NAPP2110461994 Incident ID 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 Repo	ort Attachment Checklist: Each of the follow	wing items must be inc	luded in the closure report.
A scaled s	ite and sampling diagram as described in 19.1:	5.29.11 NMAC	
	ohs of the remediated site prior to backfill or p ed 2 days prior to liner inspection)	hotos of the liner integ	rity if applicable (Note: appropriate OCD District office
	y analyses of final sampling (Note: appropriate	e ODC District office n	nust be notified 2 days prior to final sampling)
□ Description □	on of remediation activities		
and regulations may endanger p should their ope human health or compliance with restore, reclaim	all operators are required to report and/or file obtains the alth or the environment. The acceptance rations have failed to adequately investigate as the environment. In addition, OCD acceptance any other federal, state, or local laws and/or any other federal of the	certain release notificating of a C-141 report by and remediate contaming of a C-141 report doregulations. The respothe conditions that exist	ny knowledge and understand that pursuant to OCD rules itions and perform corrective actions for releases which y the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, sees not relieve the operator of responsibility for nsible party acknowledges they must substantially ted prior to the release or their final land use in ation and re-vegetation are complete.
Printed Name: _	Adrian Baker	Title:	Environmental Coordinator
Signature:	Adrian Baker Odrion Baks	Date:9/28/202	21
email:a	adrian.baker@exxonmobil.com	Telephone:	432-236-3808
OCD Only			
Received by:	Robert Hamlet	Date:	2/8/2022
remediate conta		rface water, human hea	d their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible
Closure Approv	red by: Robert Hamlet	Date:	2/8/2022
Printed Name: _	Robert Hamlet	Title:	Environmental Specialist - Advanced

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2110461994
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party				OGRID	OGRID		
Contact Name				Contact Te	Contact Telephone		
Contact email Incide				Incident #	(assigned by OCD))	
Contact mail	ing address			1			
			Location	of Release So	ource		
Latitude			(NAD 83 in dec	Longitude _ imal degrees to 5 decin	nal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	licable)		
Unit Letter	Section	Township	Range	Coun	ity]	
Crude Oil	Material	Federal Tr	Nature and	l Volume of I		e volumes provided below)	
Produced		Volume Released			Volume Recovered (bbls)		
Troduced	w ater	Is the concentrate	ion of total dissolv vater >10,000 mg/		Yes N	<u> </u>	
Condensa	te	Volume Release	d (bbls)		Volume Reco	overed (bbls)	
☐ Natural G	as	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)	
Other (describe) Volume/Weight Released (provide		units)	Volume/Weig	ght Recovered (provide units)			
Cause of Rele	ease						

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Page 2 Oil Conservation Division

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Incident ID	NAPP2110461994
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the response	onsible party consider this a major release?		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?		
	Initial R	esponse		
The responsible	party must undertake the following actions immediate	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	s 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 <u>not</u> been undertaken, explain	why:		
has begun, please attach	a narrative of actions to date. If remedial	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.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:	R	Title:		
Printed Name:	drian Daks	Date:		
email:		Telephone:		
OCD Only				
Received by: Ramon	na Marcus	Date: <u>5/7/2021</u>		

Location:	Elk Wallow 11 State #1				
Spill Date:	Spill Date: 4/1/2021				
	Area 1				
Approximate A	rea =	39.10	sq. ft.		
Average Satura	tion (or depth) of spill =	4.00	inches		
Average Porosi	ty Factor =	0.25			
	,	1			
	VOLUME OF LEAK				
Total Crude Oil	=	0.55	bbls		
Total Produced	Water =	0.03	bbls		
	Area 2				
Approximate A	rea =	25.00	sq. ft.		
Average Satura	tion (or depth) of spill =	8.00	inches		
Average Porosi	ty Factor =	0.25			
	VOLUME OF LEAK				
Total Crude Oil	=	6.40	bbls		
Total Produced Water = 0.34			bbls		
	Area 3				
Approximate A	Approximate Area = 374.				
Average Satura	tion (or depth) of spill =	3.00	inches		
Average Porosi	ty Factor =	0.25			
Total Crudo Oil	VOLUME OF LEAK	2.05	bbls		
Total Crude Oil Total Produced			bbls		
		<u>. </u>			
	TOTAL VOLUME OF LEAK				
Total Crude Oil	Total Crude Oil = 10.90				
Total Produced	Water =	0.58	bbls		
	TOTAL VOLUME RECOVERED				
Total Crude Oil	=	5.70	bbls		
Total Produced	Total Produced Water = 0.30				

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

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 24086

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	24086	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
rmarcus	None

	Page 6 of 22	22
Incident ID	NAPP2110461994	
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?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	⊠ Yes □ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil	
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring 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.

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

e of New Mexico

Incident ID NAPP2110461994

Incident ID NAPP2110461994

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 items	must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11 N	MAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	ne liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Dis	strict office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
I hereby certify that the information given above is true and complete to and regulations all operators are required to report and/or file certain relemay endanger public health or the environment. The acceptance of a C-should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-compliance with any other federal, state, or local laws and/or regulations restore, reclaim, and re-vegetate the impacted surface area to the conditionacce accordance with 19.15.29.13 NMAC including notification to the OCD	ease notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability ate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for s. The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in when reclamation and re-vegetation are complete.
Printed Name: Adrian Baker	
Printed Name: Adrian Baker Signature: Date	e:9/28/2021
email:adrian.baker@exxonmobil.com Tele	ephone: 432-236-3808
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of li remediate contamination that poses a threat to groundwater, surface wate party of compliance with any other federal, state, or local laws and/or re	r, human health, or the environment nor does not relieve the responsible
Closure Approved by:	Date:
Printed Name:	Title:

wsp

WSP USA

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

September 28, 2021

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

RE: Closure Request
Elk Wallow 11 State #1
Incident Number NAPP2110461994
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, soil sampling, and excavation activities at the Elk Wallow 11 State #1 (Site) in Unit D, Section 11, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of crude oil and produced water at the Site. Based on the excavation activities and soil sample analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2110461994.

RELEASE BACKGROUND

On April 1, 2021, while removing the tank battery at the Site, an operator struck a 4-inch tank valve resulting in the release of 10.9 barrels (bbls) of crude oil and 0.58 bbls of produced water onto the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, approximately 5.7 bbls of crude oil and 0.30 bbls produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 14, 2021. The release was assigned Incident Number NAPP2110461994.

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 May 2021, WSP installed a soil boring (C-4525) within 0.5 miles of the Site utilizing a truckmounted hollow stem auger rig. Soil boring C-4525 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered



during drilling activities. The Well Record and Log is included in Attachment 1. The location of the borehole is approximately 0.5 miles southwest 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 110 feet bgs. The borehole was properly abandoned with hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is a riverine watercourse, located approximately 77 feet north 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, or church. The Site is located within 300 feet of a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

Benzene: 10 milligrams per kilogram (mg/kg)

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

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On April 22, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Surface indications of the release were observed on the north and south sides of the tank battery. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extents, from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extents and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) and are presented on Figure 2. Photographic documentation of the Site evaluation and a photographic log is included in Attachment 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, and method of analysis and immediately placed on ice. The



soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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.

Laboratory analytical results indicated that BTEX and TPH concentrations exceeded the Closure Criteria in preliminary soil samples SS01 through SS03; chloride concentrations were compliant with Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Remediation efforts were temporarily postponed pending Site abandonment activities. Once Site abandonment was complete, WSP personnel returned to the Site between August 5, 2021 and September 2, 2021, to oversee delineation and excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples.

Delineation pothole PH01 was advanced via backhoe to a depth of 13 feet bgs within the northern release extent to assess the vertical extent of impacted soil. Delineation soil samples were collected from the pothole from depths ranging from 1 foot to 13 feet bgs. Soil from the pothole was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for the pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation pothole location is presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Eurofins in Carlsbad, New Mexico.

Based on field screening activities and laboratory analytical results for the preliminary and delineation soil samples, excavation activities were completed to remove the impacted soil. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The northern excavation was completed to depths ranging from 4 feet to 6.5 feet bgs, the southern excavation was completed to a depth of 7 feet bgs. Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07, FS03A, and FS04A, were collected from the floor of the northern excavation at depths ranging from 4 feet to 6.5 feet bgs. Sidewall samples SW01 through SW04 were collected from the sidewalls of the northern excavation at depths ranging from ground



surface to 4 feet bgs. Composite soil samples FS08 through FS14 were collected from the floor of the southern excavation at a depth of 7 feet bgs. Sidewall samples SW05 through SW09 were collected from the sidewalls of the southern excavation at depths ranging from ground surface to 7 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extents and excavation soil sample locations are presented on Figure 4.

The final excavation extents measured approximately 2,770 square feet. A total of approximately 625 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After the completion of confirmation sampling, the excavation was secured with fencing.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01 and PH01A, collected at 1 foot and 4 feet bgs, indicated that TPH concentrations exceeded Closure Criteria. Subsequent delineation samples PH01B and PH01C, collected at 7 feet and 13 feet bgs, were compliant with the Closure Criteria and successfully delineated the vertical extent of impacted soil.

Laboratory analytical results for excavation floor samples FS01, FS02, FS03A, FS04A, and FS05 through FS14, and excavation sidewall samples SW01 through SW09, collected from the final excavation extents, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for excavation floor samples FS03 and FS04 indicated that chloride concentrations initially exceeded the Closure Criteria. Additional soil was removed from these areas and subsequent floor samples FS03A, and FS04A were compliant. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 4.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 1, 2021 release of crude oil and produced water. Based on the laboratory analytical results for the preliminary and delineation soil samples, impacted soil was excavated. Laboratory analytical results for the excavation soil samples collected from the final excavation extent indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. As such, XTO respectfully requests NFA for Incident Number NAPP2110461994.



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

Sincerely,

WSP USA Inc.

Tacoma Morrissey Consultant, Geologist

Mouissey

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

Ashley L. Ager

cc: Shelby Pennington, XTO

Adrian Baker, XTO

New Mexico State Land Office

Attachments:

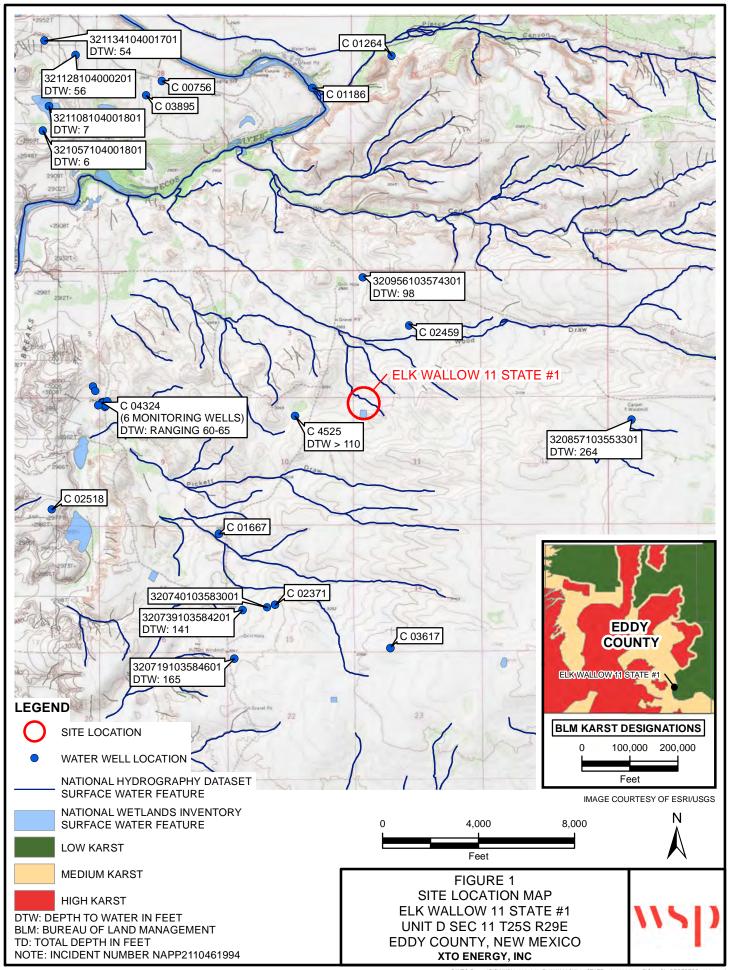
Figure 1 Site Location Map

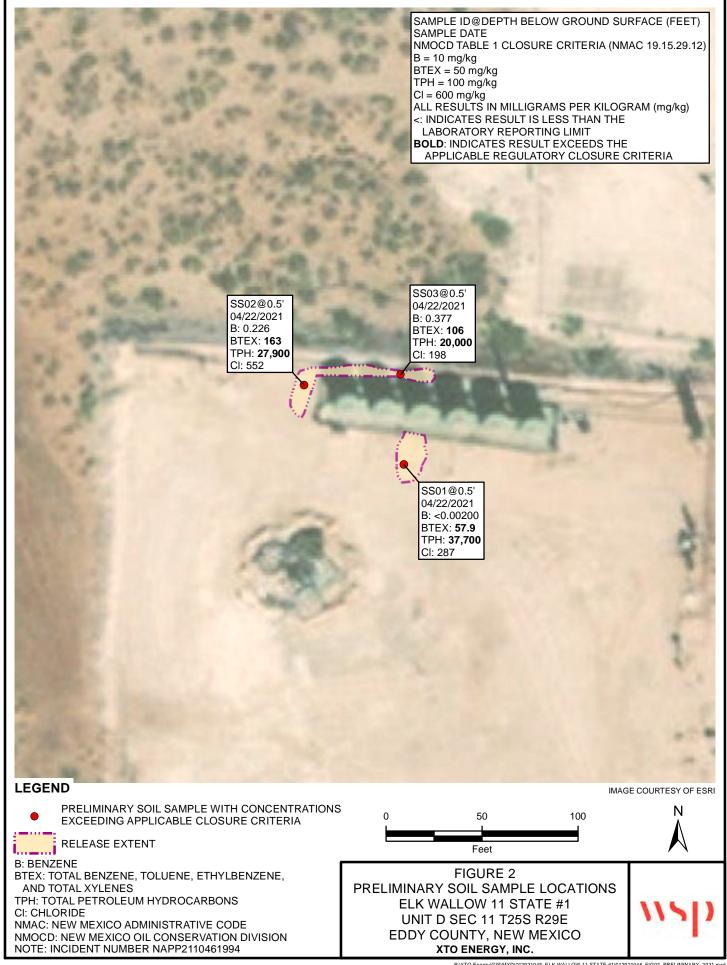
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations

