07/2021	2	0.00230	0.00230	<49.9	<49.9	<49.9	<49.9	<49.9	69.3
CH05	04/07/2021	1	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	20.2
CH05A	04/07/2021	2	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	30.3

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.afkinseng.com

03/11/2021

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

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4498 Pod1

To whom it may concern:

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

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grown Middle

DSE DIT MAR 11 2021 #44:22

TA R



OSE DII MAR 11 2021 PM4:22

									1,40,	
N.	OSE POD NO. POD1 (BI		.)	weli n/a	TAG ID NO.		OSE FILE NO(C-4498	S).	HHA	
САТІС	WELL OWNE						PHONE (OPTI	ONAL)	Bridge	
רוכ	WELL OWNE	R MAILING	ADDRESS				CITY		STATE	ZIP
WEL	6401 Holid	ay Hill D	r.				Midland		TX 79707	
GENERAL AND WELL LOCATION	WELL LOCATION		TITUDE	32°		96" _N		REQUIRED: ONE TEN'	TH OF A SECOND	
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1.9			NG WELL LOCATION TO T25S R30E	STREET ADDRESS A	ND COMMON LANDI	MARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO.		NAME OF LICENSED		D. Atkins			NAME OF WELL DRI Atkins Eng	ILLING COMPANY gineering Associates, I	nc.
	DRILLING ST 02/24/2		DRILLING ENDED 02/24/2021	DEPTH OF COMPLET temporary w	, ,	1	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT) n/a	
-	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LEV	VEL IN COMPLETED WE n/a	LL (FT)
TIOIL	DRILLING FL	.UID:	AIR	MUD	ADDITTVES – SPI	ECIFY:				
RMA	DRILLING M	ETHOD:	ROTARY	HAMMER	CABLE TOOL	✓ OTHE	R – SPECIFY:	Hollo	ow Stem Auger	
2. DRILLING & CASING INFORMATION	DEPTH ((feet bgl)	BORE HOLE DIAM	CASING MATE	ERIAL AND/OR ADE		ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
NISIN	TROM	10	(inches)	(include each cannote section	sing string, and s of screen)	1 т	TYPE ling diameter)	(inches)	(inches)	(inches)
/2 %	0	109	±6.5	Boring				-	-	-
NG										
ILL										
MG.										
71	-		+							
	DEPTH (feet hgl)	BORE HOLE	LISTAN	NULAR SEAL MA	ATERIAL A	AND	AMOUNT	METHO	D OF
AL.	FROM	TO	DIAM. (inches)		ACK SIZE-RANG			AMOUNT METHOD OF (cubic feet) PLACEMENT		
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AR I										
TOL										
ANNULAR MATERIAL										
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	OSE INTERI	NAL USE			POD NO.		WR-20		& LOG (Version 06/3	0/17)
-	E NO. CATION				TODINO.		WELL TAG II		PAGE	1 OF 2
	4 1 1 TO11						WELL IAUII	JIV.	11101	

OSE DIT MPR 11 2021 24:21

	DEPTH (f	eet bgl)		COLOR AND TYPE OF MATERIAL ENCO	UNTERED -	WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FR (attach supplemental sheets to fully described)	ACTURE ZONES	BEARING? (YES 7 NO)	WATER- BEARING ZONES (gpm)
	0	34	34	Caliche, tan, no odor, no stain, gravel	, dry	Y ✓N	
	34	40	6	sand/ cacliche, tan, no odor, no stain, m-f grain,	well sorted, dry	Y ✓N	
	40	56	16	sand, tan, no odor, no stain, m-f grain, well	sorted, dry	Y ✓N	
	56	72	16	sandstone, low consolidation, tan, no odor, no stain, m-	f grain, well sorted, dry	y √n	
	72	79	7	sand, tan, no odor, no stain, m-f grain, well		Y /N	
	79	109	30	sandstone, low - medium consolidation, tan, no odor, m-	f grained, well sorted,	1	
						YN	
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THE WORLD CONTROL OF WINDS						Y N	
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						YN	
7	METUODII	SED TO E	STIMATE VIELI	OF WATER-BEARING STRATA:	то	TAL ESTIMATED	
	PUMP		IR LIFT	BAILER OTHER - SPECIFY:		ELL YIELD (gpm):	0.00
	WELL TEST			ACH A COPY OF DATA COLLECTED DURING WEL ME, AND A TABLE SHOWING DISCHARGE AND DI			
LEST; KIG SUPERVISION	MISCELLAN	EOUS IN	fé	emporary well materials removed and the soil boring the below ground surface, then hydrated bentonite ch ogs adapted from WSP on-site geologist.	g backfilled using d nips from ten feet be	rill cuttings from tot low ground surface	al depth to ten to surface.
3. 1153	PRINT NAM Shane Eldrid		RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION	OF WELL CONSTR	UCTION OTHER TH	AN LICENSEE
	CORRECT R	ECORD C	F THE ABOVE	FIES THAT, TO THE BEST OF HIS OR HER KNOWLI DESCRIBED HOLE AND THAT HE OR SHE WILL FII 30 DAYS AFTER COMPLETION OF WELL DRILLING	LE THIS WELL REC	THE FOREGOING I ORD WITH THE STA	S A TRUE AND TE ENGINEER
	Jack K	1tkins		Jackie D. Atkins		03/11/2021	
		SIGNAT	URE OF DRILL	ER / PRINT SIGNEE NAME		DATE	
O.	R OSE INTERN	NAL USE			WR-20 WELL R	ECORD & LOG (Ver	sion 06/30/2017
Uľ				POD NO.	TRN NO.		
	E NO.			POD NO.	TRIVINO.		



PLUGGING RECORD



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

	ENERAL/WELL OWNERSHIP:			
State	Engineer Well Number: C-4498- POD1			
Well	owner: XTO ENERGY (Kyle Littrell)		Phone No.: <u>43</u>	2.682.8873
Maili	ing address: 6401 Holiday Hill Dr.			
City:	Midland	State:	Texas	Zip code:
<u>II. V</u>	VELL PLUGGING INFORMATION:			
1)	Name of well drilling company that plugg	ed well: Jackie	D. Atkins (Atkins Engineering	g Associates Inc.)
2)	New Mexico Well Driller License No.:			eation Date: 04/30/21
3)	Well plugging activities were supervised l Shane Eldridge	by the following	well driller(s)/rig supervisor(s):
4)	Date well plugging began: 03/02/2021	D	ate well plugging concluded	03/02/2021
5)	GPS Well Location: Latitude: Longitude:		6 min, 1.96 50 min, 26.19	sec sec, WGS 84
6)	Depth of well confirmed at initiation of pl by the following manner: weighted tape	ugging as:1	09 ft below ground level	(bgl),
7)	Static water level measured at initiation of	fplugging:r	n/a ft bgl	
8)	Date well plugging plan of operations was	approved by the	State Engineer: 12/01/202	<u>0</u>
9)	Were all plugging activities consistent wit differences between the approved pluggin			

Version: September 8, 2009 Page 1 of 2 Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 16 gallons	16 gallons	Augers	
; -					
-	10'-109' Drill Cuttings	Approx. 171 gallons	171 gallons	Boring	105
; -					F 4 2
-					STICAL.
_				DSEDTK	AR 11 2021 M4:22
-					
19 -1					
18 -1					
0 .					
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	3Y AND OBTAIN 805 = gallons 77 = gallons		

III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules of the Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging R are true to the best of my knowledge and belief.	
Jack Atkins	03/11/2021

Signature of Well Driller

Version: September 8, 2009 Page 2 of 2

Date

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

Final Audit Report 2021-03-11

Created: 2021-03-11

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signer

Transaction ID: CBJCHBCAABAAq2m7g1wGV8cRoBzMugpPTk25-4ojFW8H

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

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

 Signature Date: 2021-03-11 7:31:05 PM GMT Time Source: server- IP address: 74.50.153.115

OSE DIT MAR 11 2021 PM4:22

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



١	1	1)		WS 08 (Alve) 1 shed, Ne			BH or PH Name: CHOI Site Name: PluPhinton Banks 25-25-30 RP or Incident Number: NA PPI 106357887 WSP Job Number: TE 0 129 21 035
		LITH	OLOC	SIC / SOIL			G	Logged By BB. T.C Method: Come Dr. Wing
SZ.	ng: 094188 -	10 3.8	355	72	Field Scre	ening:	ides	Hole Diameter: 1.5" Total Depth: 4"
Comm	nents: A	1 chl	.ril	e-tests.	helede	x 409	6 corne	tion factor.
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)		Lithology/Remarks
M	١٦٤٦	0.8	N	CHOI	1' -	1	CCHE	0-4' (ALICHE, ten-lisht bram, moist, well consolidated, indurated, some coord send, no stain, no odor.
~	313	0.2	,,	CHOI A	z'-	2		2, sand absent
^	ZST	0.5	N	CHOI B	4' -	4	70€ 4'	TD @ 4' bys.
						6 7 8 9 10		
			4			12		

at/Lor	9404	LITHO	835	GIC / SOIL	SAMPL	ening:	RAZZO G Les	Site Name: PW Phanton Braks 25-25-30 RP or Incident Number: NA PP 2106357887 WSP Job Number: + E0129 21035 Logged By: BB TC Method: Core Drilling Hole Diameter: 1.5" Total Depth: 2'
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)		Lithology/Remarks
u	4124	0.0	~	CHOZ	1' -	1	CCHE	0-2' CALICHE, tra - light brown, wet, well consolidated, indurated, some source send, no strong, no odor. 2', moist.
^	2124	0.0	N	CHOZA	2' -	2 3 4 5 6 7 8 9 10 11	TDE 2'	- Moisture content due to Preshuctar needed for coredr. Ming. +DE 4' bgs.
						12		

Lat/Lo	ng: .09418	1 -10	3.8	Can SIC / SOIL	SAMPL	ING LO	G rides	BH or PH Name: Site Name: PLU Phonton Forks 25-25-30 RP or Incident Number: NAPP 2106357787 WSP Job Number: TE 0129 21055 Logged By: BD TC Method: Lon Dr. Il ing Hole Diameter: 1.5" Date: 4 -7-2021 Method: 25-25-30 Method: Lon Dr. Il ing Total Depth: 2'
Moisture O	ents: A	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	. 40	% Cock	Lithology/Remarks
				CHO3 CHO3A	1	0	SO WHE	0-2' LALICHE, tan-light brown, wet, well consolidated, industed, some coura sond, no stein, no odor, - mostum content due to floesh unter record for one dr. 71ing. TDC 2'bgs.

Lat/Lo	ing: 2,0945	90,-1	03.8	GIC / SOII	SAMPL Field Scre	LING LO	BA220 G Mes.	BH or PH Name: CHO 4 Site Name: PLV Phone Books 25-25-30 RP or Incident Number: NA PP 2106357887 WSP Job Number: TE 0129 21035 Logged By: BB, TC Method: Con Drilling Hole Diameter: 1.5" Date: 4 -7 -7 -2 - 21 Method: Con Drilling Total Depth: Z'
Moisture Content	A	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)		USCS/Rock Symbol	Lithology/Remarks
M	2124	0.0	~	СНОЧ	1 1' -	1	CCHE	o-2' CALICHE, ten-light bown, moist, well considered, inducated, some coarse send, no stair, no odor.
*	2124	0.0	~	СНОЧА	2'	2 3 4 5 6 7 8 9 10 11	TDEZI	2', sad absent. TO 0 2'.

Lat/Lo	ng: 294/39 nents: #	LITHO	7	Can SIC / SOIL	SAMPL	ING LO	88220 G	BH or PH Name: One of the property of the pro
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
^	2124	0.0	N	61+05	1'	1	CCHE	Under consolidated, indurated, some
~	2124	0,0	N	CHOSA	z' -	2	TO@2'	7, send absent.
						4		
					-	5		
						7		
					-	8		
						10		
						11 11 12 12		

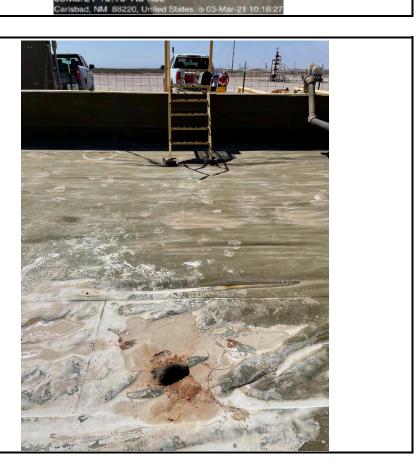


	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	PLU PB 25-25-30	nAPP2106357887
	Eddy County, New Mexico	

Photo No.	Date
1	March 3, 2021
View of comprom	

Photo No.	Date
2	March 3, 2021

View of core hole (CH01) taken from inside lined containment.





PHOTOGRAPHIC LOG				
XTO Energy, Inc.	PLU PB 25-25-30	nAPP2106357887		
	Eddy County, New Mexico			

Photo No. Date

3 April 7, 2021

View of core hole (CH02) taken south of the tank battery.



 Photo No.
 Date

 4
 April 7, 2021

View of core hole (CH05) taken west of the tank battery.