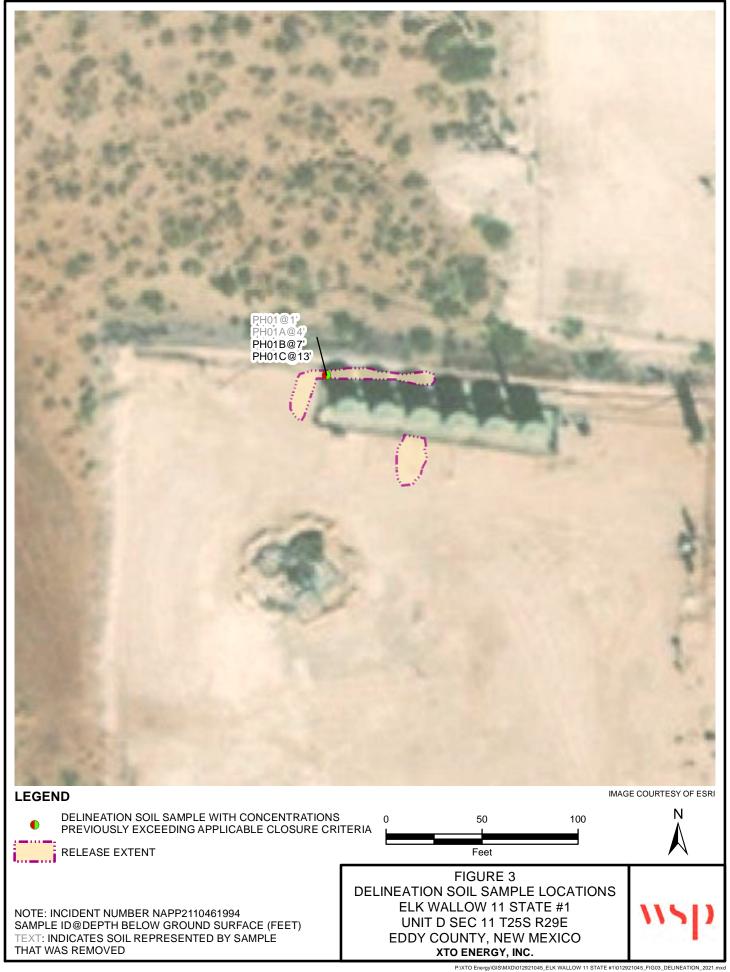
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

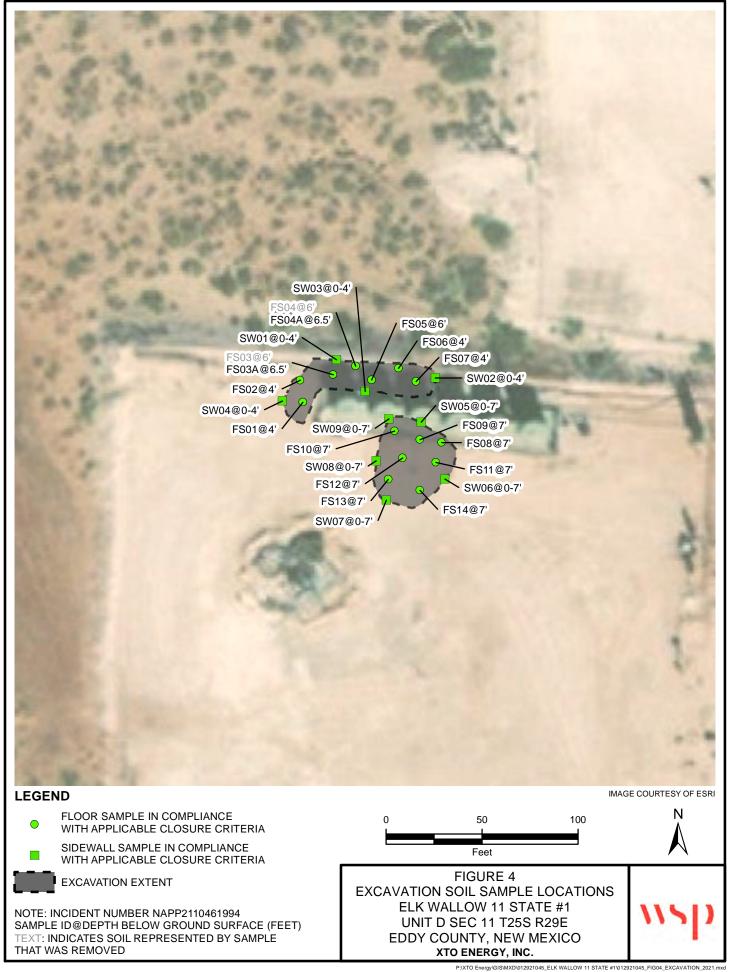
Attachment 2 Photographic Log

Attachment 3 Lithologic/ Soil Sampling Logs Attachment 4 Laboratory Analytical Reports









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Table 1
Soil Analytical Results
Elk Wallow 11 State #1

Incident Number NAPP2110461994 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	Closure Criteria (NM.	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	04/22/2021	0.5	< 0.00200	57.9	20,000	13,100	4,560	33,100	37,700	287
SS02	04/22/2021	0.5	0.226	163	17,000	6,890	3,960	23,900	27,900	552
SS03	04/22/2021	0.5	0.377	106	11,800	5,550	2,650	17,400	20,000	198
Delineation Sample	es									
PH01	08/05/2021	1	< 0.00199	0.320	2,480	2,100	315	4,580	4,900	271
PH01A	08/05/2021	4	< 0.00200	0.147	1,340	857	153	2,200	2,350	169
PH01B	08/05/2021	7	< 0.00201	0.0475	<50.0	<50.0	<50.0	<50.0	<50.0	44.5
PH01C	08/06/2021	13	< 0.00200	0.0243	<49.9	<49.9	<49.9	<49.9	<49.9	35.2
Excavation Floor S	amples									
FS01	08/06/2021	4	< 0.00202	0.0148	<49.8	<49.8	<49.8	<49.8	<49.8	133
FS02	08/06/2021	4	< 0.00202	0.0100	<49.9	<49.9	<49.9	<49.9	<49.9	284
FS03	08/06/2021	6	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	628
FS03A	09/02/2021	6.5	< 0.00199	< 0.00398	85.5	<49.9	<49.9	85.5	85.5	385
FS04	08/06/2021	6	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	< 50.0	<50.0	612
FS04A	09/02/2021	6.5	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	246
FS05	08/06/2021	6	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	< 50.0	<50.0	539
FS06	08/06/2021	4	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	520
FS07	08/06/2021	4	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	85.1
FS08	08/12/2021	7	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.7
FS09	08/12/2021	7	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	< 50.0	<50.0	26.3
FS10	08/12/2021	7	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	50.9
FS11	08/12/2021	7	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	< 50.0	< 50.0	46.4
FS12	08/12/2021	7	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	67.8
FS13	08/12/2021	7	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	< 50.0	< 50.0	56.2
FS14	08/12/2021	7	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	42.2

Received by OCD: 9/28/2021 11:11:25 AM

Table 1

Soil Analytical Results Elk Wallow 11 State #1 Incident Number: NAPP2110461994 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Excavation Sidewall	Samples									
SW01	08/06/2021	0 - 4	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	43.1
SW02	08/06/2021	0 - 4	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	185
SW03	08/06/2021	0 - 4	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	304
SW04	08/06/2021	0 - 4	< 0.00200	< 0.00401	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	431
SW05	08/09/2021	0 - 7	< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	105
SW06	08/09/2021	0 - 7	< 0.00200	< 0.00399	< 50.0	< 50.0	< 50.0	< 50.0	<50.0	22.7
SW07	08/09/2021	0 - 7	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	165
SW08	08/12/2021	0 - 7	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	66.0
SW09	08/12/2021	0 - 7	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	22.3

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Greyed data represents samples that were excavated



				··-								
	OSE POD NO		IO.)		WELL TAG ID NO).		OSE FILE NO(S	5).			
NO	POD1 (M	IW-1)			n/a			C-4525				
GENERAL AND WELL LOCATION	WELL OWN		• •			PHONE (OPTIONAL)						
ဝ	XTO Energ	gy (Kyle	: Littrell)						İ			
LI			NG ADDRESS					CITY		STATE		ZIP
VE!	6401 Holid	lay Hill	Dr.					Midland		TX	79707	
Á				DEGREES	MINUTES	SECON	DS	<u> </u>				
¥	WELL LOCATIO	NI .		32°	8'	57.4	8" N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SE	COND	
E	(FROM GF	PS)	ATITUDE	103°	58'	18.2		* DATUM REC	QUIRED: WGS 84			
NE		L	ONGITUDE									
1. G	NW NE Se		ING WELL LOCATION 25S R29E	FO STREET ADD	RESS AND COMMO	N LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAIL	ABLE	
	LICENSE NO)	NAME OF LICENSI	D DRILLER					NAME OF WELL DR	LLING CO	MPANY	
	124				Jackie D. Atkins	s			ľ		Associates, L	nc.
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF CO	OMPLETED WELL (F	(T)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIRE	ST ENCOUN	TERED (FT)	
	05/26/		05/26/2021		rary well materi			110		n/a	, -,	
			1			J			STATIC WATER LEV	EL IN COM	PLETED WE	LL (FT)
NO	COMPLETE	D WELL IS	artesian	DRY HO	LE SHALLO	OW (UNCO	NFINED)			n/a		
ATIC	DRILLING F	LUID:	✓ AIR	☐ MUD	ADDITIV	VES - SPEC	IFY:					
2. DRILLING & CASING INFORMATION	DRILLING M	ÆTHOD:	ROTARY	П намме	R CABLE	TOOL	✓ OTHE	R - SPECIFY: Hollow Stem Auger				_
INF	DEPTH (feet bgl) FROM TO DIAM		CASING	GRADE CONN			ASING	CASING	CASIN	CASING WALL SLOT SIZE		
NG							NECTION	INSIDE DIAM.				
ASI	(inches)				note sections of screen) (add con			YPE ling diameter)	(inches)	(in	ches)	(inches)
2 & C	0	110	±8.5		Boring- HSA							
N.G.												
LLI												
DRI								·				
2.]												
										}		
	DEPTH	(feet bgl)	BORE HOLE	T	IST ANNULAR S	EAI. MA	TERIAL A	AND	AMOUNT		METHO	D OF
Ţ	FROM	ТО	DIAM (inches	_	AVEL PACK SIZE				(cubic feet)		PLACEM	
SRI.	TROM	10										
ATI												
R M											-	
[*]												
ANNULAR MATERIAL		<u> </u>								-	-	
3. A.										-+		
										-+		
		<u> </u>	L									
FOR	OSE INTER	NAL US	4626		POD NO			WR-2	NO. 1997	& LOG (V	ersion 06/3	U/17)

05E 011 JUN 10 2021 22146

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION

	DEPTH (1	feet bgl)		COLOR AN	D TYPE OF MATERIAL	ENCOLIN	repen .		DIATE	_	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	R-BEARING CAVITIES	OR FRAC	TURE ZONE	s	WATE BEARIN (YES/N	IG?	YIELD FOR WATER- BEARING
			, ,	(attach sup	plemental sheets to fully	describe a	ll units)		(163/1	10)	ZONES (gpm)
	0	24	24	CALIC	HE, mod. consolidated, tar	n-off white,	dry		Y	√N	
	24	29	5	SAND, poorly gra	aded, very- fine grained, ca	liche grave	l, light-brow	n	Y	√N	
	29	39	10	SAND, poorly graded	i, very- fine grained, calich	ne gravel, l	ight-brown, n	noist	Y	√N	
	39	44	5	SAND, poorly	y graded, very- fine graine	d, light-bro	wn, moist		Y	√N	
	44	59	15	SAND, poorly	y graded, very- fine graine	d, light-bro	wn, moist		Y	√N	
r.	59	69	10	SAND, po	orly graded, very- fine grai	ined, brown	ı, moist		Y	√N	
WE	69	74	5	SAND, poorly gra	ded, very- fine grained, ca	liche grave	l, brown, moi	st	Y	√N	
OF	74	79	5	SILTY SAND, poorly	graded, very- fine grained	l, caliche gr	avel, brown,	moist	Y	√N	
507	79	89	10	SAND, poorly	graded, very- fine grained,	with silt, b	rown, moist		Y	√N	
וכוני	89	94	5	SILTY SAND, poorly	graded, very- fine grained	l, caliche gr	avel, brown,	noist	Y	√N	
4. HYDROGEOLOGIC LOG OF WELL	94	110	16	SILTY SAND	, poorly graded, very- fine	grained, br	own, moist		Y	√ N	
GEO					<u> </u>			_	Y	N	
RO									Y	N	
HYD									Y	N	
4.									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:			TOTA	AL ESTIMA	TED	
	PUMI	P A	IR LIFT	BAILER OT	THER - SPECIFY:			WEI	L YIELD ((gpm):	0.00
NO	WELL TES				A COLLECTED DURING						
VISION	MISCELLA	NEOUS INF	ORMATION: T	managar wall mataria	als removed and the soil	horing h	alefillad nair	d=i1	Lauttinaa f	tot	al danth to ton
PER			ie	et below ground surfa	ice, then hydrated bento	nite chips	from ten fe	t belo	w ground s	surface	to surface.
TEST; RIG SUPER			L	ogs adapted from WSI	P on-site geologist.						
; RIC											
EST	PRINT NAM	(E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERV	VISION OF	WELL CON	STRU	CTION OTI	HER TH	AN LICENSEE:
5. T			lo Trevino, Can								
URE	CORRECT I	RECORD OF	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KY ID THAT HE OR SHE WI PLETION OF WELL DRI	ILL FILE 1					
SIGNATURE	Jack 1	Atkins		Jac	ckie D. Atkins				06/09/2	2021	
6.		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME				Γ	DATE	
F.C.	ORE DIFFER	NAT TION					NW 00 U.S.		CORPAT	20.01	
	R OSE INTERI E NO.	NAL USE	4525		POD NO.	<i>1</i>	TRN NO.	LL RE	9 2/	04 (Ver	sion 06/30/2017)
-	CATION		, 0 a		1 - 2- 11-	WEII	TAG ID NO.	<u> </u>	100	ι <u></u>	PAGE 2 OF 2
				 		WELL	יעם זה אם.				

DESCRIPTION:

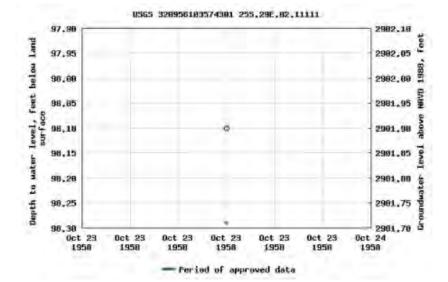
Latitude 32°09'56', Longitude 103°57'43' NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well deght: 140 feet Land surface altitude: 3,000 feet above NAVD88. Well completed in "Other aquifers" (N999071HER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1958-10-23	1958-10-23	1
Revisions	Unavallable	(site:0) (times	eries:0)

OPERATION:

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





	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Elk Wallow 11 State #1	NAPP2110461994
	Eddy County, New Mexico	

 Photo No.
 Date

 1
 April 1, 2021

View of southern release extent facing north.



Photo No. Date
2 April 22, 2021
View of northern release extent

facing southwest.





Photo No.

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Elk Wallow 11 State #1	NAPP2110461994
	Eddy County, New Mexico	

3	August 4, 2021							
View of southern	excavation facing							
north. Northern e	excavation is in the							
background, tanks have been								
removed.								