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-498-1

Client Project/Site: PLU PB 25-25-30

For:

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

Attn: Dan Moir

WRAMER

Authorized for release by: 4/20/2021 8:52:20 AM

Jessica Kramer, Project Manager (432)704-5440

iessica.kramer@eurofinset.com

Review your project

results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 7/20/2021 11:33:02 AM

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

B Compound was found in the blank and sample.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Job ID: 890-498-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-498-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH02 (890-498-1) and CH02 A (890-498-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1589 and analytical batch 880-1569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Job ID: 890-498-1

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Client Sample ID: CH02 Lab Sample ID: 890-498-1 Matrix: Solid

Date Collected: 04/07/21 12:20 Date Received: 04/07/21 17:00

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00965		0.00200	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
Toluene	0.00641		0.00200	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
Ethylbenzene	0.00855		0.00200	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
Total BTEX	0.0246		0.00200	mg/Kg		04/08/21 11:09	04/09/21 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130			04/08/21 11:09	04/09/21 20:15	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/08/21 11:09	04/09/21 20:15	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	61.5	В	49.9	mg/Kg		04/08/21 11:45	04/10/21 07:20	1
(GRO)-C6-C10								
	<49.9	U	49.9	mg/Kg		04/08/21 11:45	04/10/21 07:20	1
(GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/08/21 11:45	04/10/21 07:20	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9 <49.9		49.9 49.9	mg/Kg mg/Kg		04/08/21 11:45 04/08/21 11:45	04/10/21 07:20 04/10/21 07:20	1

o-Terphenyl	99		70 - 130			04/08/21 11:45	04/10/21 07:20	1
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.0		5.00	mg/Kg			04/18/21 23:04	1

Limits

70 - 130

%Recovery Qualifier

91

Client Sample ID: CH02 A Lab Sample ID: 890-498-2 Date Collected: 04/07/21 12:40

Date Received: 04/07/21 17:00

Sample Depth: - 2

Surrogate

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		04/08/21 11:09	04/09/21 20:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			04/08/21 11:09	04/09/21 20:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130			04/08/21 11:09	04/09/21 20:35	1

Eurofins Xenco, Carlsbad

Prepared

04/08/21 11:45

Analyzed

04/10/21 07:20

Dil Fac

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH02 A Lab Sample ID: 890-498-2

Date Collected: 04/07/21 12:40

Date Received: 04/07/21 17:00

Matrix: Solid

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		04/08/21 11:45	04/10/21 07:44	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		04/08/21 11:45	04/10/21 07:44	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/08/21 11:45	04/10/21 07:44	1
Total TPH	<50.1	U	50.1	mg/Kg		04/08/21 11:45	04/10/21 07:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			04/08/21 11:45	04/10/21 07:44	1
o-Terphenyl	106		70 - 130			04/08/21 11:45	04/10/21 07:44	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		4.96	mg/Kg			04/18/21 23:09	1

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-498-1	CH02	195 S1+	86	
890-498-2	CH02 A	91	114	
LCS 880-1511/1-A	Lab Control Sample	90	102	
LCSD 880-1511/2-A	Lab Control Sample Dup	91	108	
MB 880-1511/5-A	Method Blank	103	108	
Surrogate Legend				

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

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
890-498-1	CH02	91	99						
890-498-2	CH02 A	97	106						
LCS 880-1516/2-A	Lab Control Sample	101	98						
LCSD 880-1516/3-A	Lab Control Sample Dup	99	94						
MB 880-1516/1-A	Method Blank	102	112						

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1511/5-A

Matrix: Solid Analysis Batch: 1569 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1511

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	•
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	•
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	70 - 130	04/08/21 11:09	04/09/21 12:19	1
1,4-Difluorobenzene (Surr)	108	70 - 130	04/08/21 11:09	04/09/21 12:19	1

Lab Sample ID: LCS 880-1511/1-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1511

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.1012 mg/Kg 101 70 - 130 Toluene 0.100 0.1050 105 mg/Kg 70 - 130 Ethylbenzene 0.100 0.1022 mg/Kg 102 70 - 130 m-Xylene & p-Xylene 0.200 0.2035 102 70 - 130 mg/Kg 70 - 130 o-Xylene 0.100 0.09712 mg/Kg 97

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1 4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-1511/2-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1511

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09520		mg/Kg		95	70 - 130	6	35
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	4	35
Ethylbenzene	0.100	0.09488		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	4	35
o-Xylene	0.100	0.09283		mg/Kg		93	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qu	alitier Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

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

Lab Sample ID: MB 880-1516/1-A **Matrix: Solid**

Analysis Batch: 1566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1516

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	530.5		50.0	mg/Kg		04/08/21 11:45	04/09/21 22:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/08/21 11:45	04/09/21 22:08	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/08/21 11:45	04/09/21 22:08	1
Total TPH	530.5		50.0	mg/Kg		04/08/21 11:45	04/09/21 22:08	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/08/21 11:45	04/09/21 22:08	1
o-Terphenyl	112		70 - 130	04/08/21 11:45	04/09/21 22:08	1

Lab Sample ID: LCS 880-1516/2-A

Matrix: Solid

Analysis Batch: 1566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1516

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1180 118 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1005 mg/Kg 101 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-1516/3-A

Matrix: Solid

Analysis Batch: 1566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1516

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1187		mg/Kg		119	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	976.9		mg/Kg		98	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1778/1-A

Matrix: Solid

Analysis Batch: 1957

Client Sample ID: Method Blank

Prep Type: Soluble

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed <5.00 U Chloride 5.00 mg/Kg 04/18/21 20:42

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-1778/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 1957

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	257.7		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-1778/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1957

Spike LCSD LCSD %Rec. RPD RPD Added Result Qualifier Limits Limit Analyte Unit D %Rec Chloride 250 247.2 mg/Kg 99 90 - 110 4

QC Association Summary

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

GC VOA

Prep Batch: 1511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-498-1	CH02	Total/NA	Solid	5035	
890-498-2	CH02 A	Total/NA	Solid	5035	
MB 880-1511/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1511/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1511/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-498-1	CH02	Total/NA	Solid	8021B	1511
890-498-2	CH02 A	Total/NA	Solid	8021B	1511
MB 880-1511/5-A	Method Blank	Total/NA	Solid	8021B	1511
LCS 880-1511/1-A	Lab Control Sample	Total/NA	Solid	8021B	1511
LCSD 880-1511/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1511

GC Semi VOA

Prep Batch: 1516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-498-1	CH02	Total/NA	Solid	8015NM Prep	
890-498-2	CH02 A	Total/NA	Solid	8015NM Prep	
MB 880-1516/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1516/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1566

Lab Sample ID 890-498-1	Client Sample ID CH02	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch
890-498-2	CH02 A	Total/NA	Solid	8015B NM	1516
MB 880-1516/1-A	Method Blank	Total/NA	Solid	8015B NM	1516
LCS 880-1516/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1516
LCSD 880-1516/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1516

HPLC/IC

Leach Batch: 1778

Lab Sample ID 890-498-1	Client Sample ID CH02	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-498-2	CH02 A	Soluble	Solid	DI Leach	
MB 880-1778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-498-1	CH02	Soluble	Solid	300.0	1778
890-498-2	CH02 A	Soluble	Solid	300.0	1778
MB 880-1778/1-A	Method Blank	Soluble	Solid	300.0	1778
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	300.0	1778
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1778

Eurofins Xenco, Carlsbad

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Edicinio Acrico, Cariobad

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH02 Lab Sample ID: 890-498-1

Matrix: Solid

Date Collected: 04/07/21 12:20 Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1511	04/08/21 11:09	MR	XM
Total/NA	Analysis	8021B		1	1569	04/09/21 20:15	MR	XM
Total/NA	Prep	8015NM Prep			1516	04/08/21 11:45	DM	XM
Total/NA	Analysis	8015B NM		1	1566	04/10/21 07:20	AJ	XM
Soluble	Leach	DI Leach			1778	04/14/21 10:22	SC	XM
Soluble	Analysis	300.0		1	1957	04/18/21 23:04	WP	XM

Client Sample ID: CH02 A Lab Sample ID: 890-498-2

Date Collected: 04/07/21 12:40 Matrix: Solid Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1511	04/08/21 11:09	MR	XM
Total/NA	Analysis	8021B		1	1569	04/09/21 20:35	MR	XM
Total/NA	Prep	8015NM Prep			1516	04/08/21 11:45	DM	XM
Total/NA	Analysis	8015B NM		1	1566	04/10/21 07:44	AJ	XM
Soluble	Leach	DI Leach			1778	04/14/21 10:22	SC	XM
Soluble	Analysis	300.0		1	1957	04/18/21 23:09	WP	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-498-1

Project/Site: PLU PB 25-25-30

Laboratory: Eurofins Xenco, Midland

Released to Imaging: 7/20/2021 11:33:02 AM

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Job

Project/Site: PLU PB 25-25-30

Job ID: 890-498-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
00.0	Anions, Ion Chromatography	MCAWW	XM
035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
Ol Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-498-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-498-1	CH02	Solid	04/07/21 12:20	04/07/21 17:00	- 1
890-498-2	CH02 A	Solid	04/07/21 12:40	04/07/21 17:00	- 2

Chain of Custody

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			1-7-21 17002	-	Me (july)	(n)	Sall
Date/Time	ture) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	3)	Received by: (Signature	y: (Signature)	Relinquished by: (Signature)
	are due to circumstances beyond the control enforced unless previously negotiated.	Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control annihmum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	sses or expenses incurred by mitted to Xenco, but not analy:	onsibility for any lo	s and shall not assume any respi ach project and a charge of \$5 to	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	of service. Xenco will be of Xenco. A minimum ch
		2	ant company to Xenco, its affili	ase order irolli dile	samples constitutes will build	document and relinquishment of	Notice: Signature of this
Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti S J Pb Mn Mo Ni Se Ag TI U 1631/245.1	Be B Cd Ca Cr Co Cu Fe Pb Be Cd Cr Co Cu Pb Mn Mo N	Sb As Ba Sb As Ba	CRA 13PPM Texas 11 AI	<u>۾</u>	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s)
				V			
			7 7 7	21	1 1240		CHO2A
			7	-	4-7-21 1220	8	CHO2
Sample Comments	Sar		TPH (E BTEX (Depth	Date Time Sampled Sampled	ntification Matrix	Sample Identification
lab, if received by 4:30pm	la b,	_	PA 8	3.6	Total Containers:	als: Yes No N/A	Sample Custody Seals:
TAT starts the day recevied by the	0-498 Chain of Custody TAT stan	890-498 Cha	802	4	Correction Factor:	Yes (No	Cooler Custody Seals:
			1)		200-MNZ	(Yes) No	Received Intact:
					Thermometer ID		Temperature (°C):
				No	Yes)No Wet ice: Yes	EIPT Temp Blank:	SAMPLE RECEIPT
1137191001	1/3			ate:	Due Date:	Travis Casey	Sampler's Name:
1001	4				Rush:		P.O. Number:
1.00 IL	7.40			e >	Routine	TE012921035	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around	Tun	PLU PB 25-25-30	Project Name:
Other:	Deliverables: EDD ADaPT	kalei.jennings@wsp.com, dan.moir@w		travis.casey@wsp.com,	Email: t	(432) 704-5178	Phone:
RRP bvel IV	Reporting:Level II ST/UST Reporting:Level III		Carlsbad, NM	City, State ZIP:		Midland, TX 79705	City, State ZIP:
			3104 E Greene St.	Address:		3300 North A St. Bldg 1, Unit 222	Address:
□RC □uperfund □	Program: UST/PSTPRPBrownfields!		XTO Energy	Company Name:		WSP USA Inc., Permian office	Company Name:
is	Work Order Comments		Kyle Littrell	Bill to: (if different)		Kalei Jennings	Project Manager:
e of	620-2000) www.xenco.com Page	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	(480-355-0900) Atlanta,GA	550) Phoenix,AZ	Hobbs, NM (575-392-7		-
		iouston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland TX (432-704-5440) FL Paso TX (915)585-3443 Lubbock TX (806)794-1296	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) Midland TX (432-704-5440) FL Paso TX (915):85-3443 Lubbock TX (806)?	X (281) 240-4200 TY (433-704-5440	Midland		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

1089 N Canal St.

Eurofins Xenco, Carlsbad

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Chain of Custody Record

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Environment Testing

State, Zip TX, 79701 Deliverable Requested | II III IV Other (specify) Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. CH02 (890-498-1) Project Name: PLU PB 25-25-30 Carlsbad, NM 88220 Phone 575-988-3199 Fax. 575-988-3199 CH02 A (890-498-2) Empty Kit Relinquished by ossible Hazard Identification elinquished by 132-704-5440(Tel) 1211 W Florida Ave elinquished by **fidland** linquished by: Custody Seals Intact. ample Identification - Client ID (Lab ID) rofins Xenco ipping/Receiving ient Information Yes 8 100 (Sub Contract Lab) Custody Seal No 15.8.7 Project #: 89000004 Phone Sampler: Date/Time: WO# PO# Due Date Requested Date/Time: Primary Deliverable Rank 2 TAT Requested (days) 4/13/2021 Sample Date 4/7/21 4/7/21 Date Mountain 12 40 Mountair Sample 12 20 (C=comp. Sample Type Preservation Code: Company Company Company S=solid O=waste/oil, Matrix Solid Solid jessica kramer@eurofinset.com Kramer, Jessica Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Time Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received by Received by Received by × × 8015MOD_NM/8016NM_S_Prep Full TPH Return To Client × × 300_ORGFM_28D/DI_LEACH Chloride Temperature(s) °C and Other Remarks 8021B/5035FP_Calc BTEX × × Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s): Method of Shipment Date/Time Date/Time Date/Time Archive For Total Number of containers A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor COC No: 890-154 1 Page: Page 1 of 1 Preservation Codes 890-498-1 DI Water Ascorbic Acid 된 Special Instructions/Note R Na2S2U3 S - H2SO4 T TSP Dodecahydrate Company Company M Hexane
N None
N NaSO2
Na2O4S
Na2SO3
Na2SO3
Na2SO3 Company MCAA / pH 4-5

Ver: 11/01/2020

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody F

Record	

Environment Testing America

Cilent Information (Sub Contract Lab) Client Contact Shipping/Receiving Company	Phone			E-Mail jessica k	E-Mail Jessica kramer@eurofinset com Accreditations Required (See not	@eurc	inset co	ā	70	State of Origin New Mexico	rigin			Page 1 of 1
Company: Eurofins Xenco				7 >	Accreditations Required (See note) NELAP - Louisiana NELAP	ns Requ Louisia	ired (See r	See note) NELAP - Texas	ļ					Job #: 890-498-1
Address 1211 W Florida Ave	Due Date Requested 4/13/2021	۵						Analysis	Requested	estec	-			Preservation Codes
City: City: Midland	TAT Requested (days).	ys).			4		=	\exists	\parallel	\dashv		\dashv	\dashv	26/08/2010
State Zip: TX, 79701														m o c
Phone: 432-704-5440(Tel)	PO#													# E⊕™
Email	WO #:				lo)									
Project Name: PLU PB 25-25-30	Project #: 89000004			DV:	s or l		EX							ainer
Site:	SSOW#:				D (Ye		alc BT							of con
			Sample	Matrix (W=water	iltered S m MS/M DD_NM/8	RGFM_28	5036FP_C							lumber
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab) вт	<u> </u>	Perfo		8021E							Total
		X	2-3-50 9		X					Maria Maria				X
СН02 (890-498-1)	4/7/21	12 20 Mountain		Solid	×	×	×							Δ
CH02 A (890-498-2)	4/7/21	12 40 Mountain		Solid	×	×	×							ک
													H	
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Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership being analyzed the s urn the signed Chain	of method an amples must b of Custody atte	nalyte & accreditate shipped back a sting to said coresting to sai	ation compliand to the Eurofins nplicance to Eu	nce upon ou s Xenco LL(Eurofins Xer	nt subcor C labora nco LLC	ntract labor tory or othe	atories. Ti er instructio	nis sampl yns will be	e shipme provide	ntisfon d Any	warded change:	under c to acci	hain-or editatio
Possible Hazard Identification Unconfirmed					Samp	Sample Disposa	_	(A fee may be assessed if samples are retained longer than 1 ☐ Disposal By Lab ☐ Archive For	y be as	assessed if san Disposal By Lab	difsa Bv/a	mples	□ are r	etained long Archive For
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	able Rank 2	2		Speci	al Instr	Special Instructions/QC Requirements	C Requ	remen	S)	ŀ			
Empty Kit Relinquished by		Date			Time					Me	Method of Shipment:	Shipmer		
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Custody Seals Intact Custody Seal No					CC	oder Ter	Cooler Temperature(s) °C		and Other Remarks	narks				

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-498-1

SDG Number:

Login Number: 498 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Released to Imaging: 7/20/2021 11:33:02 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-498-1

SDG Number:

Login Number: 498
List Source: Eurofins Midland
List Number: 2
List Creation: 04/08/21 03:34 PM

Creator: Copeland, Tatiana

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-499-1

Client Project/Site: PLU PB 25-25-30

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 4/15/2021 6:38:08 PM

Jessica Kramer, Project Manager (432)704-5440

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit
PRES Presumptive

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Job ID: 890-499-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-499-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH03 (890-499-1) and CH03 A (890-499-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1589 and analytical batch 880-1569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Client Sample ID: CH03

Date Collected: 04/07/21 13:00 Date Received: 04/07/21 17:00

Sample Depth: 1'

Lab	Sample	e ID:	890-4	99-1

Matrix: Solid

Job ID: 890-499-1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			04/09/21 12:06	04/10/21 03:10	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/09/21 12:06	04/10/21 03:10	1

Method: 8015B NM - Diesel Range	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		04/08/21 15:43	04/09/21 03:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/09/21 03:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/09/21 03:36	1
Total TPH	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/09/21 03:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			04/08/21 15:43	04/09/21 03:36	1

o-Terphenyl	102		70 - 130			04/08/21 15:43	04/09/21 03:36	1
Method: 300.0 - Anions, Ion Chromatog	graphy - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		5.00	mg/Kg			04/15/21 14:23	1

Client Sample ID: CH03 A Date Collected: 04/07/21 13:20

Date Received: 04/07/21 17:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 03:30	
Toluene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/09/21 12:06	04/10/21 03:30	1
1,4-Difluorobenzene (Surr)	110		70 - 130			04/09/21 12:06	04/10/21 03:30	1

Lab Sample ID: 890-499-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH03 A Lab Sample ID: 890-499-2

Date Collected: 04/07/21 13:20 Matrix: Solid
Date Received: 04/07/21 17:00

Sample Depth: 2'

Method: 8015B NM - Diesel Rang	,	, , ,	DI.	11!4	_	D	A l d	D!! F
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 03:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 03:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 03:57	1
Total TPH	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			04/08/21 15:43	04/09/21 03:57	1
o-Terphenyl	97		70 - 130			04/08/21 15:43	04/09/21 03:57	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.5		5.01	mg/Kg			04/15/21 14:28	1

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-499-1	CH03	86	108	
890-499-2	CH03 A	98	110	
LCS 880-1589/1-A	Lab Control Sample	93	114	
LCSD 880-1589/2-A	Lab Control Sample Dup	94	111	
MB 880-1511/5-A	Method Blank	103	108	
MB 880-1589/5-A	Method Blank	102	101	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Accep
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-499-1	CH03	99	102	
890-499-2	CH03 A	95	97	
LCS 880-1546/2-A	Lab Control Sample	109	104	
LCSD 880-1546/3-A	Lab Control Sample Dup	106	104	
MB 880-1546/1-A	Method Blank	109	117	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1511/5-A

Analysis Batch: 1569

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1511

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/08/21 11:09	04/09/21 12:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/08/21 11:09	04/09/21 12:19	1

Lab Sample ID: MB 880-1589/5-A Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 1569

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/09/21 12:06	04/10/21 02:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/09/21 12:06	04/10/21 02:06	1

Lab Sample ID: LCS 880-1589/1-A

Matrix: Solid

Analysis Batch: 1569

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

Prep Batch: 1589

Prep Batch: 1589

	Spike	LCS	LCS				%Rec.	
e	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ne	0.100	0.09701		mg/Kg		97	70 - 130	
e	0.100	0.09986		mg/Kg		100	70 - 130	
enzene	0.100	0.09672		mg/Kg		97	70 - 130	
ne & p-Xylene	0.200	0.1935		mg/Kg		97	70 - 130	
ne	0.100	0.09580		mg/Kg		96	70 - 130	
	e	e Added ne 0.100 e 0.100 enzene 0.100 ene & p-Xylene 0.200	e Added Result ne 0.100 0.09701 e 0.100 0.09986 enzene 0.100 0.09672 ene & p-Xylene 0.200 0.1935	e Added ne Result Qualifier ne 0.100 0.09701 e 0.100 0.09986 enzene 0.100 0.09672 ene & p-Xylene 0.200 0.1935	e Added nee Result nee Qualifier of Unit nee Unit nee nee 0.100 0.09701 mg/Kg nee 0.100 0.09986 mg/Kg enzene 0.100 0.09672 mg/Kg nne & p-Xylene 0.200 0.1935 mg/Kg	e Added ne Result ne Qualifier unit ne D ne 0.100 0.09701 mg/Kg ne 0.100 0.09986 mg/Kg enzene 0.100 0.09672 mg/Kg ne & p-Xylene 0.200 0.1935 mg/Kg	e Added Result Qualifier Unit D %Rec ne 0.100 0.09701 mg/Kg 97 e 0.100 0.09986 mg/Kg 100 enzene 0.100 0.09672 mg/Kg 97 ene & p-Xylene 0.200 0.1935 mg/Kg 97	e Added ne Result Qualifier Unit Unit Unit Unit Unit Unit Unit Unit

LCS	LCS

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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Lab Sample ID: LCSD 880-1589/2-A

QC Sample Results

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Matrix: Solid

Surrogate

Analyte

Gasoline Range Organics

Analysis Batch: 1569

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1589

Prep Batch: 1546

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09714		mg/Kg		97	70 - 130	0	35
Toluene	0.100	0.09960		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130	3	35

Limits

LCSD LCSD %Recovery Qualifier

70 - 130 4-Bromofluorobenzene (Surr) 94 1,4-Difluorobenzene (Surr) 111 70 - 130

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

Client Sample ID: Method Blank Lab Sample ID: MB 880-1546/1-A Prep Type: Total/NA **Matrix: Solid**

Analysis Batch: 1499

MB MB Result Qualifier RL Unit D Dil Fac Prepared Analyzed <50.0 U 50.0 mg/Kg 04/08/21 15:43 04/08/21 23:23

(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 04/08/21 15:43 04/08/21 23:23 mg/Kg C10-C28) <50.0 U 50.0 mg/Kg 04/08/21 15:43 04/08/21 23:23 OII Range Organics (Over C28-C36) Total TPH <50.0 U 50.0 04/08/21 15:43 04/08/21 23:23 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/08/21 15:4	3 04/08/21 23:23	1
o-Terphenyl	117		70 - 130	04/08/21 15:4	3 04/08/21 23:23	1

Lab Sample ID: LCS 880-1546/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 1499 Prep Batch: 1546 LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1157 mg/Kg 116 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1077 mg/Kg 108 70 - 130

C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl 104

Lab Sample ID: LCSD 880-1546/3-A

Matrix: Solid

Analysis Batch: 1499

Prep Batch: 1546 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1152 mg/Kg 115 70 - 130

(GRO)-C6-C10

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

QC Sample Results

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

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

Lab Sample ID: LCSD 880-1546/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 1117 112 70 - 130 20 Diesel Range Organics (Over mg/Kg

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 o-Terphenyl 104 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1756/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1805 мв мв

Result Qualifier Unit Analyte RL D Prepared Analyzed Dil Fac 04/14/21 23:32 Chloride <5.00 U 5.00 mg/Kg

Lab Sample ID: LCS 880-1756/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1805

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 230.5 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-1756/3-A

Matrix: Solid

Analysis Batch: 1805

LCSD LCSD RPD Spike %Rec. Analyte Added Qualifier Result Unit %Rec Limits RPD Limit Chloride 250 254.0 mg/Kg 102 90 - 110 10 20

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

QC Association Summary

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

GC VOA

Prep Batch: 1511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1511/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-499-1	CH03	Total/NA	Solid	8021B	1589
890-499-2	CH03 A	Total/NA	Solid	8021B	1589
MB 880-1511/5-A	Method Blank	Total/NA	Solid	8021B	1511
MB 880-1589/5-A	Method Blank	Total/NA	Solid	8021B	1589
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	8021B	1589
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1589

Prep Batch: 1589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-499-1	CH03	Total/NA	Solid	5035	
890-499-2	CH03 A	Total/NA	Solid	5035	
MB 880-1589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-499-1	CH03	Total/NA	Solid	8015B NM	1546
890-499-2	CH03 A	Total/NA	Solid	8015B NM	1546
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015B NM	1546
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1546
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1546

Prep Batch: 1546

Lab Sample ID 890-499-1	Client Sample ID CH03	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-499-2	CH03 A	Total/NA	Solid	8015NM Prep	
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-499-1	CH03	Soluble	Solid	DI Leach	
890-499-2	CH03 A	Soluble	Solid	DI Leach	
MB 880-1756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1805

Lab Sample	ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-499-1	CH03	Soluble	Solid	300.0	1756
890-499-2	CH03 A	Soluble	Solid	300.0	1756
MB 880-175	6/1-A Method Blank	Soluble	Solid	300.0	1756

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4/15/2021

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

HPLC/IC (Continued)

Analysis Batch: 1805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	300.0	1756
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1756

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH03 Lab Sample ID: 890-499-1

Matrix: Solid

Date Collected: 04/07/21 13:00 Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1589	04/09/21 12:06	MR	XM
Total/NA	Analysis	8021B		1	1569	04/10/21 03:10	MR	XM
Total/NA	Prep	8015NM Prep			1546	04/08/21 15:43	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/09/21 03:36	AJ	XM
Soluble	Leach	DI Leach			1756	04/14/21 08:33	СН	XM
Soluble	Analysis	300.0		1	1805	04/15/21 14:23	CH	XM

Client Sample ID: CH03 A Lab Sample ID: 890-499-2

Date Collected: 04/07/21 13:20 **Matrix: Solid** Date Received: 04/07/21 17:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1589 04/09/21 12:06 MR XM Total/NA 8021B Analysis 1569 04/10/21 03:30 MR XM 1 Total/NA Prep 8015NM Prep 04/08/21 15:43 DM ΧM 1546 Total/NA 8015B NM ΧM Analysis 1 1499 04/09/21 03:57 ΑJ Soluble ΧM Leach DI Leach 1756 04/14/21 08:33 СН 1805 Soluble Analysis 300.0 1 04/15/21 14:28 CH XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-499-1