Date



Photo No.	Date
4	August 5, 2021
View of north	ern excavation
c ·	

facing west.



7	WSP USA								BH or PH Name: PH01	8/4/2021
	300 West Stevens Street							Site Name: Elk Wallow 11 St		
								RP or Incident Number: NAP		
								VSP Job Number: TE01292		
1 - 1/1 -	00.45						G		Logged By: JH and AC	Method: Backhoe
Lat/Lo	ong: 32.15	143, -103	3.96225)	Field Scre Hach chlo		PID	ľ	Hole Diameter: 2 feet	Total Depth: 13 feet bgs
				enings inclu	de a 40% d	correction	factor			
M-mo	ist; D-dry;	Y-yes; N-	no; BD	L- below dete	ection limits	S	1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	yy/Remarks
	524	30.4		PH01	1 1 1 -	∐ - 1	SP			
		199			- - - -	2	SP			
	436	436.0		PH01A	4	4	SP			
	300	1409	Υ			5	CCHE	faint odor		
	300	29.3	Υ	PH01B	7	7	CCHE	faint odor		
	179	89.7				9	SM			
	319	38.7				11	SM			
	269	2.3		PH01C	13	13	SM	TD @ 13'		
`										
			_							
					_					
							\			



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-559-1

Laboratory Sample Delivery Group: TE012921045 Client Project/Site: Elk Wallow 11 State # 1

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 4/29/2021 10:01:16 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/8/2022 8:45:41 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.

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State # 1

Laboratory Job ID: 890-559-1

SDG: TE012921045

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QC Association Summary	13
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3

4

6

8

11

13

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1

SDG: TE012921045

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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)

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

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

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State # 1

Job ID: 890-559-1

SDG: TE012921045

Job ID: 890-559-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-559-1

Receipt

The samples were received on 4/22/2021 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-559-1), SS02 (890-559-2) and SS03 (890-559-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-559-1), SS02 (890-559-2) and SS03 (890-559-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc. Job ID: 890-559-1 SDG: TE012921045

Project/Site: Elk Wallow 11 State # 1

Client Sample ID: SS01 Lab Sample ID: 890-559-1 Date Collected: 04/22/21 11:00 Matrix: Solid

Date Received: 04/22/21 16:21

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/23/21 13:38	04/24/21 19:22	1
Toluene	16.4		0.200	mg/Kg		04/26/21 10:48	04/26/21 18:31	100
Ethylbenzene	0.341		0.00200	mg/Kg		04/23/21 13:38	04/24/21 19:22	
m-Xylene & p-Xylene	23.8		0.401	mg/Kg		04/26/21 10:48	04/26/21 18:31	100
o-Xylene	9.55		0.200	mg/Kg		04/26/21 10:48	04/26/21 18:31	100
Xylenes, Total	33.4		0.401	mg/Kg		04/26/21 10:48	04/26/21 18:31	100
Total BTEX	57.9		0.401	mg/Kg		04/26/21 10:48	04/26/21 18:31	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	682	S1+	70 - 130			04/23/21 13:38	04/24/21 19:22	
1,4-Difluorobenzene (Surr)	82		70 - 130			04/23/21 13:38	04/24/21 19:22	
Method: 8015B NM - Diesel Rai	Result	RO) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 13100		250	mg/Kg	<u>D</u>	04/26/21 08:55	04/26/21 18:58	Ę
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result				<u>D</u>	<u>.</u>		
Analyte Gasoline Range Organics	Result 13100 20000		250 250	mg/Kg	<u>D</u>	04/26/21 08:55 04/26/21 08:55	04/26/21 18:58 04/26/21 18:58	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 13100 20000 4560		250 250 250	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 08:55 04/26/21 08:55 04/26/21 08:55	04/26/21 18:58 04/26/21 18:58 04/26/21 18:58	£
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 13100 20000 4560 37700	Qualifier	250 250 250 250	mg/Kg mg/Kg mg/Kg	D	04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55	04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 04/26/21 18:58	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result 13100 20000 4560 37700 %Recovery	Qualifier Qualifier	250 250 250 250 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 Prepared	04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 13100 20000 4560 37700 %Recovery 228 333	Qualifier Qualifier S1+ S1+	250 250 250 250 250 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 Prepared 04/26/21 08:55	04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 Analyzed 04/26/21 18:58	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier Qualifier S1+ S1+	250 250 250 250 250 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55 Prepared 04/26/21 08:55	04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 04/26/21 18:58 Analyzed 04/26/21 18:58	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-559-2 Date Collected: 04/22/21 11:10 **Matrix: Solid**

Date Received: 04/22/21 16:21

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.226		0.00198	mg/Kg		04/23/21 13:38	04/24/21 19:43	1
Toluene	32.0		1.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
Ethylbenzene	23.3		1.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
m-Xylene & p-Xylene	79.7		2.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
o-Xylene	28.0		1.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
Xylenes, Total	108		2.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
Total BTEX	163		2.01	mg/Kg		04/28/21 12:45	04/28/21 16:50	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	857	S1+	70 - 130			04/23/21 13:38	04/24/21 19:43	1
1,4-Difluorobenzene (Surr)	93		70 - 130			04/23/21 13:38	04/24/21 19:43	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

Client Sample ID: SS02 Lab Sample ID: 890-559-2 Date Collected: 04/22/21 11:10 Date Received: 04/22/21 16:21

Result Qualifier

Sample Depth: - 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6890		249	mg/Kg		04/26/21 08:55	04/27/21 07:07	5
Diesel Range Organics (Over C10-C28)	17000		249	mg/Kg		04/26/21 08:55	04/27/21 07:07	5
Oll Range Organics (Over C28-C36)	3960		249	mg/Kg		04/26/21 08:55	04/27/21 07:07	5
Total TPH	27900		249	mg/Kg		04/26/21 08:55	04/27/21 07:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1+	70 - 130			04/26/21 08:55	04/27/21 07:07	5
o-Terphenyl	257	S1+	70 - 130			04/26/21 08:55	04/27/21 07:07	5
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	552		4.95	mg/Kg			04/28/21 03:48	1

Client Sample ID: SS03 Lab Sample ID: 890-559-3

RL

Unit

Prepared

Date Collected: 04/22/21 11:20

Method: 8021B - Volatile Organic Compounds (GC)

Date Received: 04/22/21 16:21

Sample Depth: - 0.5

Analyte

Benzene	0.377		0.00202	mg/Kg	04/23/21 13:38	04/24/21 21:06	1
Toluene	28.4		0.202	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
Ethylbenzene	14.3		0.202	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
m-Xylene & p-Xylene	44.0		0.404	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
o-Xylene	17.6		0.202	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
Xylenes, Total	61.6		0.404	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
Total BTEX	106		0.404	mg/Kg	04/26/21 10:48	04/26/21 19:12	100
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	440	S1+	70 - 130		04/23/21 13:38	04/24/21 21:06	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/26/21 10:48	04/26/21 19:12	100
			70 - 130		04/23/21 13:38	04/24/21 21:06	1
1,4-Difluorobenzene (Surr)	108		70 - 700				
1,4-Difluorobenzene (Surr)	84	RO) (GC)	70 - 130		04/26/21 10:48	04/26/21 19:12	100
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rai	84		70 - 130	Unit	04/26/21 10:48	04/26/21 19:12	
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics	84	RO) (GC) Qualifier		Unit mg/Kg			100 Dil Fac 5
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (DI		70 - 130 RL		04/26/21 10:48 D Prepared	04/26/21 19:12 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (DI Result 5550		70 - 130 RL 249	mg/Kg	04/26/21 10:48 D Prepared 04/26/21 08:55	04/26/21 19:12 Analyzed 04/27/21 07:36	Dil Fac 5
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	94 nge Organics (DI Result 5550 11800		70 - 130 RL 249 249	mg/Kg	D Prepared 04/26/21 08:55 04/26/21 08:55	Analyzed 04/27/21 07:36 04/27/21 07:36	5
1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (DI Result 5550 11800 2650	Qualifier	70 - 130 RL 249 249 249	mg/Kg mg/Kg mg/Kg	D Prepared 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55	Analyzed 04/27/21 07:36 04/27/21 07:36 04/27/21 07:36	Dil Fac 5 5 5
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	nge Organics (DI Result 5550 11800 2650 20000 %Recovery	Qualifier	70 - 130 RL 249 249 249 249	mg/Kg mg/Kg mg/Kg	D Prepared 04/26/21 08:55 04/26/21 08:55 04/26/21 08:55	Analyzed 04/27/21 07:36 04/27/21 07:36 04/27/21 07:36 04/27/21 07:36	Dil Fac 5 5

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Matrix: Solid

Dil Fac

Analyzed

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-559-1

Project/Site: Ell/ Wellow 11 State # 1

Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

Client Sample ID: SS03

Date Collected: 04/22/21 11:20

Matrix: Solid

Date Received: 04/22/21 16:21

Sample Depth: - 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	198		5.00	mg/Kg			04/28/21 03:54	1

5

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8

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12

13

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

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)	
390-559-1	SS01	682 S1+	82	
890-559-2	SS02	857 S1+	93	
890-559-3	SS03	440 S1+	108	
890-559-3	SS03	97	84	
LCS 880-2226/1-B	Lab Control Sample	90	103	
LCS 880-2322/1-A	Lab Control Sample	101	104	
LCSD 880-2226/2-B	Lab Control Sample Dup	97	107	
LCSD 880-2322/2-A	Lab Control Sample Dup	99	105	
MB 880-2226/5-B	Method Blank	109	98	
MB 880-2322/5-A	Method Blank	99	102	

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 Lim
		1001	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
)-559-1	SS01	228 S1+	333 S1+	
-559-2	SS02	197 S1+	257 S1+	
)-559-3	SS03	169 S1+	191 S1+	
880-2316/2-A	Lab Control Sample	98	101	
880-2316/3-A	Lab Control Sample Dup	97	100	
880-2316/1-A	Method Blank	88	99	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-559-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2226/5-B

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Analysis Batch: 2277

Client Sample ID: Method Blank

Prep Batch: 2226

Prep Type: Total/NA

04/24/21 16:15

04/23/21 13:38

Dil Fac

Result Qualifier RL Unit Prepared Analyzed <0.00200 U 0.00200 mg/Kg 04/23/21 13:38 04/24/21 16:15 <0.00200 U 0.00200 mg/Kg 04/23/21 13:38 04/24/21 16:15 <0.00200 U 0.00200 04/23/21 13:38 04/24/21 16:15 mg/Kg <0.00400 U 0.00400 mg/Kg 04/23/21 13:38 04/24/21 16:15 <0.00200 U 0.00200 04/23/21 13:38 04/24/21 16:15 mg/Kg <0.00400 U 0.00400 04/23/21 13:38 04/24/21 16:15 mg/Kg

mg/Kg

MB MB

<0.00400 U

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	04/23/21 13:38	04/24/21 16:15	1
1,4-Difluorobenzene (Surr)	98	70 - 130	04/23/21 13:38	04/24/21 16:15	1

0.00400

Lab Sample ID: LCS 880-2226/1-B **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 2277

Prep Type: Total/NA

Prep Batch: 2226

	;	Бріке	LCS	LCS				%Rec.	
Analyte	A	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		0.100	0.08212		mg/Kg		82	70 - 130	
Toluene		0.100	0.09331		mg/Kg		93	70 - 130	
Ethylbenzene		0.100	0.09093		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene		0.200	0.1860		mg/Kg		93	70 - 130	
o-Xylene		0.100	0.09092		mg/Kg		91	70 - 130	

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LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	90	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-2226/2-B

Matrix: Solid

Analysis Batch: 2277

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2226

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08693		mg/Kg		87	70 - 130	6	35	
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	9	35	
Ethylbenzene	0.100	0.09697		mg/Kg		97	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.1979		mg/Kg		99	70 - 130	6	35	
o-Xylene	0.100	0.09656		mg/Kg		97	70 - 130	6	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 _ 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: MB 880-2322/5-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2322

MR MR

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/21 10:48	04/26/21 15:59	1

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

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

Lab Sample ID: MB 880-2322/5-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2322

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/21 10:48	04/26/21 15:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/21 10:48	04/26/21 15:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/21 10:48	04/26/21 15:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/21 10:48	04/26/21 15:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/26/21 10:48	04/26/21 15:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/26/21 10:48	04/26/21 15:59	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/26/21 10:48	04/26/21 15:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/26/21 10:48	04/26/21 15:59	1

Lab Sample ID: LCS 880-2322/1-A

Matrix: Solid

Analysis Batch: 2325

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

Prep Batch: 2322

	Бріке	LUS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09265		mg/Kg		93	70 - 130	
Toluene	0.100	0.09469		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-2322/2-A

Matrix: Solid

o-Xylene

Analysis Batch: 2325

Client Sample ID: Lab Control Sample Dup

70 - 130

Prep Type: Total/NA Prep Batch: 2322

35

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09343 mg/Kg 93 70 - 130 35 0.100 Toluene 0.09645 96 70 - 130 35 mg/Kg 2 0.100 0.1022 mg/Kg 102 70 - 130 35 Ethylbenzene 0.200 m-Xylene & p-Xylene 0.2080 104 70 - 130 35 mg/Kg

0.1011

mg/Kg

0.100

LCSD LCSD

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1 SDG: TE012921045

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

Lab Sample ID: MB 880-2316/1-A

Matrix: Solid Analysis Batch: 2308 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2316

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/26/21 08:55	04/26/21 10:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/26/21 08:55	04/26/21 10:40	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/26/21 08:55	04/26/21 10:40	1
Total TPH	<50.0	U	50.0	mg/Kg		04/26/21 08:55	04/26/21 10:40	1

мв мв

MD MD

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	88		70 - 130	04/26/21 08:55	04/26/21 10:40	1
l	o-Terphenyl	99		70 - 130	04/26/21 08:55	04/26/21 10:40	1

Lab Sample ID: LCS 880-2316/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid

Spike

Added

1000

1000

LCS LCS

Result

995.7

942.9

Analysis Batch: 2308

Gasoline Range Organics

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 2316

%Rec. Qualifier Unit %Rec Limits 100 70 - 130 mg/Kg mg/Kg 94 70 - 130

C10-C28)

(GRO)-C6-C10

Analyte

LCS LCS

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

Lab Sample ID: LCSD 880-2316/3-A

Matrix: Solid

Analysis Batch: 2308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2316

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	 1000	995.1		mg/Kg		100	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	944.7		mg/Kg		94	70 - 130	0	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2215/1-A

Matrix: Solid

Analysis Batch: 2403

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 04/28/21 01:12

Lab Sample ID: LCS 880-2215/2-A

Matrix: Solid

QC Sample Results

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1

SDG: TE012921045

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analysis Batch: 2403 Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec Limits

Chloride 250 257.7 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-2215/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 2403

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 264.3 mg/Kg 106 90 - 110 3 20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-559-1 Project/Site: Elk Wallow 11 State # 1

SDG: TE012921045

GC VOA

Prep Batch: 2226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	5035	
890-559-2	SS02	Total/NA	Solid	5035	
890-559-3	SS03	Total/NA	Solid	5035	
MB 880-2226/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-2226/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2226/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	8021B	2226
890-559-2	SS02	Total/NA	Solid	8021B	2226
890-559-3	SS03	Total/NA	Solid	8021B	2226
MB 880-2226/5-B	Method Blank	Total/NA	Solid	8021B	2226
LCS 880-2226/1-B	Lab Control Sample	Total/NA	Solid	8021B	2226
LCSD 880-2226/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	2226

Prep Batch: 2322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	5035	
890-559-3	SS03	Total/NA	Solid	5035	
MB 880-2322/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2322/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2322/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	8021B	2322
890-559-3	SS03	Total/NA	Solid	8021B	2322
MB 880-2322/5-A	Method Blank	Total/NA	Solid	8021B	2322
LCS 880-2322/1-A	Lab Control Sample	Total/NA	Solid	8021B	2322
LCSD 880-2322/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2322

Analysis Batch: 2381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-2	SS02	Total/NA	Solid	8021B	2384

Prep Batch: 2384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-2	SS02	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 2308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	8015B NM	2316
890-559-2	SS02	Total/NA	Solid	8015B NM	2316
890-559-3	SS03	Total/NA	Solid	8015B NM	2316
MB 880-2316/1-A	Method Blank	Total/NA	Solid	8015B NM	2316
LCS 880-2316/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2316
LCSD 880-2316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2316

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-559-1

 Project/Site: Elk Wallow 11 State # 1
 SDG: TE012921045

GC Semi VOA

Prep Batch: 2316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Total/NA	Solid	8015NM Prep	
890-559-2	SS02	Total/NA	Solid	8015NM Prep	
890-559-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-2316/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2316/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Soluble	Solid	DI Leach	
890-559-2	SS02	Soluble	Solid	DI Leach	
890-559-3	SS03	Soluble	Solid	DI Leach	
MB 880-2215/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2215/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2215/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-559-1	SS01	Soluble	Solid	300.0	2215
890-559-2	SS02	Soluble	Solid	300.0	2215
890-559-3	SS03	Soluble	Solid	300.0	2215
MB 880-2215/1-A	Method Blank	Soluble	Solid	300.0	2215
LCS 880-2215/2-A	Lab Control Sample	Soluble	Solid	300.0	2215
LCSD 880-2215/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2215

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Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State # 1

Job ID: 890-559-1

SDG: TE012921045

Client Sample ID: SS01

Lab Sample ID: 890-559-1

Matrix: Solid

Date Collected: 04/22/21 11:00 Date Received: 04/22/21 16:21

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 19:22	KL	XM
Total/NA	Prep	5035			2322	04/26/21 10:48	KL	XM
Total/NA	Analysis	8021B		100	2325	04/26/21 18:31	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		5	2308	04/26/21 18:58	AJ	XM
Soluble	Leach	DI Leach			2215	04/23/21 12:29	СН	XM
Soluble	Analysis	300.0		1	2403	04/28/21 03:43	CH	XM

Client Sample ID: SS02 Lab Sample ID: 890-559-2

Date Collected: 04/22/21 11:10

Date Received: 04/22/21 16:21

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 19:43	KL	XM
Total/NA	Prep	5035			2384	04/28/21 12:45	KL	XM
Total/NA	Analysis	8021B		500	2381	04/28/21 16:50	MR	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		5	2308	04/27/21 07:07	AJ	XM
Soluble	Leach	DI Leach			2215	04/23/21 12:29	CH	XM
Soluble	Analysis	300.0		1	2403	04/28/21 03:48	CH	XM

Client Sample ID: SS03

Date Collected: 04/22/21 11:20

Lab Sample ID: 890-559-3

Matrix: Solid

Date Received: 04/22/21 16:21

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2226	04/23/21 13:38	KL	XM
Total/NA	Analysis	8021B		1	2277	04/24/21 21:06	KL	XM
Total/NA	Prep	5035			2322	04/26/21 10:48	KL	XM
Total/NA	Analysis	8021B		100	2325	04/26/21 19:12	KL	XM
Total/NA	Prep	8015NM Prep			2316	04/26/21 08:55	DM	XM
Total/NA	Analysis	8015B NM		5	2308	04/27/21 07:36	AJ	XM
Soluble	Leach	DI Leach			2215	04/23/21 12:29	СН	XM
Soluble	Analysis	300.0		1	2403	04/28/21 03:54	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: 890-559-1

 Project/Site: Elk Wallow 11 State # 1
 SDG: TE012921045

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-20-21	06-30-21	
• ,	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes to	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State # 1

Job ID: 890-559-1

SDG: TE012921045

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

Released to Imaging: 2/8/2022 8:45:41 AM

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: Elk Wallow 11 State # 1

Job ID: 890-559-1

SDG: TE012921045

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
0-559-1	SS01	Solid	04/22/21 11:00	04/22/21 16:21	- 2
0-559-2	SS02	Solid	04/22/21 11:10	04/22/21 16:21	- 0.5
90-559-3	SS03	Solid	04/22/21 11:20	04/22/21 16:21	- 0.5

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Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb calca. Signature of this document and relinquishment of eamples and shall not assume any responsibility for any losses or expenses incurred by the client if such loss xence. 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 liable only: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Date/Time Relinquished by:		\$\$01 \$\$02 \$\$03	RECEIPT CC): St. y Seals: dy Seals:	roject Name:	e ZIP:		Toject Manager: Dan Moir
Metal(s) to be analy and relinquishment of ear for the cost of samples a 5.00 will be applied to eac ature) Cu		w w w	Spencer L Temp Blank: Yes No N/A es No N/A Matrix	Elk Wallow 11 State #1	Midland, TX 79705 (303) 887-2946	WSP 3300 North A Street	Dan Moir
INCRA ISPLE IVZED TCLP / SPLP Amples samellates a relid purch s and shall not assume any respo and project and a charge of \$5 for Received by: (Signature)		+	Thermo Orrection F Otal Conta	tate #1			Hou M Hobbs,NM (579
TCLP / SPLP 6010: 8RCRA Illustration and responsibility for any loss of a charge of \$5 for each sample submit by: (Signature)		0 0.5	Routine Rush: Due Date: Yes No No No No No No No No	Turn Around	City, State ZIP: mail: Spencer Lo@ws	Company Name: Address:	uston,TX (281) 240-4200 idland,TX (432-704-5440 -392-7550) Phoenix,AZ Bill to: (if different)
0: 8RCRA Sb As Ba Be Record of the sample submitted to Xenco, but no Date/Time		× × × × × ×	PH (EPA 8015) STEX (EPA 0=8021)		р сот		Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Bill to: (if different) Kyle Littrell
Be Cd Cr Co Cu Pb Be Cd Cr Co C		× × ×	Chloride (EPA 300.0)	ANAL	38220 ey@wsp.com,Dan.Mon	an Street	Custody 0300 San Antonio,TX (35-3443 Lubbock,TX (8 ta,GA (770-449-8800)
Cr Co Cu Pb Mn Mo Ni Se Ag Cr Co Cu Pb Mn Mo Ni Se Ag dies and subcontractors. It assigns standard to the client if such losses are due to circumstance ted. These terms will be enforced unless previou Relinquished by: (Signature)			890-559 Chain of Custody	ANALYSIS REQUEST		Prog	210) 509-3334 06)794-1296 Tampa,FL (813-620-20
[################################	: 		f Custody		Reporting:Level IILev	Program: UST/PST ☐ State of Project:	Wo
(Sign:			Spiil d		Level III ST/UST ADaPT	RPBrownfields	Work Order No: www.xenco.com Page Work Order Comments
5.1 / 7470 Da	1		API: 30-015-37588 Spill date: 04/01/2021 TAT starts the day recevied by the lab, if received by 4:30pm Sample Comments	Work Order Notes	Other:	_RRC	Page of ofof

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-559-1

SDG Number: TE012921045

List Source: Eurofins Carlsbad

Login Number: 559 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-559-1 SDG Number: TE012921045

Login Number: 559
List Source: Eurofins Midland
List Number: 2
List Creation: 04/23/21 02:44 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: 890-1083-1

Laboratory Sample Delivery Group: WSPTPE012921045

Client Project/Site: Elk Wallow 11 State #11

Revision: 1

For:

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

Attn: Dan Moir

MAMER

Authorized for release by: 9/2/2021 9:16:31 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 2/8/2022 8:45:41 AM

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.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Laboratory Job ID: 890-1083-1

SDG: WSPTPE012921045

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11

SDG: WSPTPE012921045

Qualifiers

GC VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected. U

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery Contains Free Liquid **CFL** 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) Limit of Detection (DoD/DOE) LOD Limit of Quantitation (DoD/DOE) LOQ

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

MDI Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number MPN 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

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1

SDG: WSPTPE012921045

Job ID: 890-1083-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1083-1

REVISION

The report being provided is a revision of the original report sent on 8/18/2021. The report (revision 0) is being revised due to .

Receipt

The samples were received on 8/9/2021 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 time was 4.6°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW04 (890-1083-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6372 and analytical batch 880-6378 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01A (890-1083-2) and (880-5187-A-1-C). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-5187-A-1-A MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6394 and analytical batch 880-6404 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.

Eurofins Xenco, Carlsbad 9/2/2021 (Rev. 1)

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Released to Imaging: 2/8/2022 8:45:41 AM

Client: WSP USA Inc.

Job ID: 890-1083-1

Project/Site: Elk Wallow 11 State #11

SDG: WSPTPE012921045

Client Sample ID: PH01

Date Collected: 08/05/21 13:30 Date Received: 08/09/21 17:00

Sample Depth: 1

Lab Sample ID: 890-1083-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
Toluene	0.120		0.00199	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
Ethylbenzene	0.0237		0.00199	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
m-Xylene & p-Xylene	0.170		0.00398	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
o-Xylene	0.00656		0.00199	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
Xylenes, Total	0.177		0.00398	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
Total BTEX	0.320		0.00398	mg/Kg		08/11/21 09:46	08/17/21 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			08/11/21 09:46	08/17/21 21:14	1
1,4-Difluorobenzene (Surr)	127		70 - 130			08/11/21 09:46	08/17/21 21:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2100		49.9	mg/Kg		08/11/21 16:32	08/12/21 16:38	1
Diesel Range Organics (Over C10-C28)	2480		49.9	mg/Kg		08/11/21 16:32	08/12/21 16:38	1
Oll Range Organics (Over C28-C36)	315		49.9	mg/Kg		08/11/21 16:32	08/12/21 16:38	1
Total TPH	4900		49.9	mg/Kg		08/11/21 16:32	08/12/21 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			08/11/21 16:32	08/12/21 16:38	1
o-Terphenyl	88		70 - 130			08/11/21 16:32	08/12/21 16:38	1

Method: 300.0 - Anions, Ion (Chromatography - Solul	ble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	271	4.95	mg/Kg			08/12/21 18:19	1

Client Sample ID: PH01A

Date Collected: 08/05/21 15:10

Date Received: 08/09/21 17:00

Lab Sample ID: 890-1083-2

Matrix: Solid

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
Toluene	0.0305		0.00200	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
Ethylbenzene	0.00943		0.00200	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
m-Xylene & p-Xylene	0.103		0.00400	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
o-Xylene	0.00428		0.00200	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
Xylenes, Total	0.107		0.00400	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
Total BTEX	0.147		0.00400	mg/Kg		08/17/21 15:15	08/17/21 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			08/17/21 15:15	08/17/21 21:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/17/21 15:15	08/17/21 21:35	1

Matrix: Solid

Lab Sample ID: 890-1083-2

08/12/21 18:36

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Client Sample ID: PH01A

Date Collected: 08/05/21 15:10 Date Received: 08/09/21 17:00

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	857		49.8	mg/Kg		08/11/21 16:32	08/12/21 16:59	1
Diesel Range Organics (Over C10-C28)	1340		49.8	mg/Kg		08/11/21 16:32	08/12/21 16:59	1
Oll Range Organics (Over C28-C36)	153		49.8	mg/Kg		08/11/21 16:32	08/12/21 16:59	1
Total TPH	2350		49.8	mg/Kg		08/11/21 16:32	08/12/21 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			08/11/21 16:32	08/12/21 16:59	1
o-Terphenyl	101		70 - 130			08/11/21 16:32	08/12/21 16:59	1
Method: 300.0 - Anions, Ion	Chromatogra	phy - Solu	ıble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH01B Lab Sample ID: 890-1083-3 Date Collected: 08/05/21 15:30 **Matrix: Solid**

169

5.04

mg/Kg

Date Received: 08/09/21 17:00

Sample Depth: 7

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
Toluene	0.0148		0.00201	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
Ethylbenzene	0.00434		0.00201	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
m-Xylene & p-Xylene	0.0185		0.00402	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
o-Xylene	0.00982		0.00201	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
Xylenes, Total	0.0283		0.00402	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
Total BTEX	0.0475		0.00402	mg/Kg		08/11/21 09:46	08/11/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/11/21 09:46	08/11/21 15:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/11/21 09:46	08/11/21 15:54	1
Method: 8015B NM - Diesel Ra		ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
					_ =		08/12/21 13:07	
Gasoline Range Organics	<50.0	U F2	50.0	mg/Kg		08/11/21 16:32		
(GRO)-C6-C10				9/9			00/12/21 13:07	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 13:07	
Diesel Range Organics (Over C10-C28)	<50.0 <50.0		50.0 50.0	0 0				
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U		mg/Kg		08/11/21 16:32	08/12/21 13:07	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.0	U	50.0	mg/Kg mg/Kg		08/11/21 16:32	08/12/21 13:07 08/12/21 13:07	1 1 1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<50.0 <50.0	U	50.0 50.0	mg/Kg mg/Kg		08/11/21 16:32 08/11/21 16:32	08/12/21 13:07 08/12/21 13:07 08/12/21 13:07	1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0	U	50.0 50.0 Limits	mg/Kg mg/Kg		08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 13:07 08/12/21 13:07 08/12/21 13:07 Analyzed 08/12/21 13:07	1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 **Recovery 93 96 **Thromatograms**	U Qualifier uphy - Solu	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg		08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 13:07 08/12/21 13:07 08/12/21 13:07 Analyzed 08/12/21 13:07	1 1 1 Dil Fac 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.0 <50.0 **Recovery 93 96 **Thromatograms**	U U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg mg/Kg	D	08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 13:07 08/12/21 13:07 08/12/21 13:07 Analyzed 08/12/21 13:07	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Date Received: 08/09/21 17:00

Job ID: 890-1083-1 SDG: WSPTPE012921045

Lab Sample ID: 890-1083-4

Client Sample ID: PH01C Date Collected: 08/06/21 11:05 Matrix: Solid

Sample Depth: 13

Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U		0.00200	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
Toluene	0.00772		0.00200	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
Ethylbenzene	0.00243		0.00200	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
m-Xylene & p-Xylene	0.0101		0.00401	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
o-Xylene	0.00407		0.00200	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
Xylenes, Total	0.0142		0.00401	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
Total BTEX	0.0243		0.00401	mg/Kg		08/11/21 09:46	08/11/21 16:15	1
Surrogate	%Recovery Qu	ualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			08/11/21 09:46	08/11/21 16:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/11/21 09:46	08/11/21 16:15	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 17:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 17:41	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/11/21 16:32	08/12/21 17:41	1
o-Terphenyl	98		70 - 130			08/11/21 16:32	08/12/21 17:41	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solu	ble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		4.99	mg/Kg			08/12/21 18:47	1