Project/Site: PLU PB 25-25-30

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

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Method Summary

Client: WSP USA Inc. Job ID: 89

Project/Site: PLU PB 25-25-30

Job ID: 890-499-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
00.0	Anions, Ion Chromatography	MCAWW	XM
035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
Ol Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-499-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-499-1	CH03	Solid	04/07/21 13:00	04/07/21 17:00	1'
890-499-2	CH03 A	Solid	04/07/21 13:20	04/07/21 17:00	2'

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	Sem Se	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro of Xenco. A minimum charge of \$76.00 will be applied to each project and a charge of \$8 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed								CH034	CH03	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	ŢŌ.	City, State ZIP:	ess:	Company Name:	Project Manager:	*		5
	M	/: (Signature)	ignature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	010 200.8 I(s) and Metal										tification	als: Yes	Yes	Yes			Travis Casey		TE012921035	PLU PB 25-25-30	(432) 704-5178	Midland, TX 79705	3300 North A St. Bldg 1, Unit 222	WSP USA Inc., Permian office	Kalei Jennings			
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	-	Received by: (Signature)	utes a valid pur assume any res a charge of \$5	8RCRA 13PPM TCLP/SPLP6								1300	1300	Time Sampled	Total Containers:		4-00-	Thermometer ID	Wet Ice: (Yes	Due Date:	Rush:	Routine	Tu	Email:					.NM (575-392-	Houston, Midland	
		re)	chase order from ponsibility for an for each sample	RCRA 13PPM Texas 11 A								21	7	Depth	3-6	2.8	7	₽	(Yes) No	Date:		ne 🗶	Turn Around	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs.NM (575-392-7550) Phoenix AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	
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Chain of Custody

Revised Date 051418 Rev. 2018.1

Date/Time

Received by: (Signature)

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	(432) 704-5178			Email: t	ravis.casey(WSD.C	ım, kal	i jenning	@wsp.cor	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@w	Deliverables: EDD		ADaPT	Other:
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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard ferms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses and expenses and shall not assume any responsibility for any losses or expenses and shall not assume any responsibility for any losses or expenses or e	ocument and relinquishi able only for the cost of	ment of sa	mples constitutes	a valid purc ime any resp	hase order from onsibility for an	client con	pany to)	enco, its affi incurred by	lates and sub the client if s	contractors. It assigned to losses are due f	order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions billy for any losses or expenses incurred by the client if such its sets are due to circumstances beyond the control properties of the control of the	nditions s control		
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Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

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Environment Testing

Deliverable Requested 1 II III IV Other (specify) Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/marix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. CH03 (890-499-1) Project Name: PLU PB 25-25-30 Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 CH03 A (890-499-2) Midland Empty Kit Relinquished by Possible Hazard Identification 132-704-5440(Tel) 1211 W Florida Ave elinquished by elinquished by Custody Seals Intact. linquished by: ample Identification - Client ID (Lab ID) rofins Xenco hipping/Receiving lient Information Yes 8 (Sub Contract Lab) Custody Seal No Project #: 89000004 Date/Time: Date/Time Due Date Requested 4/13/2021)ate/Time Primary Deliverable Rank. 2 **§**0 Phone Sample Date FAT Requested (days) 4/7/21 4/7/21 Mountain 13 20 Date Mountain Sample 13 00 (C=comp, G≃grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid E-Mail Kramer, Jessica jessica kramer@eurofinset com Lab PM Field Filtered Sample (Yes or No) Time Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks. Received by: Received by: × × Return To Client 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc BTEX × Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Date/Time: Date/Time Archive For Total Number of containers C Zn Acetate
D Nitric Acidd
E NaHSO4
F MeOH
G Ameolor
H Ascorbic Acid
los
J DI Water
K EDTA
L EDA Page: Page 1 of 1 COC No: 890-154 1 JUD C @ > Preservation Codes 390-499-1 占 Special Instructions/Note ΝŞ DOZZ Company W Hexane
V None
O AsNAC2
Na2O4S
V Na2SO3
V Na2SO3
R Na2S2O3
R Na2S2O3
R Na2S2O3
R Na2S2O3
R Na2S2O4
MCAA Ver 11/01/2020 Company V pH 4-5 other (specify)

1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

Eurofins Xenco, Carlsbad

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Chain of Custody Record

💸 eurofins

Environment Testing

State Zip[.] TX, 79701 Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. CH03 A (890-499-2) CH03 (890-499-1) Sample Identification - Client ID (Lab ID) Project Name PLU PB 25-25-30 432-704-5440(Tel) Eurofins Xenco Shipping/Receiving Possible Hazard Identification Midland mpty Kit Relinquished by Deliverable Requested | II III IV Other (specify) 1211 W Florida Ave Client Information (Sub Contract Lab) elinquished by elinquished by elinquished by: Custody Seals Intact. Yes ∆ No Custody Seal No 1.8·2 Project #: 89000004 V O # Date/Time Date/Time Primary Deliverable Rank SSOW#: TAT Requested (days). 4/13/2021 Due Date Requested Phone Sampler 4/7/21 4/7/21 Mountain 13 20 Date Mountain Sample 13 00 (C=comp, G=grab Sample Preservation Code: Туре Company Company Company O=waste/oil Matrix Solid Solid jessica kramer@eurofinset.com Kramer Jessica Ime Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Destrum To Client Disposal Bull ab Archive For Month Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks Received by Return To Client 8015MOD_NM/8016NM_S_Prep Full TPH × × × × 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc BTEX × × Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s): Method of Shipment Archive For Total Number of containers 2:400 A HCL
B NAOH
C Zin Acetate
D Nitric Acid
E NAHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L-EDA Page: Page 1 of 1 Preservation Codes 890-499-1 890-154 1 Special Instructions/Note N **≶** < ⊂ ≠οσααν⊢ ⋜ Jompany H2SO4
TSP Dodecahydrate
J Acetone
/ MCAA None AsNaO2 Na2O4S Na2SO3 Na2S2O3 Months other (specify)

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-499-1

SDG Number:

Login Number: 499 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Released to Imaging: 7/20/2021 11:33:02 AM

Login Sample Receipt Checklist

Job Number: 890-499-1

SDG Number:

Login Number: 499
List Source: Eurofins Midland
List Number: 2
List Creation: 04/08/21 03:33 PM

Creator: Copeland, Tatiana

Client: WSP USA Inc.

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-500-1

Client Project/Site: PLU PB 25-25-30

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 4/15/2021 6:40:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 7/20/2021 11:33:02 AM

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

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Certification Summary	14
Method Summary	15
Sample Summary	16
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitati

PQL Practical Quantitation Limit
PRES Presumptive

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

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Job ID: 890-500-1 Project/Site: PLU PB 25-25-30

Job ID: 890-500-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-500-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH04 (890-500-1) and CH04 A (890-500-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1589 and analytical batch 880-1569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

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

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH04 Lab Sample ID: 890-500-1

Date Collected: 04/07/21 13:40 Matrix: Solid Date Received: 04/07/21 17:00

Sample Depth: 1'

Method: 8021B - Volatile Orga	nic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 03:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			04/09/21 12:06	04/10/21 03:51	1
1,4-Difluorobenzene (Surr)	110		70 - 130			04/09/21 12:06	04/10/21 03:51	1
- Method: 8015B NM - Diesel Ra	ange 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		04/08/21 15:43	04/09/21 04:18	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/09/21 04:18	1

Surrogate	%Recovery Qualifier	Limits	Prep	ared Analyzed	Dil Fac
1-Chlorooctane	95	70 - 130	04/08/2	04/09/21 04:18	
o-Terphenyl	98	70 - 130	04/08/2	1 15:43 04/09/21 04:18	1

50.0

50.0

mg/Kg

mg/Kg

04/08/21 15:43

04/08/21 15:43

04/09/21 04:18

04/09/21 04:18

<50.0 U

<50.0 U

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		5.01	mg/Kg			04/15/21 14:33	1

Client Sample ID: CH04 A Lab Sample ID: 890-500-2 **Matrix: Solid**

Date Collected: 04/07/21 13:50 Date Received: 04/07/21 17:00

Oll Range Organics (Over C28-C36)

Sample Depth: 2'

C10-C28)

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00230		0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:12	•
Toluene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
Total BTEX	0.00230		0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			04/09/21 12:06	04/10/21 04:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/09/21 12:06	04/10/21 04:12	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Lab Sample ID: 890-500-2 Client Sample ID: CH04 A

Date Collected: 04/07/21 13:50 Matrix: Solid Date Received: 04/07/21 17:00

Sample Depth: 2'

Method: 8015B NM - Diesel Rang Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:01	1
Total TPH	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			04/08/21 15:43	04/09/21 05:01	1
o-Terphenyl	110		70 - 130			04/08/21 15:43	04/09/21 05:01	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		5.03	mg/Kg			04/15/21 14:38	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	_
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-500-1	CH04	90	110	
890-500-2	CH04 A	90	108	
LCS 880-1589/1-A	Lab Control Sample	93	114	
LCSD 880-1589/2-A	Lab Control Sample Dup	94	111	
MB 880-1511/5-A	Method Blank	103	108	
MB 880-1589/5-A	Method Blank	102	101	
Surrogate Legend				
BFB = 4-Bromofluoroben:	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lim
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-500-1	CH04	95	98	
390-500-2	CH04 A	106	110	
_CS 880-1546/2-A	Lab Control Sample	109	104	
_CSD 880-1546/3-A	Lab Control Sample Dup	106	104	
MB 880-1546/1-A	Method Blank	109	117	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1511/5-A

Analysis Batch: 1569

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1511

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/08/21 11:09	04/09/21 12:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/08/21 11:09	04/09/21 12:19	1

Lab Sample ID: MB 880-1589/5-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1589

	MB	MB
nalyto	Pocult	Oua

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/09/21 12:06	04/10/21 02:06	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70 - 130	04/09/21 12:06	04/10/21 02:06	1
1,4-Difluorobenzene (Surr)	101	70 - 130	04/09/21 12:06	04/10/21 02:06	1

Lab Sample ID: LCS 880-1589/1-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 1589

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	
Toluene	0.100	0.09986		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.09672		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1935		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09580		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-1589/2-A

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Matrix: Solid

Analysis Batch: 1569

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1589

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09714		mg/Kg		97	70 - 130	0	35
Toluene	0.100	0.09960		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-1546/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Total TPH	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/08/21 15:4	3 04/08/21 23:23	1
o-Terphenyl	117		70 - 130	04/08/21 15:4	3 04/08/21 23:23	1

Lab Sample ID: LCS 880-1546/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 1499 Prep Batch: 1546

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1157		mg/Kg		116	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1077		mg/Kg		108	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: LCSD 880-1546/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 1152 mg/Kg 115 70 - 130

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

4/15/2021

QC Sample Results

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

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

Lab Sample ID: LCSD 880-1546/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 1117 112 70 - 130 20 Diesel Range Organics (Over mg/Kg

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 o-Terphenyl 104 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1756/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 1805

мв мв Result Qualifier Unit Analyte RL D Prepared Analyzed Dil Fac 04/14/21 23:32 Chloride <5.00 U 5.00 mg/Kg

Lab Sample ID: LCS 880-1756/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1805

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 230.5 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-1756/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid **Analysis Batch: 1805**

LCSD LCSD RPD Spike %Rec. Analyte Added Qualifier Result Unit %Rec Limits RPD Limit Chloride 250 254.0 mg/Kg 102 90 - 110 10 20

Eurofins Xenco, Carlsbad

Prep Type: Soluble

QC Association Summary

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

GC VOA

Prep Batch: 1511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1511/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-500-1	CH04	Total/NA	Solid	8021B	1589
890-500-2	CH04 A	Total/NA	Solid	8021B	1589
MB 880-1511/5-A	Method Blank	Total/NA	Solid	8021B	1511
MB 880-1589/5-A	Method Blank	Total/NA	Solid	8021B	1589
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	8021B	1589
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1589

Prep Batch: 1589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-500-1	CH04	Total/NA	Solid	5035	<u> </u>
890-500-2	CH04 A	Total/NA	Solid	5035	
MB 880-1589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-500-1	CH04	Total/NA	Solid	8015B NM	1546
890-500-2	CH04 A	Total/NA	Solid	8015B NM	1546
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015B NM	1546
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1546
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1546

Prep Batch: 1546

Lab Sample ID 890-500-1	Client Sample ID CH04	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-500-2	CH04 A	Total/NA	Solid	8015NM Prep	
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-500-1	CH04	Soluble	Solid	DI Leach	
890-500-2	CH04 A	Soluble	Solid	DI Leach	
MB 880-1756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-500-1	CH04	Soluble	Solid	300.0	1756
890-500-2	CH04 A	Soluble	Solid	300.0	1756
MB 880-1756/1-A	Method Blank	Soluble	Solid	300.0	1756

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

HPLC/IC (Continued)

Analysis Batch: 1805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	300.0	1756
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1756