Lab Sample ID: 890-1083-5 **Client Sample ID: FS01** Date Collected: 08/06/21 12:20 Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
Toluene	0.00609		0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
m-Xylene & p-Xylene	0.00541		0.00403	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
o-Xylene	0.00327		0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
Xylenes, Total	0.00868		0.00403	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
Total BTEX	0.0148		0.00403	mg/Kg		08/11/21 09:46	08/11/21 16:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/11/21 09:46	08/11/21 16:35	1
1.4-Difluorobenzene (Surr)	102		70 - 130			08/11/21 09:46	08/11/21 16:35	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Client Sample ID: FS01 Lab Sample ID: 890-1083-5 Date Collected: 08/06/21 12:20

Matrix: Solid

Date Received: 08/09/21 17:00 Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:01	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/11/21 16:32	08/12/21 18:01	1
o-Terphenyl	110		70 - 130			08/11/21 16:32	08/12/21 18:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride 133 4.95 mg/Kg 08/12/21 18:52

Client Sample ID: FS02 Lab Sample ID: 890-1083-6

Date Collected: 08/06/21 12:22 **Matrix: Solid**

Date Received: 08/09/21 17:00

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
Toluene	0.00311		0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
Ethylbenzene	< 0.00202	U	0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
m-Xylene & p-Xylene	0.00489		0.00404	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
o-Xylene	0.00202		0.00202	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
Xylenes, Total	0.00691		0.00404	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
Total BTEX	0.0100		0.00404	mg/Kg		08/11/21 09:46	08/11/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/11/21 09:46	08/11/21 16:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/11/21 09:46	08/11/21 16:55	1
		ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)					
Analyte		Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 08/11/21 16:32		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	08/11/21 16:32	08/12/21 18:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	08/11/21 16:32		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32	08/12/21 18:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U	RL 49.9 49.9	mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32	08/12/21 18:22 08/12/21 18:22	1
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32	08/12/21 18:22 08/12/21 18:22 08/12/21 18:22	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	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	_ <u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 Prepared	08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 08/12/21 18:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <89.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U U	## RL 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 Analyzed	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	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.19	Qualifier U U U Qualifier	## A 49.9 49.9 49.9 49.9 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 Analyzed 08/12/21 18:22	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	## A 49.9 49.9 49.9 49.9 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 08/11/21 16:32 Prepared 08/11/21 16:32	08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 08/12/21 18:22 Analyzed 08/12/21 18:22	Dil Fac

Matrix: Solid

Lab Sample ID: 890-1083-7

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Client Sample ID: FS06

Date Collected: 08/06/21 12:40 Date Received: 08/09/21 17:00

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
Toluene	0.00298		0.00200	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 17:16	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/11/21 09:46	08/11/21 17:16	1

Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:43	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/11/21 16:32	08/12/21 18:43	1
o-Terphenyl	96		70 - 130			08/11/21 16:32	08/12/21 18:43	1

Method: 300.0 - Anions, Ion Cl	hromatography - Solub	ole					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520	5.00	mg/Kg			08/12/21 19:03	1

Client Sample ID: FS07 Date Collected: 08/06/21 12:45 Date Received: 08/09/21 17:00

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
Toluene	0.00236		0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 17:36	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/11/21 09:46	08/11/21 17:36	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1083-8

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1

SDG: WSPTPE012921045

Analyzed

Client Sample ID: FS07

Date Collected: 08/06/21 12:45 Date Received: 08/09/21 17:00

Sample Depth: 4

Lab Sample ID: 890-1083-8

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:04	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			08/11/21 16:32	08/12/21 19:04	1
o-Terphenyl	99		70 - 130			08/11/21 16:32	08/12/21 19:04	1

Chloride 85.1 4.97 mg/Kg 08/12/21 19:20 Lab Sample ID: 890-1083-9 **Client Sample ID: FS01**

RL

Result Qualifier

Unit

Prepared

Date Collected: 08/06/21 14:05 **Matrix: Solid**

Date Received: 08/09/21 17:00

Sample Depth: 7

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
Toluene	0.00229		0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 17:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130			08/11/21 09:46	08/11/21 17:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:25	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/11/21 16:32	08/12/21 19:25	1
o-Terphenyl	93		70 - 130			08/11/21 16:32	08/12/21 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	67.6	4.95	mg/Kg			08/12/21 19:25	1

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Dil Fac

Client: WSP USA Inc.

Job ID: 890-1083-1

Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Lab Sample ID: 890-1083-10

Date Collected: 08/06/21 15:15 Date Received: 08/09/21 17:00

Client Sample ID: FS03

Matrix: Solid

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/11/21 09:46	08/11/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 18:17	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/11/21 09:46	08/11/21 18:17	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 19:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 19:46	1
Total TPH	<49.8	U	49.8	mg/Kg		08/11/21 16:32	08/12/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			08/11/21 16:32	08/12/21 19:46	1
o-Terphenyl	95		70 - 130			08/11/21 16:32	08/12/21 19:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	600	5.02	mg/Kg			09/02/21 11:10	1

Client Sample ID: FS04 Date Collected: 08/06/21 15:20

Matrix: Solid

Lab Sample ID: 890-1083-11

Date Received: 08/09/21 17:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 20:28	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/11/21 09:46	08/11/21 20:28	1

Matrix: Solid

Lab Sample ID: 890-1083-11

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-1083-1

Project/Site: Elk Wallow 11 State #11

SDG: WSPTPE012921045

Client Sample ID: FS04

Date Collected: 08/06/21 15:20 Date Received: 08/09/21 17:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:06	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/11/21 16:32	08/12/21 20:06	1
o-Terphenyl	108		70 - 130			08/11/21 16:32	08/12/21 20:06	1

method: 300.0 - Anions, ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	574	5.02	mg/Kg			09/02/21 11:15	1

Client Sample ID: FS05

Date Collected: 08/06/21 15:25

Lab Sample ID: 890-1083-12

Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/11/21 09:46	08/11/21 20:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/11/21 09:46	08/11/21 20:48	1
Method: 8015B NM - Diese	I Range Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:27	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 16:32	08/12/21 20:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/11/21 16:32	08/12/21 20:27	1
o-Terphenyl	95		70 - 130			08/11/21 16:32	08/12/21 20:27	1

Method: 300.0 - Anions, Ion Cl	nromatography - Solul	ble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539	5.05	mg/Kg			08/12/21 19:52	1

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<u>5</u>

6

8

10

12

Client: WSP USA Inc. Job ID: 890-1083-1 SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

Client Sample ID: SW01 Lab Sample ID: 890-1083-13

Date Collected: 08/06/21 15:35 Matrix: Solid Date Received: 08/09/21 17:00

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 09:46	08/11/21 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/11/21 09:46	08/11/21 21:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/11/21 09:46	08/11/21 21:09	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 20:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 20:48	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 20:48	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 16:32	08/12/21 20:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/11/21 16:32	08/12/21 20:48	1
o-Terphenyl	109		70 - 130			08/11/21 16:32	08/12/21 20:48	1

Method: 300.0 - Anions, Ion Cl	hromatography	y - Soluble					
Analyte	Result Qu	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.1	4.98	mg/Kg			08/12/21 19:58	1

Lab Sample ID: 890-1083-14 **Client Sample ID: SW02** Date Collected: 08/06/21 15:37 Matrix: Solid

Date Received: 08/09/21 17:00

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/11/21 09:46	08/11/21 21:29	1
1.4-Difluorobenzene (Surr)	105		70 - 130			08/11/21 09:46	08/11/21 21:29	1

Client: WSP USA Inc.

Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Client Sample ID: SW02 Lab Sample ID: 890-1083-14 **Matrix: Solid**

Date Collected: 08/06/21 15:37 Date Received: 08/09/21 17:00

185

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 15:45	1
(GRO)-C6-C10	-40.0		40.0			00/40/04 40:04	00/44/04 45:45	4
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 15:45	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 15:45	1
Total TPH	<49.9	U	49.9	mg/Kg		08/12/21 10:01	08/14/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/12/21 10:01	08/14/21 15:45	1
o-Terphenyl	130		70 - 130			08/12/21 10:01	08/14/21 15:45	1

Client Sample ID: SW03 Lab Sample ID: 890-1083-15

4.95

mg/Kg

Date Collected: 08/06/21 15:40 **Matrix: Solid**

Date Received: 08/09/21 17:00

Sample Depth: 0 - 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:49	
Toluene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:49	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:49	1
m-Xylene & p-Xylene	< 0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:49	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/11/21 09:46	08/11/21 21:49	
Xylenes, Total	< 0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:49	
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 09:46	08/11/21 21:49	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			08/11/21 09:46	08/11/21 21:49	
1,4-Difluorobenzene (Surr)	101		70 - 130			08/11/21 09:46	08/11/21 21:49	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Mathad: 8015R NM - Diesal P	ango Organi	ice (DRO)	(GC)					
Analyte Gasoline Range Organics	_	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 08/12/21 10:01	Analyzed 08/14/21 16:06	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL		<u>D</u>		08/14/21 16:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	08/12/21 10:01	08/14/21 16:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	08/12/21 10:01	08/14/21 16:06 08/14/21 16:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U	49.8 49.8	mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01 08/12/21 10:01	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	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 U	49.8 49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 08/12/21 10:01	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 08/14/21 16:06	
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 U	## ## ## ## ## ## ## ## ## ## ## ## ##	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 Prepared	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 Analyzed	
Method: 8015B NM - Diesel R 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 Method: 300.0 - Anions, Ion C	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	Qualifier U U U Qualifier	## A 49.8 49.8 49.8 49.8 49.8 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 Prepared 08/12/21 10:01	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 Analyzed 08/14/21 16:06	
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 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <107 107 119 Chromatogra	Qualifier U U U Qualifier	## A 49.8 49.8 49.8 49.8 49.8 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 08/12/21 10:01 Prepared 08/12/21 10:01	08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 08/14/21 16:06 Analyzed 08/14/21 16:06	Dil Fac

Eurofins Xenco, Carlsbad

08/12/21 20:03

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Client Sample ID: SW04

Date Collected: 08/06/21 15:45 Date Received: 08/09/21 17:00

Sample Depth: 0 - 4

Lab	Sample	ID:	890- 1	80	13-1	6
			Matr	ix:	Sol	id

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/11/21 11:25	08/11/21 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			08/11/21 11:25	08/11/21 13:01	1
1,4-Difluorobenzene (Surr)	128		70 - 130			08/11/21 11:25	08/11/21 13:01	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 15:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 15:32	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			08/11/21 10:19	08/11/21 15:32	1
o-Terphenyl	120		70 - 130			08/11/21 10:19	08/11/21 15:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	431 F1	5.05	mg/Kg			08/11/21 17:13	1			

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				t Surrogate Recove	CIY (A
-		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		_
880-5187-A-1-A MS	Matrix Spike	127	136 S1+		
880-5187-A-1-B MSD	Matrix Spike Duplicate	113	106		
890-1077-A-16-B MS	Matrix Spike	275 S1+	106		
890-1077-A-16-C MSD	Matrix Spike Duplicate	152 S1+	128		
390-1083-1	PH01	170 S1+	127		
390-1083-2	PH01A	107	100		
390-1083-3	PH01B	95	96		
890-1083-4	PH01C	101	104		
890-1083-5	FS01	102	102		
390-1083-6	FS02	108	106		
390-1083-7	FS06	111	102		
390-1083-8	FS07	107	106		
390-1083-9	FS01	113	101		
890-1083-10	FS03	118	106		
890-1083-11	FS04	112	104		
890-1083-12	FS05	115	102		
390-1083-13	SW01	112	106		
390-1083-14	SW02	113	105		
390-1083-15	SW03	132 S1+	101		
390-1083-16	SW04	155 S1+	128		
LCS 880-6315/1-A	Lab Control Sample	133 S1+	129		
LCS 880-6372/1-A	Lab Control Sample	106	96		
LCS 880-6673/1-A	Lab Control Sample	95	100		
LCSD 880-6315/2-A	Lab Control Sample Dup	128	123		
LCSD 880-6372/2-A	Lab Control Sample Dup	104	98		
LCSD 880-6673/2-A	Lab Control Sample Dup	108	108		
MB 880-6281/5-A	Method Blank	80	98		
MB 880-6315/5-A	Method Blank	83	107		
MB 880-6372/5-A	Method Blank	119	107		
MB 880-6673/5-A	Method Blank	97	105		
M-C/C 100-000 aiv	MEUIOU DIANK	91	100		
Surrogate Legend					

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-		Percent Surrogate Recovery (Acceptance Limits)						
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID							
890-1083-1 MS	PH01							
890-1083-1 MSD	PH01							
Surrogate Legend								
BFB = 4-Bromofluoro	obenzene (Surr)							
DFBZ = 1,4-Difluorol	benzene (Surr)							

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1

SDG: WSPTPE012921045

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

Matrix: Solid Prep Type: Total/NA

			Pe
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-4997-A-1-E MS	Matrix Spike	91	95
880-4997-A-1-F MSD	Matrix Spike Duplicate	90	96
880-5005-A-1-G MS	Matrix Spike	92	94
880-5005-A-1-H MSD	Matrix Spike Duplicate	88	93
890-1083-1	PH01	126	88
890-1083-2	PH01A	110	101
890-1083-3	PH01B	93	96
890-1083-3 MS	PH01B	96	86
890-1083-3 MSD	PH01B	82	76
890-1083-4	PH01C	96	98
890-1083-5	FS01	108	110
890-1083-6	FS02	112	115
890-1083-7	FS06	92	96
890-1083-8	FS07	98	99
890-1083-9	FS01	91	93
890-1083-10	FS03	95	95
890-1083-11	FS04	107	108
890-1083-12	FS05	93	95
890-1083-13	SW01	108	109
890-1083-14	SW02	116	130
890-1083-15	SW03	107	119
890-1083-16	SW04	104	120
LCS 880-6382/2-A	Lab Control Sample	78	80
LCS 880-6415/2-A	Lab Control Sample	84	80
LCS 880-6430/2-A	Lab Control Sample	100	109
LCSD 880-6382/3-A	Lab Control Sample Dup	83	87
LCSD 880-6415/3-A	Lab Control Sample Dup	89	83
LCSD 880-6430/3-A	Lab Control Sample Dup	94	98
MB 880-6382/1-A	Method Blank	83	98
MB 880-6415/1-A	Method Blank	107	109
	Method Blank	111	130

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

3

4

6

8

10

12

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6281/5-A

Matrix: Solid

Analysis Batch: 6278

Client	Sample	ID:	Meth	od l	Blar	۱k
	Dr	on '	Typo	Tot	al/N	1 /

Prep Batch: 6281

	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/10/21 08:43	08/10/21 12:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/10/21 08:43	08/10/21 12:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	08/10/21 08:43	08/10/21 12:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/21 08:43	08/10/21 12:59	1