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH04

Lab Sample ID: 890-500-1 Date Collected: 04/07/21 13:40

Matrix: Solid

Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1589	04/09/21 12:06	MR	XM
Total/NA	Analysis	8021B		1	1569	04/10/21 03:51	MR	XM
Total/NA	Prep	8015NM Prep			1546	04/08/21 15:43	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/09/21 04:18	AJ	XM
Soluble	Leach	DI Leach			1756	04/14/21 08:33	CH	XM
Soluble	Analysis	300.0		1	1805	04/15/21 14:33	CH	XM

Client Sample ID: CH04 A Lab Sample ID: 890-500-2

Date Collected: 04/07/21 13:50 **Matrix: Solid** Date Received: 04/07/21 17:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1589 04/09/21 12:06 MR XM Total/NA 8021B 1569 04/10/21 04:12 MR XM Analysis 1 Total/NA Prep 8015NM Prep 04/08/21 15:43 DM ΧM 1546 Total/NA 8015B NM ΧM Analysis 1 1499 04/09/21 05:01 ΑJ Soluble ΧM Leach DI Leach 1756 04/14/21 08:33 СН 1805 Soluble Analysis 300.0 1 04/15/21 14:38 CH XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-500-1

Project/Site: PLU PB 25-25-30

Laboratory: Eurofins Xenco, Midland

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

Authority	P	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-20-21	06-30-21
The following analytes a the agency does not off	• ′	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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Method Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-500-1

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-500-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-500-1	CH04	Solid	04/07/21 13:40	04/07/21 17:00	1'
890-500-2	CH04 A	Solid	04/07/21 13:50	04/07/21 17:00	2'

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

Chain of Custody

Revised Date 051418 Rev. 2018.1

		Hobbs, NA	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	AZ (480-35£	-0900) Atl	anta GA (770-449-8800	Tampa,FL (313-620-2000)		www.xenco.com		Page(of \
Project Manager:	Kalei Jennings		Bill to: (if different)		Kyle LittreⅡ						Work Or	Work Order Comments	ents	
Company Name:	WSP USA Inc., Permian office	office	Company Name:		XTO Energy				Progra	Program: UST/PST	₽RP	Brownfields		☐ punjud ☐
	3300 North A St. Bldg 1, Unit 222	Unit 222	Address:	310	3104 E Greene St	e St.			Sta	State of Project:	NM			
1 2 Z P :	Midland, TX 79705		City, State ZIP:		Carlsbad, NM				Report	Reporting:Level II	evel III	□ST/UST	☐ RR] svel IV
	(432) 704-5178		Email: travis.casev@wsp.com, kalei.jennings@wsp.com, dan.moir@w	@wsp.con	ր, kalei.ie	ennings(wsp.com,	dan moir@		Deliverables: EDD		ADaPT	Other:	
Project Name:	PLU PB 25-25-30		Turn Around				AN	ANALYSIS REQUEST	QUEST				Work Order Notes	r Notes
Project Number:	TE012921035		Routine &									T. 1. 4. #	# 1	1. N. #
o.O. Number:			Rush:				_					1,	1. June 1.	227087
Sampler's Name:	Travis Casey		Due Date:			_						サン・	1000000011	10
SAMPLE RECEIPT	Temp Blank:	CYES No	Wet Ice: Yes No			-						-	13717100	
Temperature (°C):		Ther	Thermometer ID	sjeu		- (890-500 Ch	890-500 Chain of Custody					
Received Intact:	C Yes No	SNR	CO	istn	(1	0.00	· .			-				
Cooler Custody Seals:	: Yes No N/A	Correctic	Correction Factor: 3, 6			£ ∀c						TAT	starts the day	TAT starts the day recevied by the
Sample Custody Seals:	s: Yes No N/A	Total Co	Total Containers: ろ・く			43) e			_	_			lab, if received by 4:30pm	by 4:30pm
Sample Identification	ification Matrix	Date Sampled S	Time Depth	edmuN 	a) X3T 8	Chloride							Sample Comments	mments
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						1	1							
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Total 200.7 / 6010	110 200.8 / 6020:	8RCRA	RA 13PPM Texas 11	₹	Sb As Ba	Be B	Cd Ca Cr Co	Co Cu Fe	Cu Fe Pb Mg Mn Mo Ni K	II	Se Ag SiO2	2 Na Sr Ti	I Sn U V	Zn
Circle Method(Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8R	8RCRA Sb	Sb As Ba	Be Cd	Cr Co Cu	Cd Cr Co Cu Pb Mn Mo Ni	o Ni Se A	Se Ag Ti U		1631 / 24	1631 / 245.1 / 7470 / 7471	/ 7471 : Hg
Votice: Signature of this c of service. Xenco will be i of Xenco. A minimum cha	votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions beyond the control samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control samples are due to circumstances beyond the control sample and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	samples constituters and shall not assuach project and a	s a valid purchase order fron ume any responsibility for au harge of \$5 for each sample	n client compi ny losses or e submitted to	iny to Xenc spenses inc senco, but	o, its affilia urred by the	tes and subco te client if suci d. These term	ntractors. It as: h losses are du s will be enforce	igns standard to circumstan ad unless previ	rfrom client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control mpis submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	tions			
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Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

🔆 eurofins

Environment Testing America

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler Phone			Lab PM Krame E-Mail	Lab PM Kramer, Jessica E-Mail	sica						တ္ဆ	Carrier Tracking No(s).	Origin Pack	ig No	s).			စ္တက္	COC No: 890-154 1 Page:	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	ations	Requir	a (Se	E note	, ~	Texas								ه د	Job #: 890-500-1	
Address. 1211 W Florida Ave ,	Due Date Requested ^a 4/13/2021	r.				İ			Anal	<i>7</i> 1	<u>۾</u>	Requested	š	ا ۵	I				-	on Code	Š
ity Midland	TAT Requested (days)	/s)							}	<u> </u>	- ;		− }	– '	\dashv	\dashv	\dashv	1 1000	00 >	HCL NaOH	M Hexane N None
monania monania monania monania TX 79701							***************************************												mОО	Zn Acetate Nitric Acid NaHSO4	O AsNaO2 P Na2O4S Q Na2SO3
² hone 432-704-5440(Tel)	PO#)	TPH	ie											~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	T O T	MeOH Amchlor	R - Na2S2O3 S H2SO4
<u>Email</u>	WO#					p Full	Chlori											W. 400	c — -	ice - DI Water	U Acetone V-MCAA
Project Name: PLU PB 25-25-30	Project #: 89000004				otologi i domino	_S_Pr		EX	· · · · · · · · · · · · · · · · · · ·											EDTA	W pH 4-5 Z other (specify)
Site:	SSOW#:				200000000000000	016NM		Calc B											SudSehullild	Other:	
		Sample (Sample Type (C=comp.	Matrix (w=water S=solid,	ld Filtered form MS/M	5MOD_NM/8	_ORGFM_28	1B/6035FP											al Number		
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CH04 (890-500-1)	4/7/21	13 40 Mountain		Solid		×	×	×										er regina	-		
CH04 A (890-500-2)	4/7/21	13 50 Mountain		Solid		×	×	×				-						proy s	æ,		
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vote: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories, maintain accreditation in the State of Origin listed above for analysis/lessimatrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instru	blaces the ownership being analyzed the sa	of method, anal	lyte & accredit shipped back	ation complian to the Eurofins	ce upor s Xenco	LLC Is	borato	act lat	orato	ries. 1struct	This si	ample /ill be	shipr provi	ient is	forwa	ırded	unde to a	r chai	n-of- itatio	-custody If the labor	s. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently tructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco
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Unconfirmed						Return To Client	Return To Client	To C	lient	σ	و ا	D_{io}	Disposal By Lab	i By	Lab	pres		ة ٰٰٰ	chi.	Disposal By Lab Archive For	Months
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Custody Seals Intact. Custody Seal No						Coole	Cooler Temperature(s) °C	peratu	re(s) °		and Other Remarks	Ren	arks	l	-				- 1		

Ver: 11/01/2020

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

Eurofins Xenco, Carlsbad

Chain of Custody Record

💸 eurofins

Environment Testing America

Ver: 11/01/2020							-					1
			emarks.	Cooler Temperature(s) °C and Other Remarks	perature(s) °	oder Tem	δ					Custody Seals Intact Custody Seal No
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		Tan and										
	A street of smills											
		373										
					×	×	×	Solid		13 50 Mountain	4/7/21	CH04 A (890-500-2)
	7990	4			×	×	×	Solid		13 40 Mountain	4/7/21	CH04 (890-500-1)
		X					\hat{X}	າກ Code; 🛚 🗶	Preservation Code:			
Special Instructions/Note:	Special Inst	Total Numbel			8021B/6036FP	300_ORGFM_2	Perform MS/II	Matrix (W=water S=solid, C=waste/oli, C=waste/oli, C=waste/oli, C=waste/oli, C=waste/oli)	Sample Type (C=comp, G=grab)	Sample Time	Sample Date	Sample Identification - Client ID (Lab ID)
	Other:	of col			Calc B	8D/DI_	ASD (Y	Samo			SSOW#	Site:
Z other (specify)	L EDA	ntaine			TEX	LEACH	es or	le (Ye			Project #: 89000004	Project Name. PLU PB 25-25-30
U Acetone V MCAA	Ice DI Water	rs					No)	s or N			WO#	
S H2SO4 T TSP Dodecahydrate	- Amchlor Ascorbic Acid							o)			PO #:	Phone: 432-704-5440(Tel)
P Na2O4S Q Na2SO3												State, Zlp TX, 79701
N None O AsNaO2	NaOH Zn Acetate						7.			ys).	IA I Requested (days).	
vs M. Hexane	Preservation Codes A HCL M		Requested	Analysis Req	Ana					ě	Due Date Requested 4/13/2021	Address. 1211 W Florida Ave
	Job #: 890-500-1			(See note) NELAP - Texas		ns Requir Louisiar	Accreditations Required NELAP - Louisiana,	Z &				Company Eurofins Xenco
	Page: Page 1 of 1		New Mexico		inset com	@eurofi	essica kramer@eurofinse	jessica			7.00	g/Receiving
	890-154 1		Carrier Tracking No(s)			g	Kramer Jessica	Kramer			Vampler	ormation (Sub Contract Lab)
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-500-1

SDG Number:

4/15/2021

Login Number: 500 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

4

Page 21 of 22

Released to Imaging: 7/20/2021 11:33:02 AM

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-500-1

SDG Number:

Login Number: 500 List Source: Eurofins Midland
List Number: 2 List Creation: 04/08/21 03:34 PM

Creator: Copeland, Tatiana

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-501-1

Client Project/Site: PLU PB 25-25-30

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 4/19/2021 7:03:20 PM

Jessica Kramer, Project Manager (432)704-5440

iessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/20/2021 11:33:02 AM

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

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

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Client: WSP USA Inc.

Laboratory Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Table of Contents

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Sample Summary	17
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent 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

Toxicity Equivalent Factor (Dioxin) TFF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Job ID: 890-501-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-501-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: CH05 (890-501-1) and CH05 A (890-501-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1589 and analytical batch 880-1569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH05 Lab Sample ID: 890-501-1

Date Collected: 04/07/21 14:10

Date Received: 04/07/21 17:00

Matrix: Solid

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/09/21 12:06	04/10/21 04:32	
Toluene	<0.00201	U	0.00201	mg/Kg		04/09/21 12:06	04/10/21 04:32	•
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/09/21 12:06	04/10/21 04:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/09/21 12:06	04/10/21 04:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/09/21 12:06	04/10/21 04:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/09/21 12:06	04/10/21 04:32	1
Total BTEX	<0.00201	U	0.00201	mg/Kg		04/09/21 12:06	04/10/21 04:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			04/09/21 12:06	04/10/21 04:32	1
1,4-Difluorobenzene (Surr)	112		70 - 130			04/09/21 12:06	04/10/21 04:32	1
Method: 8015B NM - Diesel Rang	, ,	, , ,	D.		_			511.5
		5 0) (00)						
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	, ,	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 04/08/21 15:43	Analyzed 04/09/21 05:22	
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.8	mg/Kg	<u>D</u>	04/08/21 15:43	04/09/21 05:22	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.8	mg/Kg	<u>D</u>	04/08/21 15:43	04/09/21 05:22	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U	49.8	mg/Kg	<u>D</u>	04/08/21 15:43 04/08/21 15:43	04/09/21 05:22 04/09/21 05:22	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 15:43 04/08/21 15:43 04/08/21 15:43	04/09/21 05:22 04/09/21 05:22 04/09/21 05:22	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 04/08/21 15:43	04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 04/09/21 05:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49	Qualifier U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u> </u>	04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 Prepared	04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 Prepared 04/08/21 15:43	04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 Analyzed 04/09/21 05:22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 04/08/21 15:43 Prepared 04/08/21 15:43	04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 04/09/21 05:22 Analyzed 04/09/21 05:22	Dil Fac

Client Sample ID: CH05 A

Date Collected: 04/07/21 14:30

Lab Sample ID: 890-501-2

Matrix: Solid

Date Received: 04/07/21 17:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:53	
Toluene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
Total BTEX	<0.00202	U	0.00202	mg/Kg		04/09/21 12:06	04/10/21 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			04/09/21 12:06	04/10/21 04:53	1
1,4-Difluorobenzene (Surr)	112		70 - 130			04/09/21 12:06	04/10/21 04:53	1

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Lab Sample ID: 890-501-2 Client Sample ID: CH05 A

Matrix: Solid

Date Collected: 04/07/21 14:30 Date Received: 04/07/21 17:00

Sample Depth: 2'

Method: 8015B NM - Diesel Rang Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg		04/08/21 15:43	04/09/21 05:43	1
(GRO)-C6-C10	440.0	J	40.0	mg/rtg		04/00/21 10:40	04/05/21 00:40	
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:43	1
Total TPH	<49.9	U	49.9	mg/Kg		04/08/21 15:43	04/09/21 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			04/08/21 15:43	04/09/21 05:43	1
o-Terphenyl	100		70 - 130			04/08/21 15:43	04/09/21 05:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		4.98	mg/Kg			04/19/21 12:17	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-501-1	CH05	93	112	
90-501-2	CH05 A	95	112	
.CS 880-1589/1-A	Lab Control Sample	93	114	
CSD 880-1589/2-A	Lab Control Sample Dup	94	111	
/IB 880-1511/5-A	Method Blank	103	108	
/IB 880-1589/5-A	Method Blank	102	101	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-501-1	CH05	95	95
890-501-2	CH05 A	96	100
LCS 880-1546/2-A	Lab Control Sample	109	104
LCSD 880-1546/3-A	Lab Control Sample Dup	106	104
MB 880-1546/1-A	Method Blank	109	117

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1511/5-A

Analysis Batch: 1569

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1511

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	70 - 130	04/08/21 11:09	04/09/21 12:19	1
1,4-Difluorobenzene (Surr)	108	70 - 130	04/08/21 11:09	04/09/21 12:19	1

Lab Sample ID: MB 880-1589/5-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Method Blank

04/10/21 02:06

Prep Type: Total/NA

Prep Batch: 1589

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1	
Toluene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/09/21 12:06	04/10/21 02:06	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/09/21 12:06	04/10/21 02:06	1	
Xvlenes. Total	< 0.00400	U	0.00400	ma/Ka		04/09/21 12:06	04/10/21 02:06	1	

0.00200

mg/Kg

MB MB

<0.00200 U

Surrogate	%Recovery (Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70	<u>- 130</u>	04/09/21 12:06	04/10/21 02:06	1
1 4-Difluorobenzene (Surr)	101	70	₋ 130	04/09/21 12:06	04/10/21 02:06	1

Lab Sample ID: LCS 880-1589/1-A

Matrix: Solid

Total BTEX

Analysis Batch: 1569

Client Sample ID: Lab Control Sample

04/09/21 12:06

Prep Type: Total/NA

Prep Batch: 1589

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	
Toluene	0.100	0.09986		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.09672		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1935		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09580		mg/Kg		96	70 - 130	

Surrogate	%Recovery Qเ	ıalifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-1589/2-A

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Matrix: Solid

Analysis Batch: 1569

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 1589

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09714		mg/Kg		97	70 - 130	0	35
Toluene	0.100	0.09960		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130	3	35

LCSD LCSD

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

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

Lab Sample ID: MB 880-1546/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1
Total TPH	<50.0	U	50.0	mg/Kg		04/08/21 15:43	04/08/21 23:23	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/08/21 15:43	04/08/21 23:23	1
o-Terphenyl	117		70 - 130	04/08/21 15:43	04/08/21 23:23	1

Lab Sample ID: LCS 880-1546/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 1499** Prep Batch: 1546

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1157		mg/Kg		116	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1077		mg/Kg		108	70 - 130	
C10-C28)								

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	104		70 - 130

100 100

Lab Sample ID: LCSD 880-1546/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Prep Batch: 1546 **Analysis Batch: 1499**

	Зріке	LCSD	LCSD				%Rec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1152		mg/Kg	_	115	70 - 130	0	20	

(GRO)-C6-C10

Lab Sample ID: LCSD 880-1546/3-A

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1546

Analysis Batch: 1499 Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 1117 mg/Kg 112 70 - 130 20 Diesel Range Organics (Over

C10-C28)

Matrix: Solid

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 130 o-Terphenyl 104 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1756/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 1805

мв мв Result Qualifier Analyte RL Unit Analyzed Dil Fac D Prepared Chloride <5.00 U 5.00 mg/Kg 04/14/21 23:32

Lab Sample ID: LCS 880-1756/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1805

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 230.5 Chloride 250 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-1756/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1805

LCSD LCSD RPD Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Limit Chloride 250 254.0 mg/Kg 102 90 - 110

Lab Sample ID: MB 880-1778/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1957

MB MB Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 04/18/21 20:42 mg/Kg

Lab Sample ID: LCS 880-1778/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1957

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 250 Chloride 257.7 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-1778/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 1957

LCSD LCSD Spike %Rec. RPD %Rec Limit Analyte Added Result Qualifier RPD Unit D Limits Chloride 250 247.2 99 90 - 110 20 mg/Kg

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Prep Type: Soluble

Released to Imaging: 7/20/2021 11:33:02 AM

QC Sample Results

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Prep Type: Soluble

% Poc

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-501-2 MS Client Sample ID: CH05 A

Matrix: Solid Analysis Batch: 1957

Sample Sample Snika ме ме

-1		Sample	Sample	Spike	IVIO	IVIO				MREC.		
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Chloride	30.3		249	284.0		mg/Kg		102	90 - 110		

Lab Sample ID: 890-501-2 MSD Client Sample ID: CH05 A

Matrix: Solid Prep Type: Soluble

Analysis Batch: 1957

Sample Sample Spike MSD MSD %Rec. RPD RPD Analyte Result Qualifier Added Result Qualifier Limits Limit Unit D %Rec 249 Chloride 30.3 289.1 mg/Kg 104 90 - 110 2

QC Association Summary

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

GC VOA

Prep Batch: 1511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1511/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-1	CH05	Total/NA	Solid	8021B	1589
890-501-2	CH05 A	Total/NA	Solid	8021B	1589
MB 880-1511/5-A	Method Blank	Total/NA	Solid	8021B	1511
MB 880-1589/5-A	Method Blank	Total/NA	Solid	8021B	1589
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	8021B	1589
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1589

Prep Batch: 1589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-1	CH05	Total/NA	Solid	5035	<u> </u>
890-501-2	CH05 A	Total/NA	Solid	5035	
MB 880-1589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 1499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-1	CH05	Total/NA	Solid	8015B NM	1546
890-501-2	CH05 A	Total/NA	Solid	8015B NM	1546
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015B NM	1546
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1546
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1546

Prep Batch: 1546

Lab Sample ID 890-501-1	Client Sample ID CH05	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-501-2	CH05 A	Total/NA	Solid	8015NM Prep	
MB 880-1546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-1	CH05	Soluble	Solid	DI Leach	
MB 880-1756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 1778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-2	CH05 A	Soluble	Solid	DI Leach	
MB 880-1778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

4/19/2021

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

HPLC/IC (Continued)

Leach Batch: 1778 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-501-2 MS	CH05 A	Soluble	Solid	DI Leach	
Į	890-501-2 MSD	CH05 A	Soluble	Solid	DI Leach	

Analysis Batch: 1805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-1	CH05	Soluble	Solid	300.0	1756
MB 880-1756/1-A	Method Blank	Soluble	Solid	300.0	1756
LCS 880-1756/2-A	Lab Control Sample	Soluble	Solid	300.0	1756
LCSD 880-1756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1756

Analysis Batch: 1957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-501-2	CH05 A	Soluble	Solid	300.0	1778
MB 880-1778/1-A	Method Blank	Soluble	Solid	300.0	1778
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	300.0	1778
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1778
890-501-2 MS	CH05 A	Soluble	Solid	300.0	1778
890-501-2 MSD	CH05 A	Soluble	Solid	300.0	1778

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Client Sample ID: CH05 Lab Sample ID: 890-501-1

Matrix: Solid

Date Collected: 04/07/21 14:10 Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1589	04/09/21 12:06	MR	XM
Total/NA	Analysis	8021B		1	1569	04/10/21 04:32	MR	XM
Total/NA	Prep	8015NM Prep			1546	04/08/21 15:43	DM	XM
Total/NA	Analysis	8015B NM		1	1499	04/09/21 05:22	AJ	XM
Soluble	Leach	DI Leach			1756	04/14/21 08:33	CH	XM
Soluble	Analysis	300.0		1	1805	04/15/21 14:43	CH	XM

Client Sample ID: CH05 A Lab Sample ID: 890-501-2

Date Collected: 04/07/21 14:30 **Matrix: Solid** Date Received: 04/07/21 17:00

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Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1589 04/09/21 12:06 MR XM Total/NA 8021B Analysis 1569 04/10/21 04:53 MR XM 1 Total/NA Prep 8015NM Prep 04/08/21 15:43 DM ΧM 1546 Total/NA 8015B NM ΧM Analysis 1 1499 04/09/21 05:43 ΑJ Soluble XM Leach DI Leach 1778 04/14/21 10:22 SC Soluble Analysis 300.0 1957 04/19/21 12:17 XM

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-501-1

Project/Site: PLU PB 25-25-30

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte		
8015B NM	8015NM Prep	Solid	Total TPH		
8021B	5035	Solid	Total BTEX		

Eurofins Xenco, Carlsbad

Method Summary

Client: WSP USA Inc. Job ID:

Project/Site: PLU PB 25-25-30

Job ID: 890-501-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
00.0	Anions, Ion Chromatography	MCAWW	XM
035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
I Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-501-1	CH05	Solid	04/07/21 14:10	04/07/21 17:00	1'
890-501-2	CH05 A	Solid	04/07/21 14:30	04/07/21 17:00	2'

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	4	4.1.71 1480		Chap (The Sea
re) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Tim	Received by: (Signature)	}	Relinquished by: (Signature)
	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	losses or expenses incurred ubmitted to Xenco, but not and	Il not assume any responsibility for any ct and a charge of \$5 for each sample s	. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losser. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	of service. Xenco will be li
tandard terms and conditions	Signature of the deserged and reinvulstinger or samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	cilent company to Xenco, its a	onstitutes a valid purchase order from	and relinguishment of samples o	Notice: Signature of this de
Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg	B Cd Ca Cr Co Cu Fe Pb M Cd Cr Co Cu Pb Mn Mo Ni t	Sb As Ba Be Sb As Ba Be	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	otal 200.7 6010 200.8 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
		-			
		1			
		7			
		7 9 9	1480 2'		CH05.4
		- 2 7 1	21 1410 1	5 47	CHOS
Sample Comments		Numb TPH (E BTEX	ed Sampled Depth	Matrix Sa	Sample Identification
lab, if received by 4.30/mil		PA 8	Total Containers: 3 - 10	Yes (No	Sample Custody Seals:
TAT starts the day received by the		8021	rection Factor:	Yes (No) N/A	Cooler Custody Seals:
n of Custody	890-501 Chain of Custody	1)	ECC-MIN) Yes) No	Received Intact:
			Thermometer ID)	Temperature (°C):
		s	No Wet Ice Yes No	PT Temp Blank: Yes No	SAMPLE RECEIPT
11327151001			Due Date:	Travis Casey	Sampler's Name: T
CC#			Rush:		P.O. Number:
1. N. + 1. 25 7887			Routine /	14012921035	Project Number:
	ANALYSIS REQUEST		Turn Around	PLU PB 25-25-30	Project Name:
Deliverables: EDD ADaPT Other:	moir@w	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan.	Email: travis.casey@	(432) 704-5178	
Llevel III L'ST/UST LR	P	Carlsbad, NM	City, State ZIP:	Midland, TX 79705	le ZIP:
]		3104 E Greene St.		3300 North A St. Bldg 1, Unit 222	
	70	ie: XTO Energy	Company Name	WSP USA Inc., Permian office	
Work Order Comments		t) Kyle Littrell	Bill to: (if different)	Kalei Jennings	Project Manager:
0-2000) www.xenco.com Pageof	A (770-449-8800) Tampa,FL (813-620-2000)	Z (480-355-0900) Atlanta,G	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tami		(
_	3 San Antonio, FX (210) 509-5354 443 Lubbock,TX (806)794-1296	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)7	Houston,TX (281) 240-420 Midland,TX (432-704-54	BORATORIES	CAB
Work Order No:		Chain of Custody			3

Carlsbad NM 88220

1089 N Canal St.

Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing America

State, Zip. TX, 79701 Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. CH05 A (890-501-2) Project Name[.] PLU PB 25-25-30 Phone. 575-988-3199 Fax: 575-988-3199 CH05 (890-501-1) Sample Identification - Client ID (Lab ID) Shipping/Receiving 432-704-5440(Tel) Client Information Possible Hazard Identification 1211 W Florida Ave Deliverable Requested | II | II IV Other (specify) urofins Xenco elinquished by elinquished by mpty Kit Relinquished by elinquished by: ent Contact: Custody Seals Intact Yes ⊳ No De l (Sub Contract Lab) Custody Seal No Project #: 89000004 Sampler Š Due Date Requested 4/13/2021 Phone Date/Time: SSOW# TAT Requested (days) Primary Deliverable Rank 2 Sample Date 4/7/21 4/7/21 Mountain 14 30 Date Mountain Sample 14 10 (C=comp, Sample Type Preservation Code: Company Company Company Matrix (W=water Solid Solid E-Mail Kramer Jessica Lab PM jessica kramer@eurofinset.com Field Filtered Sample (Yes or No) Time NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH Received by Received by × × Received by: Cooler Temperature(s) °C and Other Remarks. Return To Client × × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc BTEX × Analysis Requested Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s): Method of Shipment Date/Time Jate/Ime Archive For Total Number of containers B NaOH
C Zn Acetate
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G - Amchlor
H Ascorbic Acid I - Ice J DI Water K - EDTA L EDA COC No: 890-154 1 Preservation Codes Page 1 of 1 890-501-1 Special Instructions/Note M Hexane
N - None
O AsNaO2
P Na2O4S
Q - Na2SO3
Q - Na2SO3
S R Na2SQ3
S R Na2SQ0
S T2SO4
T TSP Dodecahydrate Company Ver: 11/01/2020 Company Company V pH 4-5 other (specify) Acetone MCAA Months