Lab Sample ID: MB 880-6315/5-A

Matrix: Solid

Analysis Batch: 6278

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

Prep Batch: 6315

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/10/21 11:34	08/11/21 02:21	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/10/21 11:34	08/11/21 02:21	1

мв мв	
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	$08/10/21\ 11:34$	8/11/21 02:21	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/10/21 11:34 08	8/11/21 02:21	1

Lab Sample ID: LCS 880-6315/1-A

Matrix: Solid

Analysis Batch: 6278

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

Prep Batch: 6315

	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit D	%Rec	Limits	
Benzene	0.100	0.1255	mg/Kg	126	70 - 130	
Toluene	0.100	0.1164	mg/Kg	116	70 - 130	
Ethylbenzene	0.100	0.1218	mg/Kg	122	70 - 130	
m-Xylene & p-Xylene	0.200	0.2407	mg/Kg	120	70 - 130	
o-Xylene	0.100	0.1207	mg/Kg	121	70 - 130	

LCS	LCS
LUS	LUS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-6315/2-A

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6315

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1249		mg/Kg		125	70 - 130	0	35
Toluene	0.100	0.1135		mg/Kg		113	70 - 130	3	35
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	7	35
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	123	70 - 130

Lab Sample ID: 890-1077-A-16-B MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 6278

Matrix: Solid Prep Type: Total/NA Prep Batch: 6315 **Analysis Batch: 6278** Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene <0.00202 U F1 0.0994 0.06775 F1 70 - 130 mg/Kg 68 Toluene 0.0994 <0.00202 U F2 F1 0.06321 F1 mg/Kg 64 70 - 130 Ethylbenzene <0.00202 U 0.0994 0.07514 mg/Kg 76 70 - 130 m-Xylene & p-Xylene <0.00403 U 0.199 0.1446 mg/Kg 73 70 - 130 <0.00202 U 0.0994 0.07608 77 o-Xylene mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	275	S1+	70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1077-A-16-C MSD

Matrix: Solid

Analysis Batch: 6278

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

Prep Batch: 6315

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.08572		mg/Kg		86	70 - 130	23	35
Toluene	<0.00202	U F2 F1	0.0998	0.09496	F2	mg/Kg		95	70 - 130	40	35
Ethylbenzene	<0.00202	U	0.0998	0.09295		mg/Kg		93	70 - 130	21	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1820		mg/Kg		91	70 - 130	23	35
o-Xylene	<0.00202	U	0.0998	0.09425		mg/Kg		94	70 - 130	21	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130
1,4-Difluorobenzene (Surr)	128		70 - 130

Lab Sample ID: MB 880-6372/5-A

Matrix: Solid

Analysis Batch: 6378

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

Prep Batch: 6372

MB MB

Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	08/11/21 09:46	08/11/21 14:44	1
Toluene	<0.00200	U	0.00200	mg/Kg	08/11/21 09:46	08/11/21 14:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	08/11/21 09:46	08/11/21 14:44	1

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Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

Lab Sample ID: MB 880-6372/5-A

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Prep Batch: 6372	

mg/Kg

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/11/21 09:46 08/11/21 14:44 o-Xylene <0.00200 U 0.00200 mg/Kg 08/11/21 09:46 08/11/21 14:44 Xylenes, Total <0.00400 U 0.00400 mg/Kg Total BTEX <0.00400 U 0.00400 08/11/21 09:46 08/11/21 14:44

MB MB

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119	70 - 130	08/11/21 09:46	08/11/21 14:44	1
1.4-Difluorobenzene (Surr)	105	70 - 130	08/11/21 09:46	08/11/21 14:44	1

Lab Sample ID: LCS 880-6372/1-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 6378 Prep Batch: 6372

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08662		mg/Kg		87	70 - 130	
Toluene	0.100	0.08557		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08852		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09283		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-6372/2-A

Matrix: Solid

Analysis Batch: 6378

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

Prep Batch: 6372

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09891		mg/Kg		99	70 - 130	13	35
Toluene	0.100	0.08932		mg/Kg		89	70 - 130	4	35
Ethylbenzene	0.100	0.09118		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130	2	35
o-Xylene	0.100	0.09464		mg/Kg		95	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-1083-1 MS

Matrix: Solid

Analysis Batch: 6378

Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 6372

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.009146		mg/Kg				
Toluene	0.120		0.0998	<0.00200	U	mg/Kg				
Ethylbenzene	0.0237		0.0998	<0.00200	U	mg/Kg				
m-Xylene & p-Xylene	0.170		0.200	0.009463		mg/Kg				

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

MS MS

Lab Sample ID: 890-1083-1 MS **Client Sample ID: PH01 Prep Type: Total/NA Matrix: Solid Analysis Batch: 6378** Prep Batch: 6372 MS MS Sample Sample Spike %Rec.

Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits 0.00656 o-Xylene 0.0998 0.002881 mg/Kg

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-1083-1 MSD **Matrix: Solid**

Analysis Batch: 6378

Sample Sample Spike MSD MSD %Rec.

Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit D %Rec <0.00199 U Benzene 0.101 0.01367 mg/Kg Toluene 0.120 0.101 0.1755 mg/Kg Ethylbenzene 0.0237 <0.00202 U mg/Kg 0.101 m-Xylene & p-Xylene 0.170 0.202 0.03551 mg/Kg 0.00656 o-Xylene 0.101 <0.00202 U mg/Kg MSD MSD

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-6673/5-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

MD MD

Analysis Batch: 6616

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/17/21 15:15	08/17/21 18:06	1

	IVID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/17/21 15:15	08/17/21 18:06	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/17/21 15:15	08/17/21 18:06	1

Lab Sample ID: LCS 880-6673/1-A

Matrix: Solid

Analysis Batch: 6616				Prep Batch:				
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09037		mg/Kg		90	70 - 130	
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.09688		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1732		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.08430		mg/Kg		84	70 - 130	

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RPD

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 6372

Prep Batch: 6673

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

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

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

Lab Sample ID: LCSD 880-6673/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid** Prep Type: Total/NA Prep Batch: 6673

Analysis Batch: 6616

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	9	35
Toluene	0.100	0.1116		mg/Kg		112	70 - 130	11	35
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	11	35
o-Xylene	0.100	0.09761		mg/Kg		98	70 - 130	15	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 108 70 - 130

Lab Sample ID: 880-5187-A-1-A MS

Matrix: Solid

Analysis Batch: 6616

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6673

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.1073		mg/Kg		105	70 - 130	
Toluene	<0.00202	U	0.101	0.1191		mg/Kg		118	70 - 130	
Ethylbenzene	<0.00202	U	0.101	0.1178		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.202	0.2154		mg/Kg		107	70 - 130	
o-Xylene	<0.00202	U	0.101	0.1010		mg/Kg		100	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130

Lab Sample ID: 880-5187-A-1-B MSD

Matrix: Solid

Analysis Batch: 6616

Client Sample	ID:	Matrix	Spike	Duplicate
		Dra	- T	Total/NIA

Prep Type: Total/NA Prep Batch: 6673

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0994	0.07874		mg/Kg		78	70 - 130	31	35
Toluene	<0.00202	U	0.0994	0.09288		mg/Kg		93	70 - 130	25	35
Ethylbenzene	<0.00202	U	0.0994	0.09191		mg/Kg		92	70 - 130	25	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1542		mg/Kg		78	70 - 130	33	35
o-Xylene	<0.00202	U	0.0994	0.07655		mg/Kg		77	70 - 130	28	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

Lab Sample ID: MB 880-6382/1-A

Matrix: Solid

Analysis Batch: 6361

Client	Sample	ID:	Meth	od	В	lan	ık
	_	_	_	_			_

Prep Type: Total/NA

Prep Batch: 6382

	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		08/11/21 10:19	08/11/21 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/11/21 10:19	08/11/21 12:00	1
o-Terphenyl	98		70 - 130	08/11/21 10:19	08/11/21 12:00	1

Lab Sample ID: LCS 880-6382/2-A

Matrix: Solid

Analysis Batch: 6361 Spike LCS LCS

%Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 782.0 mg/Kg 78 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 711.3 mg/Kg 71 70 - 130

C10-C28)

LCS LCS

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

Lab Sample ID: LCSD 880-6382/3-A

Matrix: Solid

Analysis Batch: 6361

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

Client Sample ID: Lab Control Sample

Prep Batch: 6382

Prep Type: Total/NA Prep Batch: 6382

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 823.7 82 70 - 130 5 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 775.5 mg/Kg 78 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Quality	ner Limits
1-Chlorooctane	83	70 - 130
o-Terphenyl	87	70 - 130

Lab Sample ID: 880-4997-A-1-E MS

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: Matrix Spike
Drop Type, Total/NA

Prep Type: Total/NA Prep Batch: 6382

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	922.4		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	969.6		mg/Kg		97	70 - 130	

Project/Site: Elk Wallow 11 State #11

Client: WSP USA Inc.

Job ID: 890-1083-1

SDG: WSPTPE012921045

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

Lab Sample ID: 880-4997-A-1-E MS

Matrix: Solid

Analysis Batch: 6361

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6382

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 95 70 - 130

Lab Sample ID: 880-4997-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 6436

Analysis Batch: 6361

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6382

RPD MSD MSD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 998 922.8 mg/Kg 91 70 - 130 0 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 961.3 mg/Kg 96 70 - 130 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

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

Prep Batch: 6415

MB MB Result Qualifier Unit Analyte RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/11/21 16:32 08/12/21 12:03 (GRO)-C6-C10 <50.0 U 50.0 Diesel Range Organics (Over mg/Kg 08/11/21 16:32 08/12/21 12:03 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/11/21 16:32 08/12/21 12:03 Total TPH <50.0 U 50.0 mg/Kg 08/11/21 16:32 08/12/21 12:03

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/11/21 16:32	08/12/21 12:03	1
o-Terphenyl	109		70 - 130	08/11/21 16:32	08/12/21 12:03	1

Lab Sample ID: LCS 880-6415/2-A

Lab Sample ID: MB 880-6415/1-A

Matrix: Solid

Analysis Batch: 6436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 6415

LCS LCS Spike %Rec. Added Analyte Result Qualifier Limits Unit D %Rec Gasoline Range Organics 1000 805.3 81 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 859.6 mg/Kg 86 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenvl	80		70 - 130

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

Lab Sample ID: LCSD 880-6415/3-A **Matrix: Solid**

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 6415 RPD %Rec.

LCSD LCSD Spike Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D Gasoline Range Organics 1000 893.0 mg/Kg 89 70 - 130 10 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 898.5 90 70 - 130 mg/Kg 4 20

C10-C28)

Analysis Batch: 6436

LCSD LCSD Limits Surrogate %Recovery Qualifier 1-Chlorooctane 70 - 130 89 70 - 130 o-Terphenyl 83

Client Sample ID: PH01B Lab Sample ID: 890-1083-3 MS **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6436 Prep Batch: 6415 Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier D %Rec Limits Analyte Unit Gasoline Range Organics <50.0 U F2 995 1016 102 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 995 903.1 mg/Kg 89 70 - 130 C10-C28)

MS MS Qualifier Surrogate %Recovery Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 890-1083-3 MSD

Client Sample ID: PH01B **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6436** Prep Batch: 6415

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U F2 998 806.5 F2 81 20 70 - 130 23 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 801.5 mg/Kg 78 70 - 130 12 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 76 70 - 130

Lab Sample ID: MB 880-6430/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6567 Prep Batch: 6430 MD MD

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1

Dil Fac

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

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

MB MB %Recovery Qualifier

Lab Sample ID: MB 880-6430/1-A

Matrix: Solid

Surrogate

Analysis Batch: 6567

Client Sample ID: Method Blank

Prep Batch: 6430

Prep Type: Total/NA

Analyzed

Prepared

1-Chlorooctane 111 70 - 130 08/12/21 10:01 08/14/21 11:17 o-Terphenyl 130 70 - 130 08/12/21 10:01 08/14/21 11:17

Limits

1000

Lab Sample ID: LCS 880-6430/2-A

Analysis Batch: 6567

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Prep Batch: 6430

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 871.6 mg/Kg 87 70 - 130

861.9

mg/Kg

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Analyte

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 100 70 - 130 70 - 130 o-Terphenyl 109

Lab Sample ID: LCSD 880-6430/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 6567

Prep Type: Total/NA

86

70 - 130

Prep Batch: 6430

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Gasoline Range Organics 1000 894.4 mg/Kg 89 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 70 - 130 786.5 mg/Kg 79 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 94 o-Terphenyl 98 70 - 130

Lab Sample ID: 880-5005-A-1-G MS

Matrix: Solid

Analysis Batch: 6567

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

Prep Batch: 6430

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec <50.0 U 995 883.2 87 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 995 817.7 mg/Kg 79 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 92 70 - 130 o-Terphenyl 94 70 - 130

Client: WSP USA Inc. Job ID: 890-1083-1 SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

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

Lab Sample ID: 880-5005-A-1-H MSD **Client Sample ID: Matrix Spike Duplicate**

MSD MSD

862.3

789.0

Result Qualifier

Spike

Added

998

998

Matrix: Solid

Prep Type: Total/NA Prep Batch: 6430

Analysis Batch: 6567 Sample Sample Result Qualifier Analyte

%Rec. **RPD** %Rec Limits RPD Limit 85 70 - 130 2 20

(GRO)-C6-C10 Diesel Range Organics (Over

Gasoline Range Organics

Unit mg/Kg 76 70 - 130 20

C10-C28)

MSD MSD

<50.0 U

<50.0 U

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88 93 70 - 130 o-Terphenyl

mg/Kg

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6394/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 6404

Prep Type: Soluble

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 08/11/21 16:59

Lab Sample ID: LCS 880-6394/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6404

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 251.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-6394/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6404

LCSD LCSD RPD Spike %Rec. **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.5 mg/Kg 102 90 - 110

Lab Sample ID: 890-1083-16 MS

Client Sample ID: SW04 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6404

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 431 F1 253 632.6 F1 mg/Kg 90 - 110

Lab Sample ID: 890-1083-16 MSD Client Sample ID: SW04 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6404

Alialysis Dalcii. 0404											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	431	F1	253	649.2	F1	mg/Kg		87	90 - 110	3	20

Client: WSP USA Inc. Job ID: 890-1083-1 SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-6324/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6439

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 5.00 08/12/21 17:30 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-6324/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6439

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Chloride 258.2 mg/Kg 103

Lab Sample ID: LCSD 880-6324/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6439

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit Chloride 250 258.6 103 90 - 110 20 mg/Kg

Lab Sample ID: 890-1083-7 MS Client Sample ID: FS06 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6439

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 763.2 520 250 mg/Kg 90 - 110

Lab Sample ID: 890-1083-7 MSD Client Sample ID: FS06 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6439

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 520 250 752.7 93 mg/Kg 90 - 110

Lab Sample ID: MB 880-7406/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7417

MB MB

Result Qualifier Analyte RL Unit D Analyzed Dil Fac Prepared 5.00 09/01/21 22:21 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-7406/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7417

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 260.0 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-7406/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7417