Carlsbad NM 88220

1089 N Canal St.

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

Eurofins Xenco, Carlsbad

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Chain of Custody Record

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eurofins :

Environment Testing

State Zip TX, 79701 Project Name: PLU PB 25-25-30 CH05 (890-501-1) Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. CH05 A (890-501-2) Sample Identification - Client ID (Lab ID 1211 W Florida Ave Empty Kit Relinquished by Deliverable Requested I II III IV Other (specify) Possible Hazard Identification Eurofins Xenco Client Information 132-704-5440(Tel) Midland hipping/Receiving elinquished by: elinquished by: Custody Seals Intact: linquished by ∆ Yes ∆ No (Sub Contract Lab) Custody Seal No Phone WO# Due Date Requested 4/13/2021 Samplei Primary Deliverable Rank. 89000004 Project #: TAT Requested (days). Date/Time Date/Time Sample Date 4/7/21 4/7/21 Date Mountain 14 30 Mountain Sample 14 10 (C=comp G=grab) Sample Preservation Code: Type Company Company Company 0=waste/oli (₩=water Matrix Solid Solid jessica kramer@eurofinset com Kramer Jessica Accreditations Required (See note)
NELAP - Louisiana, NELAP - Texas Field Filtered Sample (Yes or No) Time Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by 8015MOD_NM/8016NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks. × × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6035FP_Calc BTEX × × Analysis Requested State of Origin

New Mexico Carrier Tracking No(s) Method of Shipment Total Number of containers J-DI Water K EDTA L EDA G Amchlor H Ascorbic Acid Page: Page 1 of 1 COC No: 890-154 1 C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor 5.00 NJ Preservation Codes 890-501-1 NaOH 된 Special Instructions/Note: U Acetone
V - MCAA
W pH 4-5
Z - other (specify) S Z οz Company Company Company Hexane None AsNaO2 TSP Dodecahydrate Acetone H2SO4 Na2O4S Na2SO3 Na2S2O3

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-501-1

SDG Number:

Login Number: 501 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Eurofins Carlsbad

<6mm (1/4").

Login Sample Receipt Checklist

Job Number: 890-501-1

SDG Number:

Login Number: 501 List Source: Eurofins Midland
List Number: 2 List Creation: 04/08/21 03:35 PM

Creator: Copeland, Tatiana

Client: WSP USA Inc.

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

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Eurofins Carlsbad

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-502-1

Laboratory Sample Delivery Group: TE012921035

Client Project/Site: PLU PB 25-25-30

Revision: 1

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 4/22/2021 12:55:06 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 7/20/2021 11:33:02 AM

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

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

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Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Laboratory Job ID: 890-502-1

SDG: TE012921035

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-502-1 Project/Site: PLU PB 25-25-30

SDG: TE012921035

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TFF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-502-1

SDG: TE012921035

Job ID: 890-502-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-502-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/19/2021. The report (revision 1) is being revised due to: Per client request, re running samples 001 & 002 for TPH and Chloride.

The samples were received on 4/7/2021 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

Receipt Exceptions

Per client request, re running samples 001 & 002 for TPH and Chloride

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-1589 and analytical batch 880-1569 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

General Chemistry

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

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

VOA Prep

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

Client: WSP USA Inc. Job ID: 890-502-1 Project/Site: PLU PB 25-25-30 SDG: TE012921035

Client Sample ID: CH01 Lab Sample ID: 890-502-1

Date Collected: 04/07/21 11:25 Matrix: Solid Date Received: 04/07/21 17:00

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			04/09/21 12:06	04/10/21 06:58	1
1,4-Difluorobenzene (Surr)	110		70 - 130			04/09/21 12:06	04/10/21 06:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/20/21 13:48	04/21/21 08:45	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/20/21 13:48	04/21/21 08:45	1	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/20/21 13:48	04/21/21 08:45	1	
Total TPH	<49.9	U	49.9	mg/Kg		04/20/21 13:48	04/21/21 08:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	122		70 - 130			04/20/21 13:48	04/21/21 08:45	1	
o-Terphenyl	124		70 - 130			04/20/21 13:48	04/21/21 08:45	1	

Method: 300.0 - Anions, Ion Cl	nromatography - So	luble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4	5.04	mg/Kg			04/18/21 22:18	1

Lab Sample ID: 890-502-2 Client Sample ID: CH01 A Date Collected: 04/07/21 11:40 Matrix: Solid

Date Received: 04/07/21 17:00

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
Total BTEX	<0.00198	U	0.00198	mg/Kg		04/09/21 12:06	04/10/21 07:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/09/21 12:06	04/10/21 07:19	1
1,4-Difluorobenzene (Surr)	116		70 - 130			04/09/21 12:06	04/10/21 07:19	1

Matrix: Solid

Lab Sample ID: 890-502-2

Analyzed

04/21/21 11:15

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-502-1

 Project/Site: PLU PB 25-25-30
 SDG: TE012921035

Client Sample ID: CH01 A

Date Collected: 04/07/21 11:40 Date Received: 04/07/21 17:00

Sample Depth: - 2

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 09:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 09:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 09:06	1
Total TPH	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 09:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/20/21 13:48	04/21/21 09:06	1
o-Terphenyl	110		70 - 130			04/20/21 13:48	04/21/21 09:06	1

RL

25.0

Unit

mg/Kg

Prepared

Result Qualifier

472

5

7

9

10

11

Dil Fac

13

1/

Surrogate Summary

Job ID: 890-502-1 Client: WSP USA Inc. Project/Site: PLU PB 25-25-30 SDG: TE012921035

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			Percer	it Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-502-1	CH01	90	110	
890-502-2	CH01 A	98	116	
LCS 880-1589/1-A	Lab Control Sample	93	114	
LCSD 880-1589/2-A	Lab Control Sample Dup	94	111	
MB 880-1511/5-A	Method Blank	103	108	
MB 880-1589/5-A	Method Blank	102	101	
Surrogate Legend				
BFB = 4-Bromofluorob	penzene (Surr)			
DFBZ = 1,4-Difluorobe	enzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-502-1	CH01	122	124				
890-502-2	CH01 A	113	110				
LCS 880-2048/2-A	Lab Control Sample	123	106				
LCSD 880-2048/3-A	Lab Control Sample Dup	123	108				
MB 880-2048/1-A	Method Blank	111	111				

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-502-1 Project/Site: PLU PB 25-25-30 SDG: TE012921035

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1511/5-A

Matrix: Solid

Analysis Batch: 1569

Client	Sample	ID:	Meth	od E	3lank
	Dr	on -	Typo:	Tot	al/NL/

Prep Batch: 1511

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/08/21 11:09	04/09/21 12:19	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		04/08/21 11:09	04/09/21 12:19	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	70 - 130	04/08/21 11:09	04/09/21 12:19	1
1,4-Difluorobenzene (Surr)	108	70 - 130	04/08/21 11:09	04/09/21 12:19	1

Lab Sample ID: MB 880-1589/5-A

Matrix: Solid

Analysis Batch: 1569

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

Prep Batch: 1589

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene 0.00200 04/09/21 12:06 04/10/21 02:06 <0.00200 U mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 04/09/21 12:06 04/10/21 02:06 Ethylbenzene 04/09/21 12:06 04/10/21 02:06 <0.00200 U 0.00200 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 04/09/21 12:06 04/10/21 02:06 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 04/09/21 12:06 04/10/21 02:06 Xylenes, Total <0.00400 U 0.00400 mg/Kg 04/09/21 12:06 04/10/21 02:06

0.00200

mg/Kg

MB MB

<0.00200 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70 - 130	04/09/21 12:06	1/10/21 02:06	1
1.4-Difluorobenzene (Surr)	101	70 - 130	04/09/21 12:06 04	4/10/21 02:06	1

Lab Sample ID: LCS 880-1589/1-A

Matrix: Solid

Total BTEX

Analysis Batch: 1569

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

04/09/21 12:06 04/10/21 02:06

Prep Batch: 1589

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09701		mg/Kg		97	70 - 130	
Toluene	0.100	0.09986		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.09672		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1935		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09580		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Job ID: 890-502-1 Project/Site: PLU PB 25-25-30 SDG: TE012921035

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

Lab Sample ID: LCSD 880-1589/2-A

Matrix: Solid

Analysis Batch: 1569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 1589

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09714		mg/Kg		97	70 - 130	0	35
Toluene	0.100	0.09960		mg/Kg		100	70 - 130	0	35
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09333		mg/Kg		93	70 - 130	3	35

LCSD LCSD

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

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

Lab Sample ID: MB 880-2048/1-A

Matrix: Solid

Analysis Batch: 2044

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 2048

MR MR

		1110	1410						
Ana	alyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	soline Range Organics RO)-C6-C10	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 00:39	1
	sel Range Organics (Over 0-C28)	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 00:39	1
OII	Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 00:39	1
Tota	al TPH	<50.0	U	50.0	mg/Kg		04/20/21 13:48	04/21/21 00:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/20/21 13:48 04/21/21 00:39	1
o-Terphenyl	111		70 - 130	04/20/21 13:48 04/21/21 00:39	1

Lab Sample ID: LCS 880-2048/2-A

Matrix: Solid

Analysis Batch: 2044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 2048

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec 1000 1253 mg/Kg 125 70 - 130

Gasoline Range Organics (GRO)-C6-C10 1000 1068 70 - 130 Diesel Range Organics (Over mg/Kg 107

C10-C28)

Analyte

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenvl	106		70 - 130

Lab Sample ID: LCSD 880-2048/3-A

Matrix: Solid

Analysis Batch: 2044

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 2048 %Rec. **RPD**

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1235 mg/Kg 124 70 - 130

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-502-1 SDG: TE012921035 Project/Site: PLU PB 25-25-30

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

Lab Sample ID: LCSD 880-2048/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 2048 **Analysis Batch: 2044** LCSD LCSD **RPD** Spike %Rec. Added Result Qualifier Unit %Rec Limits RPD Limit

1065

mg/Kg

106

70 - 130

1000

Diesel Range Organics (Over C10-C28)

LCSD LCSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 123 70 - 130 o-Terphenyl 108 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1778/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 1957

MB MB Result Qualifier RL Unit Analyzed Dil Fac **Analyte** D Prepared Chloride <5.00 U 5.00 04/18/21 20:42 mg/Kg

Lab Sample ID: LCS 880-1778/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1957

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 257.7 103 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-1778/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 1957

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 247.2 mg/Kg 99 90 - 110

Lab Sample ID: MB 880-2055/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 2094

MB MB Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Chloride <5.00 Ū 5.00 mg/Kg 04/21/21 08:58

Lab Sample ID: LCS 880-2055/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 2094

LCS LCS Spike %Rec. Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 271.5 109 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-2055/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 2094

Spike LCSD LCSD %Rec. **RPD** Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 265.2 mg/Kg 106 90 - 11020

Eurofins Xenco, Carlsbad

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-502-1

 Project/Site: PLU PB 25-25-30
 SDG: TE012921035

GC VOA

Prep Batch: 1511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1511/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 1569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-502-1	CH01	Total/NA	Solid	8021B	1589
890-502-2	CH01 A	Total/NA	Solid	8021B	1589
MB 880-1511/5-A	Method Blank	Total/NA	Solid	8021B	1511
MB 880-1589/5-A	Method Blank	Total/NA	Solid	8021B	1589
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	8021B	1589
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1589

Prep Batch: 1589

Lab Sample ID 890-502-1	Client Sample ID CH01	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-502-2	CH01 A	Total/NA	Solid	5035	
MB 880-1589/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1589/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1589/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 2044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-502-1	CH01	Total/NA	Solid	8015B NM	2048
890-502-2	CH01 A	Total/NA	Solid	8015B NM	2048
MB 880-2048/1-A	Method Blank	Total/NA	Solid	8015B NM	2048
LCS 880-2048/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2048
LCSD 880-2048/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2048

Prep Batch: 2048

Lab Sample ID 890-502-1	Client Sample ID CH01	Prep Type Total/NA	Matrix Solid	Method Prep Bate 8015NM Prep	ch
890-502-2	CH01 A	Total/NA	Solid	8015NM Prep	
MB 880-2048/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2048/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2048/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 1778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pro	ep Batch
890-502-1	CH01	Soluble	Solid	DI Leach	
MB 880-1778/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-502-1	CH01	Soluble	Solid	300.0	1778
MB 880-1778/1-A	Method Blank	Soluble	Solid	300.0	1778
LCS 880-1778/2-A	Lab Control Sample	Soluble	Solid	300.0	1778
LCSD 880-1778/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1778