Spike LCSD LCSD %Rec. **RPD** Added Limits **RPD** Analyte Result Qualifier Unit D %Rec Limit Chloride 250 90 - 110 259.5 mg/Kg 104 20

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11

SDG: WSPTPE012921045

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1203-A-1-B MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid Analysis Batch: 7417

Sample Sample Spike MS MS %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits Chloride 249 12.1 272.8 mg/Kg 105 90 - 110

Lab Sample ID: 890-1203-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7417

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 12.1 249 272.9 105 90 - 110 0 mg/Kg

Job ID: 890-1083-1 Client: WSP USA Inc. SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

GC VOA

Analysis Batch: 6278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Total/NA	Solid	8021B	6315
MB 880-6281/5-A	Method Blank	Total/NA	Solid	8021B	6281
MB 880-6315/5-A	Method Blank	Total/NA	Solid	8021B	6315
LCS 880-6315/1-A	Lab Control Sample	Total/NA	Solid	8021B	6315
LCSD 880-6315/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6315
890-1077-A-16-B MS	Matrix Spike	Total/NA	Solid	8021B	6315
890-1077-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6315

Prep Batch: 6281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6281/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 6315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Total/NA	Solid	5035	
MB 880-6315/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6315/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6315/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1077-A-16-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1077-A-16-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Total/NA	Solid	5035	
890-1083-3	PH01B	Total/NA	Solid	5035	
890-1083-4	PH01C	Total/NA	Solid	5035	
890-1083-5	FS01	Total/NA	Solid	5035	
890-1083-6	FS02	Total/NA	Solid	5035	
890-1083-7	FS06	Total/NA	Solid	5035	
890-1083-8	FS07	Total/NA	Solid	5035	
890-1083-9	FS01	Total/NA	Solid	5035	
890-1083-10	FS03	Total/NA	Solid	5035	
890-1083-11	FS04	Total/NA	Solid	5035	
890-1083-12	FS05	Total/NA	Solid	5035	
890-1083-13	SW01	Total/NA	Solid	5035	
890-1083-14	SW02	Total/NA	Solid	5035	
890-1083-15	SW03	Total/NA	Solid	5035	
MB 880-6372/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6372/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6372/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1083-1 MS	PH01	Total/NA	Solid	5035	
890-1083-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 6378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-3	PH01B	Total/NA	Solid	8021B	6372
890-1083-4	PH01C	Total/NA	Solid	8021B	6372
890-1083-5	FS01	Total/NA	Solid	8021B	6372
890-1083-6	FS02	Total/NA	Solid	8021B	6372
890-1083-7	FS06	Total/NA	Solid	8021B	6372
890-1083-8	FS07	Total/NA	Solid	8021B	6372

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1 SDG: WSPTPE012921045

GC VOA (Continued)

Analysis Batch: 6378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-9	FS01	Total/NA	Solid	8021B	6372
890-1083-10	FS03	Total/NA	Solid	8021B	6372
890-1083-11	FS04	Total/NA	Solid	8021B	6372
890-1083-12	FS05	Total/NA	Solid	8021B	6372
890-1083-13	SW01	Total/NA	Solid	8021B	6372
890-1083-14	SW02	Total/NA	Solid	8021B	6372
890-1083-15	SW03	Total/NA	Solid	8021B	6372
MB 880-6372/5-A	Method Blank	Total/NA	Solid	8021B	6372
LCS 880-6372/1-A	Lab Control Sample	Total/NA	Solid	8021B	6372
LCSD 880-6372/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6372
890-1083-1 MS	PH01	Total/NA	Solid	8021B	6372
890-1083-1 MSD	PH01	Total/NA	Solid	8021B	6372

Analysis Batch: 6616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Total/NA	Solid	8021B	6372
890-1083-2	PH01A	Total/NA	Solid	8021B	6673
MB 880-6673/5-A	Method Blank	Total/NA	Solid	8021B	6673
LCS 880-6673/1-A	Lab Control Sample	Total/NA	Solid	8021B	6673
LCSD 880-6673/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6673
880-5187-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	6673
880-5187-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6673

Prep Batch: 6673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-2	PH01A	Total/NA	Solid	5035	
MB 880-6673/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6673/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6673/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5187-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-5187-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 6361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Total/NA	Solid	8015B NM	6382
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015B NM	6382
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6382
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6382
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6382
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6382

Prep Batch: 6382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Total/NA	Solid	8015NM Prep	
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Job ID: 890-1083-1 Client: WSP USA Inc. SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

GC Semi VOA

Prep Batch: 6415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Total/NA	Solid	8015NM Prep	
890-1083-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1083-3	PH01B	Total/NA	Solid	8015NM Prep	
890-1083-4	PH01C	Total/NA	Solid	8015NM Prep	
890-1083-5	FS01	Total/NA	Solid	8015NM Prep	
890-1083-6	FS02	Total/NA	Solid	8015NM Prep	
890-1083-7	FS06	Total/NA	Solid	8015NM Prep	
890-1083-8	FS07	Total/NA	Solid	8015NM Prep	
890-1083-9	FS01	Total/NA	Solid	8015NM Prep	
890-1083-10	FS03	Total/NA	Solid	8015NM Prep	
890-1083-11	FS04	Total/NA	Solid	8015NM Prep	
890-1083-12	FS05	Total/NA	Solid	8015NM Prep	
890-1083-13	SW01	Total/NA	Solid	8015NM Prep	
MB 880-6415/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6415/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1083-3 MS	PH01B	Total/NA	Solid	8015NM Prep	
890-1083-3 MSD	PH01B	Total/NA	Solid	8015NM Prep	

Prep Batch: 6430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-14	SW02	Total/NA	Solid	8015NM Prep	
890-1083-15	SW03	Total/NA	Solid	8015NM Prep	
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Total/NA	Solid	8015B NM	6415
890-1083-2	PH01A	Total/NA	Solid	8015B NM	6415
890-1083-3	PH01B	Total/NA	Solid	8015B NM	6415
890-1083-4	PH01C	Total/NA	Solid	8015B NM	6415
890-1083-5	FS01	Total/NA	Solid	8015B NM	6415
890-1083-6	FS02	Total/NA	Solid	8015B NM	6415
890-1083-7	FS06	Total/NA	Solid	8015B NM	6415
890-1083-8	FS07	Total/NA	Solid	8015B NM	6415
890-1083-9	FS01	Total/NA	Solid	8015B NM	6415
890-1083-10	FS03	Total/NA	Solid	8015B NM	6415
890-1083-11	FS04	Total/NA	Solid	8015B NM	6415
890-1083-12	FS05	Total/NA	Solid	8015B NM	6415
890-1083-13	SW01	Total/NA	Solid	8015B NM	6415
MB 880-6415/1-A	Method Blank	Total/NA	Solid	8015B NM	6415
LCS 880-6415/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6415
LCSD 880-6415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6415
890-1083-3 MS	PH01B	Total/NA	Solid	8015B NM	6415
890-1083-3 MSD	PH01B	Total/NA	Solid	8015B NM	6415

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

GC Semi VOA

Analysis Batch: 6567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-14	SW02	Total/NA	Solid	8015B NM	6430
890-1083-15	SW03	Total/NA	Solid	8015B NM	6430
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015B NM	6430
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6430
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6430
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	6430
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6430

HPLC/IC

Leach Batch: 6324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Soluble	Solid	DI Leach	_
890-1083-2	PH01A	Soluble	Solid	DI Leach	
890-1083-3	PH01B	Soluble	Solid	DI Leach	
890-1083-4	PH01C	Soluble	Solid	DI Leach	
890-1083-5	FS01	Soluble	Solid	DI Leach	
890-1083-6	FS02	Soluble	Solid	DI Leach	
890-1083-7	FS06	Soluble	Solid	DI Leach	
890-1083-8	FS07	Soluble	Solid	DI Leach	
890-1083-9	FS01	Soluble	Solid	DI Leach	
890-1083-12	FS05	Soluble	Solid	DI Leach	
890-1083-13	SW01	Soluble	Solid	DI Leach	
890-1083-14	SW02	Soluble	Solid	DI Leach	
890-1083-15	SW03	Soluble	Solid	DI Leach	
MB 880-6324/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6324/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6324/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1083-7 MS	FS06	Soluble	Solid	DI Leach	
890-1083-7 MSD	FS06	Soluble	Solid	DI Leach	

Leach Batch: 6394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Soluble	Solid	DI Leach	
MB 880-6394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1083-16 MS	SW04	Soluble	Solid	DI Leach	
890-1083-16 MSD	SW04	Soluble	Solid	DI Leach	

Analysis Batch: 6404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-16	SW04	Soluble	Solid	300.0	6394
MB 880-6394/1-A	Method Blank	Soluble	Solid	300.0	6394
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	300.0	6394
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6394
890-1083-16 MS	SW04	Soluble	Solid	300.0	6394
890-1083-16 MSD	SW04	Soluble	Solid	300.0	6394

Job ID: 890-1083-1 Client: WSP USA Inc. SDG: WSPTPE012921045 Project/Site: Elk Wallow 11 State #11

HPLC/IC

Analysis Batch: 6439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-1	PH01	Soluble	Solid	300.0	6324
890-1083-2	PH01A	Soluble	Solid	300.0	6324
890-1083-3	PH01B	Soluble	Solid	300.0	6324
890-1083-4	PH01C	Soluble	Solid	300.0	6324
890-1083-5	FS01	Soluble	Solid	300.0	6324
890-1083-6	FS02	Soluble	Solid	300.0	6324
890-1083-7	FS06	Soluble	Solid	300.0	6324
890-1083-8	FS07	Soluble	Solid	300.0	6324
890-1083-9	FS01	Soluble	Solid	300.0	6324
890-1083-12	FS05	Soluble	Solid	300.0	6324
890-1083-13	SW01	Soluble	Solid	300.0	6324
890-1083-14	SW02	Soluble	Solid	300.0	6324
890-1083-15	SW03	Soluble	Solid	300.0	6324
MB 880-6324/1-A	Method Blank	Soluble	Solid	300.0	6324
LCS 880-6324/2-A	Lab Control Sample	Soluble	Solid	300.0	6324
LCSD 880-6324/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6324
890-1083-7 MS	FS06	Soluble	Solid	300.0	6324
890-1083-7 MSD	FS06	Soluble	Solid	300.0	6324

Leach Batch: 7406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-10	FS03	Soluble	Solid	DI Leach	 :
890-1083-11	FS04	Soluble	Solid	DI Leach	
MB 880-7406/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7406/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7406/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1203-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1203-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 7417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1083-10	FS03	Soluble	Solid	300.0	7406
890-1083-11	FS04	Soluble	Solid	300.0	7406
MB 880-7406/1-A	Method Blank	Soluble	Solid	300.0	7406
LCS 880-7406/2-A	Lab Control Sample	Soluble	Solid	300.0	7406
LCSD 880-7406/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7406
890-1203-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	7406
890-1203-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7406

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Client Sample ID: PH01

Date Collected: 08/05/21 13:30

Date Received: 08/09/21 17:00

Job ID: 890-1083-1 SDG: WSPTPE012921045

Lab Sample ID: 890-1083-1

Matrix: Solid

XEN MID

Batch Batch Dilution Batch **Prepared** Method or Analyzed Analyst **Prep Type** Type Run **Factor** Number Lab Total/NA 5035 08/11/21 09:46 MR XEN MID Prep Total/NA 8021B 6616 08/17/21 21:14 KL Analysis 1 XEN MID Total/NA Prep 8015NM Prep 6415 08/11/21 16:32 DM **XEN MID** Total/NA 8015B NM Analysis 1 6436 08/12/21 16:38 AJ XEN MID Soluble 6324 08/10/21 12:01 CH XEN MID Leach DI Leach

Client Sample ID: PH01A Lab Sample ID: 890-1083-2

6439 08/12/21 18:19 CH

1

Date Collected: 08/05/21 15:10 **Matrix: Solid**

Date Received: 08/09/21 17:00

Analysis

300.0

Soluble

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6673	08/17/21 15:15	KL	XEN MID
Total/NA	Analysis	8021B		1	6616	08/17/21 21:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:36	CH	XEN MID

Client Sample ID: PH01B Lab Sample ID: 890-1083-3

Date Collected: 08/05/21 15:30 Matrix: Solid Date Received: 08/09/21 17:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 15:54	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 13:07	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:41	CH	XEN MID

Lab Sample ID: 890-1083-4 **Client Sample ID: PH01C** Date Collected: 08/06/21 11:05 Matrix: Solid

Date Received: 08/09/21 17:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 16:15	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:47	CH	XEN MID

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Client Sample ID: FS01 Date Collected: 08/06/21 12:20

Date Received: 08/09/21 17:00

SDG: WSPTPE012921045

Job ID: 890-1083-1

Lab Sample ID: 890-1083-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 16:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 18:01	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:52	CH	XEN MID

Lab Sample ID: 890-1083-6 **Client Sample ID: FS02** Date Collected: 08/06/21 12:22 **Matrix: Solid**

Date Received: 08/09/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 16:55	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 18:58	CH	XEN MID

Lab Sample ID: 890-1083-7 **Client Sample ID: FS06** Date Collected: 08/06/21 12:40 **Matrix: Solid**

Date Received: 08/09/21 17:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 17:16	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 19:03	CH	XEN MID

Client Sample ID: FS07 Lab Sample ID: 890-1083-8 Date Collected: 08/06/21 12:45 Matrix: Solid

Date Received: 08/09/21 17:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 17:36	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 19:20	CH	XEN MID

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #11

Client Sample ID: FS01 Date Collected: 08/06/21 14:05

Date Received: 08/09/21 17:00

SDG: WSPTPE012921045

Lab Sample ID: 890-1083-9

Matrix: Solid

Job ID: 890-1083-1

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 17:57	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 19:25	CH	XEN MID

Client Sample ID: FS03

Date Collected: 08/06/21 15:15 Date Received: 08/09/21 17:00

Lab Sample ID: 890-1083-10

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 18:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			7406	09/01/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1	7417	09/02/21 11:10	CH	XEN MID

Client Sample ID: FS04

Date Collected: 08/06/21 15:20

Date Received: 08/09/21 17:00

Lab Sample ID: 890-1083-11

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 20:28	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			7406	09/01/21 15:32	CH	XEN MID
Soluble	Analysis	300.0		1	7417	09/02/21 11:15	CH	XEN MID

Client Sample ID: FS05

Date Collected: 08/06/21 15:25

Date Received: 08/09/21 17:00

Lab Sample	ID:	890-1083-12
		Matrix: Calid

Matrix: Solid

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 20:48	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 20:27	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	СН	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 19:52	CH	XEN MID

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Date Received: 08/09/21 17:00

Job ID: 890-1083-1 SDG: WSPTPE012921045

Client Sample ID: SW01 Lab Sample ID: 890-1083-13 Date Collected: 08/06/21 15:35

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 21:09	MR	XEN MID
Total/NA	Prep	8015NM Prep			6415	08/11/21 16:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6436	08/12/21 20:48	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 19:58	CH	XEN MID