Eurofins Xenco, Carlsbad

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-502-1

 Project/Site: PLU PB 25-25-30
 SDG: TE012921035

HPLC/IC

Leach Batch: 2055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-502-2	CH01 A	Soluble	Solid	DI Leach	
MB 880-2055/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2055/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2055/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-502-2	CH01 A	Soluble	Solid	300.0	2055
MB 880-2055/1-A	Method Blank	Soluble	Solid	300.0	2055
LCS 880-2055/2-A	Lab Control Sample	Soluble	Solid	300.0	2055
LCSD 880-2055/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2055

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-502-1 Project/Site: PLU PB 25-25-30 SDG: TE012921035

Client Sample ID: CH01

Date Received: 04/07/21 17:00

Lab Sample ID: 890-502-1 Date Collected: 04/07/21 11:25

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1589	04/09/21 12:06	MR	XM
Total/NA	Analysis	8021B		1	1569	04/10/21 06:58	MR	XM
Total/NA	Prep	8015NM Prep			2048	04/20/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	2044	04/21/21 08:45	AJ	XM
Soluble	Leach	DI Leach			1778	04/14/21 10:22	SC	XM
Soluble	Analysis	300.0		1	1957	04/18/21 22:18	WP	XM

Client Sample ID: CH01 A Lab Sample ID: 890-502-2 **Matrix: Solid**

Date Collected: 04/07/21 11:40

Date Received: 04/07/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1589	04/09/21 12:06	MR	XM
Total/NA	Analysis	8021B		1	1569	04/10/21 07:19	MR	XM
Total/NA	Prep	8015NM Prep			2048	04/20/21 13:48	DM	XM
Total/NA	Analysis	8015B NM		1	2044	04/21/21 09:06	AJ	XM
Soluble	Leach	DI Leach			2055	04/20/21 15:27	СН	XM
Soluble	Analysis	300.0		5	2094	04/21/21 11:15	CH	XM

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-502-1

 Project/Site: PLU PB 25-25-30
 SDG: TE012921035

Laboratory: Eurofins Xenco, Midland

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

Authority		Program	Identification Number	Expiration Date
Texas	Ī	NELAP	T104704400-20-21	06-30-21
The following analyte the agency does not		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Alialysis Mclilou			Analyto	
8015B NM	8015NM Prep	Solid	Total TPH	

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Method Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-502-1

SDG: TE012921035

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
015NM Prep	Microextraction	SW846	XM
Ol Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: PLU PB 25-25-30

Job ID: 890-502-1

SDG: TE012921035

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-502-1	CH01	Solid	04/07/21 11:25	04/07/21 17:00	- 1
890-502-2	CH01 A	Solid	04/07/21 11:40	04/07/21 17:00	- 2

				2	Chain of Custody	lietody	Work Order No	-
X			Houston,TX (28	31) 240-4200 Dal	las,TX (214) 902-030	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 l hibbook TX (806)794-1296		
		Hobb	s.NM (575-392-7550)	Phoenix, AZ (480	-355-0900) Atlanta,	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	(20-2000) <u>www.xenco.com</u>	Page of
Project Manager:	Kalei Jennings		Bill to	Bill to: (if different)	Kyle Littrell		Work Order Comments	omments
	WSP USA Inc., Permian office	mian office	Com	Company Name:	XTO Energy		Program: UST/PST PRP Brownfields	ieldsRCuperfund
	3300 North A St. Bldg 1, Unit 222	dg 1, Unit 222	Address:		3104 E Greene St		State of Project: NM	
te ZIP:	Midland, TX 79705		City,	City, State ZIP:	Carlsbad, NM		Reporting:Level II evel III ST/UST	JST RRP Bvel IV
	(432) 704-5178		Email: travis	s.casey@wsp	com, kalei.jennir	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@w	Deliverables: EDD	Other:
Project Name:	PLU PB 25-25-30		Turn Around	ound		ANALYSIS REQUEST	TS	Work Order Notes
er:	TEOD921035	38	Routine	*				ZN # 1000101 TE 7487
P.O. Number:			Rush:					THE PROPERTY OF
ne:	Travis Casey		Due Date:					1137141001
SAMPLE RECEIPT	IPT Temp Blank:	ank: Yes No	Wet Ice: (Yes	No				
Temperature (°C):	-0.2		Thermometer ID	ners)			
Received Intact:	Yes) No	INT	1		1)			
Cooler Custody Seals:	Yes (No		Correction Factor: 3	f Co	802	890-502 Chain o	2 Chain of Custody	TAT starts the day recevied by the
Sample Custody Seals:	Yes No	N/A Tota	Total Containers 3	er c	EPA		-	lab, if received by 4:30pm
Sample Identification		Matrix Date Sampled	Time D	Depth Numb	TPH (E BTEX (Sample Comments
CHOI		4-7-21	1125	-	H			
CHOIA				2`)	< < <			
64018				エ	1 1 1			Hold Willess CHOIA
								Exerchs 600cl
					1			
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RCF	Texas 11 Al	Sb As Ba Be	RCRA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Mo Ni K Se Ag SiO2 TI U	Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
otice: Signature of this d	ocument and relinquishm	ent of samples consti	tutes a valid purchase o	order from client co	ompany to Xenco, its a	lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to c	It assigns standard terms and conditions re due to circumstances beyond the control	
Xenco. A minimum cha	rge of \$75.00 will be appli	ed to each project and	a charge of \$5 for eac	h sample submitte	d to Xanco, but not an	f Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	less previously negotiated.	
Relinquished by: (Signature)	(Signature)	Received	Received by: (Signature)		Date/Time	Relinquished by: (Signature)	re) Received by: (Signature)	e) Date/Time
MS		Live	CTT	4	1.21 1700	2		
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Eurofins Xenco, Carlsbad

Reurofins Environment Testing America

Chain of Custody Record

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Phone 575-988-3199 Fax: 575-988-3199																			An	America
Client Information (Sub Contract Lab)	Sampler [.]			Lab PM Krame	_{Lab PM} Kramer, Jessica	ğ					Carrier Tracking No(s)	Tracki	ng No(s)			COC No: 890-154 1	o: 5 4 1		
	Phone.			E-Maii Jessic	E-Mail essica kramer@eurofinset co	eui@eui	ofinse	com			State of Origin. New Mexico	f Origin	0 -				Page: Page 1 of 1	1 of 1		
Company Eurofins Xenco	:				Accreditations Required (See INELAP - Louisiana, NEL	ions Rec	uired (note) AP - Texas	as							Job #: 890-502-1	02-1		
Address 1211 W Florida Ave, ,	Due Date Requested 4/13/2021	Ě				,		Ana	nalysis	Rec	Requested	<u>e</u>					Prese	Preservation Codes	des	
City Midland	TAT Requested (days)	ys)				\dashv		\dashv					\dashv	-			B NaO	HCL NaOH	o z <u>s</u>	Hexane None AsNaO2
State, Zip: TX, 79701																	m D (Nitric Acid	o T C	Na204S Na2SO3
Phone 432-704-5440(TeI)	PO#				r.											34		MeOH Amchlor Ascorbic Acid	- 0 70 	Na2S2O3 H2SO4 TSP Dodecahydrate
Email	WO#.				lo)											5		ice Di Water	< ⊂ -	Acetone VICAA
Project Name: PLU PB 25-25-30	Project #: 89000004				s or l		EX									tainer		ATA	ΝŞ	pH 4-5 other (specify)
Site	SSOW#:				SD (Y		alc B									of con	Other:			
			Sample	Matrix	Itered S 1 MS/M:	D_NM/80 GFM_28	036FP_C									umber				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, G=grab)	S≂solid, O=waste/oli, BT≖Tissue. A=Alr)	Perfor		3021B/			<u></u>						Fotal N		Special I	netru	Special Instructions/Note
	X	X	(A)	ion Code:	X			أسوما			Section 1			edit A	90-s	X			I	
CH01 (890-502-1)	4/7/21	11 25 Mountain		Solid		×	×									.4				
CH01 A (890-502-2)	4/7/21	11 40 Mountain		Solid		×	×									estés :				
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Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	olaces the ownership being analyzed the s irn the signed Chain	of method, ar amples must to of Custody atte	lalyte & accred the shipped bac esting to said o	tation complia to the Eurofiromplicance to	nce upon o s Xenco L Eurofins X	out subc LC labor enco LL	atory or	aborato other in	ries. Th nstructio	iis sam ins will	ole ship be prov	ment is	s forwa \ny cha	rded u anges	inder o	chain-c reditat	f-custo on stat	dy If the lat us should be	broug	y does not currently ht to Eurofins Xenco
Possible Hazard Identification Unconfirmed					Sam	ple Di □ _{Retu}	ole Disposal (/ Return To Clie	I (Afi Client	e ma	∏be a	assessed if san Disposal By I ah	sed if	sam,	ples	□arer	etain Arch	tained long	Sample Disposal (A fee may be assessed if samples are retained longer than 1 Return To Client Disposal By Lab Archive For	mc	month) Months
Deliverable Requested I, II III IV Other (specify)	Primary Deliverable Rank	able Rank 2	2		Spec	Special Instructions/0	tructio	ns/QC	2C Requirements	ireme	nts .	l				- 1				
Empty Kit Relinquished by		Date			Time							Methoc	Method of Shipment:	pment						
Relinquished by Got Oh 4-8-2	Date/Time:			Company		Received by	by:						g	Date/Time	œ.				င္ပ	Company
ν.	Date/Time:			Company		Received by	by						D	Date/Time:	ġ.				S	Company
Relinquished by:	Date/Time:			Company		Received by:	l by						D	Date/Time	ig.				ပ္ပ	Company
Custody Seals Intact \[\Delta \ \text{ Yes} \ \text{No} \]						Cooler Temperature(ampera	œ.	°C and C	and Other Remarks	əmarks		ŀ		l		l		H	

Ver. 11/01/2020

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

Eurofins Xenco, Carlsbad

Chain of Custody Record

💸 eurofins

Environment Testing America

	Custody Seals Intact: Custody Seal No	Relinquished by:	Reinquisned by	Relinquished by Goe Gy 4-8-21	Empty Kit Relinquished by	Deliverable Requested Til, III, IV Other (specify)	Unconfirmed	Possible Hazard Identification	Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laborat maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.								CH01 A (890-502-2)	CH01 (890-502-1)		Sample Identification - Client ID (Lab ID)	Comple Identification Client ID (1 pt ID)	Site:	Project Name: PLU PB 25-25-30	Email	Phone: 432-704-5440(Tel)	State Zip. TX, 79701	City: Midland	Address. 1211 W Florida Ave	Eurofins Xenco	Client Contact Shipping/Receiving	Client Information (Sub Contract Lab)
		Date/Time:	Date/Time:	Date/Time:		Primary Deliverable Rank			C places the ownership ix being analyzed, the seturn the signed Chain								4/7/21	4/7/21		Sample Date	7 1 1 1	SSOW#:	Project #: 89000004	WO#	PO #		TAT Requested (days):	Due Date Requested 4/13/2021		Phone	Sampler
					Date	able Rank 2			p of method an samples must be of Custody atte								11 40 Mountain	11 25 Mountain	X	Time	Φ						ays)·	ed			
		0		C					alyte & accredit e shipped back sting to said co			***************************************							Preservation Code:	G=grab) B											
		Company	Company	Company	Ш				ation complian to the Eurofins mplicance to E								Solid	Solid	on Code:	<u> </u>										E-Mail jessic	Lab PM Krame
ŀ	Q	R	7	Ç.R.	Time	Speci		Samo	ce upon ou Xenco LL urofins Xer								×	×	X	P	ield Filtered S erform MS/M 016MOD_NM/8	SD (Y	es or	No)					Accreditations Required (See no NELAP - Louisiana NELA	E-Mail jessica kramer@eurofinset.com	Lab PM Kramer, Jessica
	Cooler Temperature(s)	Received by	Received by	Received by		Special Instructions/Qu	Return To Clien	Die	It subcont C laborate 1co LLC.								×	×		<u></u>	00_ORGFM_28								ns Requi	@eurof	βú
	perature	,	~			ictions/	Return To Clien		ract labo ory or oth		-		_	<u> </u>			×	×		80	021B/5035FP_0	Calc B	TEX					A	ed (See na NEI	inset.α	
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l				7.Y			Archive For		-of-custo ation sta		is ka dila								1			Other:		모			B NaO C Zn A	Prese	Job #: 890-502-1	Page: Page	COC No: 890-154 1
			4	JUJOUXS					dy If th										H	Speci	·		EDA	ce DI Water	- Amchlor - Ascorbic Acid	Nitric Acid NaHSO4	NaOH Zn Acetate	rvation	02-1	Page: Page 1 of 1	54 1
									e labora Id be bro										V	al Inst	:		N:					Preservation Codes			
Ver 11/01/2020		Company	Company	Company			Months	noath I	ories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco		***************************************									Special Instructions/Note:			VV pH 4-5 Z other (specify)	U Acetone V MCAA	K Nazozoo S H2SO4 T TSP Dodecahydrate	P Na2O4S Q Na2SO3	N None O AsNaO2	5			

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-502-1 SDG Number: TE012921035

Login Number: 502 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-502-1

SDG Number: TE012921035

List Source: Eurofins Midland
List Number: 2
List Creation: 04/08/21 04:06 PM

Creator: Copeland, Tatiana

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

<6mm (1/4").

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

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

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

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

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

CONDITIONS

Action 27939

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	27939
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2106357887 PLU PB 25-25-30, thank you. This closure is approved.	7/20/2021