Client Sample ID: SW02 Lab Sample ID: 890-1083-14 Date Collected: 08/06/21 15:37

Date Received: 08/09/21 17:00

Matrix: Solid

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 08/11/21 09:46 MR XEN MID Total/NA 8021B 6378 08/11/21 21:29 MR XEN MID Analysis 1 Total/NA Prep 8015NM Prep 6430 08/12/21 10:01 DM XEN MID Total/NA 8015B NM Analysis 6567 08/14/21 15:45 AJ XEN MID 1 Soluble Leach DI Leach 6324 08/10/21 12:01 CH XEN MID 6439 08/12/21 20:03 CH Soluble Analysis 300.0 **XEN MID** 1

Client Sample ID: SW03 Lab Sample ID: 890-1083-15

Date Collected: 08/06/21 15:40 **Matrix: Solid**

Date Received: 08/09/21 17:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6372	08/11/21 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	6378	08/11/21 21:49	MR	XEN MID
Total/NA	Prep	8015NM Prep			6430	08/12/21 10:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6567	08/14/21 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			6324	08/10/21 12:01	CH	XEN MID
Soluble	Analysis	300.0		1	6439	08/12/21 20:09	CH	XEN MID

Client Sample ID: SW04 Lab Sample ID: 890-1083-16

Date Collected: 08/06/21 15:45 Matrix: Solid

Date Received: 08/09/21 17:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6315	08/11/21 11:25	MR	XEN MID
Total/NA	Analysis	8021B		1	6278	08/11/21 13:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6361	08/11/21 15:32	AJ	XEN MID
Soluble	Leach	DI Leach			6394	08/11/21 11:55	SC	XEN MID
Soluble	Analysis	300.0		1	6404	08/11/21 17:13	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1083-1 Project/Site: Elk Wallow 11 State #11 SDG: WSPTPE012921045

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-20-21	06-30-22
The following analyte	s are included in this rend	ort but the laboratory is a	act cortified by the governing outhority	This list may include analytes for w
the agency does not		ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for wi
		Matrix	Analyte	This list may include analytes for w
the agency does not o	offer certification.	•	, , ,	This list may include analytes for w

Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1

SDG: WSPTPE012921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #11

Job ID: 890-1083-1 SDG: WSPTPE012921045

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1083-1	PH01	Solid	08/05/21 13:30	08/09/21 17:00	1
890-1083-2	PH01A	Solid	08/05/21 15:10	08/09/21 17:00	4
890-1083-3	PH01B	Solid	08/05/21 15:30	08/09/21 17:00	7
890-1083-4	PH01C	Solid	08/06/21 11:05	08/09/21 17:00	13
890-1083-5	FS01	Solid	08/06/21 12:20	08/09/21 17:00	4
890-1083-6	FS02	Solid	08/06/21 12:22	08/09/21 17:00	4
890-1083-7	FS06	Solid	08/06/21 12:40	08/09/21 17:00	4
890-1083-8	FS07	Solid	08/06/21 12:45	08/09/21 17:00	4
890-1083-9	FS01	Solid	08/06/21 14:05	08/09/21 17:00	7
890-1083-10	FS03	Solid	08/06/21 15:15	08/09/21 17:00	6
890-1083-11	FS04	Solid	08/06/21 15:20	08/09/21 17:00	6
890-1083-12	FS05	Solid	08/06/21 15:25	08/09/21 17:00	6
890-1083-13	SW01	Solid	08/06/21 15:35	08/09/21 17:00	0 - 4
890-1083-14	SW02	Solid	08/06/21 15:37	08/09/21 17:00	0 - 4
890-1083-15	SW03	Solid	08/06/21 15:40	08/09/21 17:00	0 - 4
890-1083-16	SW04	Solid	08/06/21 15:45	08/09/21 17:00	0 - 4

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

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

eurofins.

Environment Testing

Deliverable Requested I, 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 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 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. State, Zip: TX, 79701 Empty Kit Relinquished by Possible Hazard Identification FS01 (890-1083-9) FS07 (890-1083-8) FS06 (890-1083-7) FS02 (890-1083-6) FS01 (890-1083-5) PH03 (890-1083-4) PH03 (890-1083-3) PH03 (890-1083-2) PH03 (890-1083-1) Sample Identification - Client ID (Lab ID) Relinquished by: Elk Wallow 11 State #11 elinquished by: Eurofins Xenco elinquished by hone 432-704-5440(Tel) Midland Shipping/Receiving Client Information 211 W Florida Ave oject Name B Custody Seal No (Sub Contract Lab) Ċ Project #: 89000004 Date/Time Date/Time Primary Deliverable Rank W0# Due Date Requested 8/10/2021 PO# Phone: TAT Requested (days): Sampler Sample Date 8/6/21 8/6/21 8/6/21 8/6/21 8/5/21 8/5/21 8/5/21 8/6/21 8/6/21 Mountain 12 20 Mountain 14 05 Mountain 12 40 Mountain 15 10 Mountain Mountain 12 45 Mountain 12 22 Mountain 11 05 Mountain 15 30 Sample 13 30 (C≃comp, Sample Type G=grab) Preservation Code Company company Company (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Solid Solid Solid Solid Solid Solid Solid Solid Solid Lab PM Kramer, Jessica essica kramer@eurofinset.com E-Mail Accreditations Required (See note).
NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by × \times × × × × × × 8015MOD_NM/8015NM_S_Prep Full TPH × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × 8021B/5035FP_Calc BTEX Analysis Requested This sample shipment is forwarded under chain-of-custody If the laboratory does not currently ctions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco State of Origin New Mexico Carrier Tracking No(s) Nethod of Shipment Date/Time Date/Time Ψ Archive For A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E- NaHSO4
F - MeOH
G Amcthor
H Ascorbic Acid Total Number of containers COC No: 890-343 1 Preservation Codes: Page 1 of 2 890-1083-1 Page Di Water EDTA 100 Special Instructions/Note: M Hexane
N - None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Company Months

ervironment Testing

Chain of Custody Record

TSP Dodecahydrate 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 accreditations are subject to chain isted above for analysis/heatsmain's 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. V MCAA W pH 4-5 Z other (specify) Special Instructions/Note Na2O4S Na2SO3 Na2S2O3 H2SO4 AsNa02 Acetone Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni Preservation Codes Ascorbic Acid A HCL
B - NaOH
C Zn Acetate
D - Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Ac Page: Page 2 of 2 890-1083-1 COC No: 890-343 2 i ice J - Di Water Total Number of containers Sarrier Tracking No(s) State of Origin: New Mexico **Analysis Requested** Accreditations Required (See note)
NELAP - Louisiana, NELAP - Texas jessica kramer@eurofinset.com × × × × × × 1021B/5035FP_Calc BTEX × × × 00 ORGEM 28D/DI LEACH Chloride Lab PM Kramer, Jessica E-Mail: × × × × × × NOTEMOD_NM/8015NM_S_Prep Full TPH Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Preservation Code: S=solid, O=waste/oil, BT=Tissue, Solid Solid Solid Solid Solid Solid A=Air) Type (C=comp, Sample G=grab) Primary Deliverable Rank. 2 Mountain 15 20 Mountain 15 25 Mountain 15 37 Mountain 15 40 Mountain 15 45 Mountain Mountain 15 35 Time AT Requested (days Due Date Requested Sample Date 8/6/21 8/6/21 8/6/21 8/6/21 Project #: 89000004 8/6/21 8/6/21 Phone: ₩O.₩ Deliverable Requested 1, II III, IV, Other (specify) Client Information (Sub Contract Lab) Sample Identification - Client ID (Lab ID) Possible Hazard Identification Elk Wallow 11 State #11 SW03 (890-1083-15) SW04 (890-1083-16) SW01 (890-1083-13) SW02 (890-1083-14) FS04 (890-1083-11) PS04 (890-1083-11) PS05 (890-1083-12) ∖ddress 1211 W Florida Ave Phone 432-704-5440(Tel) Shipping/Receiving Eurofins Xenco Jnconfirmed Client Contact State Zip TX, 79701 Midland mail.

13

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

Carlsbad NM 88220

1089 N Canal St

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1083-1 SDG Number: WSPTPE012921045

List Source: Eurofins Xenco, Carlsbad

Login Number: 1083 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	

Eurofins Xenco, Carlsbad

Released to Imaging: 2/8/2022 8:45:41 AM

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1083-1

SDG Number: WSPTPE012921045

Login Number: 1083 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 08/11/21 11:17 AM

Creator: Kramer, Jessica

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1085-1

Laboratory Sample Delivery Group: WSPTE012921045

Client Project/Site: Elk Wallow 11 State #1

Revision: 1

For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 9/2/2021 9:40:30 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 2/8/2022 8:45:41 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: Elk Wallow 11 State #1

Laboratory Job ID: 890-1085-1

SDG: WSPTE012921045

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

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**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1085-1 SDG: WSPTE012921045

Job ID: 890-1085-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1085-1

REVISION

The report being provided is a revision of the original report sent on 8/11/2021. The report (revision 0) is being revised due to .

Receipt

The sample was received on 8/10/2021 10:31 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6394 and analytical batch 880-6404 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.

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

0.00396

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client Sample ID: SW07

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

<0.00396 U

Date Collected: 08/09/21 15:20 Date Received: 08/10/21 10:31

Sample Depth: 0 - 7

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Lab	Sample	ID:	890-	-108	35-1

Matrix: Solid

5			
	Dil Fac	Analyzed	Prepared
	1	08/11/21 13:22	08/11/21 10:00
	1	08/11/21 13:22	08/11/21 10:00
	1	08/11/21 13:22	08/11/21 10:00
	1	08/11/21 13:22	08/11/21 10:00
ç	1	08/11/21 13:22	08/11/21 10:00
	1	08/11/21 13:22	08/11/21 10:00
	1	08/11/21 13:22	08/11/21 10:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116	70 - 130	08/11/21 10:00	08/11/21 13:22	1
1.4-Difluorobenzene (Surr)	103	70 - 130	08/11/21 10:00	08/11/21 13:22	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 14:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 14:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 14:08	1
Total TPH	<49.9	U	49.9	mg/Kg		08/11/21 10:19	08/11/21 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			08/11/21 10:19	08/11/21 14:08	1
o-Terphenyl	129		70 - 130			08/11/21 10:19	08/11/21 14:08	1

	Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solul	ole					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	165		4.98	mg/Kg			08/11/21 17:28	1

Surrogate Summary

Job ID: 890-1085-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•			Per	cent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4958-A-21-A MS	Matrix Spike	104	107	
880-4958-A-21-B MSD	Matrix Spike Duplicate	110	107	
890-1085-1	SW07	116	103	
LCS 880-6333/1-A	Lab Control Sample	105	107	
LCSD 880-6333/2-A	Lab Control Sample Dup	102	106	
MB 880-6333/5-A	Method Blank	104	95	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4997-A-1-E MS	Matrix Spike	91	95	
880-4997-A-1-F MSD	Matrix Spike Duplicate	90	96	
890-1085-1	SW07	112	129	
LCS 880-6382/2-A	Lab Control Sample	78	80	
LCSD 880-6382/3-A	Lab Control Sample Dup	83	87	
MB 880-6382/1-A	Method Blank	83	98	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1

Job ID: 890-1085-1 SDG: WSPTE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6333/5-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6333

	MB ME	3					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Toluene	<0.00200 U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
o-Xylene	<0.00200 U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Total BTEX	<0.00400 U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/11/21 10:00	08/11/21 12:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 10:00	08/11/21 12:40	1

Lab Sample ID: LCS 880-6333/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 6365

Prep Type: Total/NA Prep Batch: 6333

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-6333/2-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 6333

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	5	35
Toluene	0.100	0.09037		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.08715		mg/Kg		87	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130	9	35
o-Xylene	0.100	0.08669		mg/Kg		87	70 - 130	9	35

LCSD LCSD

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

Lab Sample ID: 880-4958-A-21-A MS

Released to Imaging: 2/8/2022 8:45:41 AM

Matrix: Solid

Analyte Benzene

Analysis Batch: 6365

3-A-21-A MS						Client Sample ID: Matrix Spike						
								Prep Ty	pe: Total/NA			
								Prep	Batch: 6333			
Sample	Sample	Spike	MS	MS				%Rec.				
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits				
<0.00200	U	0.101	0.08737		mg/Kg		86	70 - 130				

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1

Prep Batch: 6333

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

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

Lab Sample ID: 880-4958-A-21-A MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 6365

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.101	0.07826		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.07367		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1484		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.101	0.07529		mg/Kg		74	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-4958-A-21-B MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 6365									Prep	Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09616		mg/Kg		96	70 - 130	10	35
Toluene	<0.00200	U	0.0994	0.08656		mg/Kg		87	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0994	0.08180		mg/Kg		82	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1639		mg/Kg		82	70 - 130	10	35
o-Xylene	<0.00200	U	0.0994	0.08303		mg/Kg		83	70 - 130	10	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

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

Lab Sample ID: MB 880-6382/1-A

Matrix: Solid

Analysis Batch: 6361

	Client Sample ID: Method Blank
	Prep Type: Total/NA
	Prep Batch: 6382
MB MB	

mg/Kg

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/11/21 10:19	08/11/21 12:00	1
o-Terphenyl	98		70 - 130	08/11/21 10:19	08/11/21 12:00	1

Lab Sample ID: LCS 880-6382/2-A

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6361** Prep Batch: 6382 LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits

782.0

Gasoline Range Organics (GRO)-C6-C10

Eurofins Xenco, Carlsbad

70 - 130

78

1000

9/2/2021 (Rev. 1)

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

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

Lab Sample ID: LCS 880-6382/2-A **Client Sample ID: Lab Control Sample Prep Type: Total/NA Matrix: Solid Analysis Batch: 6361** Prep Batch: 6382

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 711.3 mg/Kg 71 70 - 130

C10-C28)

	LC3 L	.03	
Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-6382/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6361** Prep Batch: 6382 Spike LCSD LCSD RPD %Rec. Added Result Qualifier Limits RPD Limit **Analyte** Unit D %Rec Gasoline Range Organics 1000 823.7 82 70 - 130 5 20 mg/Kg

(GRO)-C6-C10 1000 Diesel Range Organics (Over 775.5 mg/Kg 78 70 - 130 9 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 83 70 - 130 o-Terphenyl 87

Lab Sample ID: 880-4997-A-1-E MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6361 Prep Batch: 6382

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	922.4		mg/Kg		91	70 - 130	
Diesel Range Organics (Over	<50.0	U	995	969.6		mg/Kg		97	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-4997-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid**

Analysis Batch: 6361									Prep	Batch:	6382
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	922.8		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	961.3		mg/Kg		96	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

D %Rec

101

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

%Rec.

Limits

90 - 110

Client Sample ID: Matrix Spike

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6394/1-A

Matrix: Solid

Analysis Batch: 6404

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 08/11/21 16:59 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-6394/2-A

Matrix: Solid

Analysis Batch: 6404

Spike LCS LCS Analyte Added Result Qualifier Unit Chloride 250 251.6 mg/Kg

Lab Sample ID: LCSD 880-6394/3-A **Matrix: Solid**

Analysis Batch: 6404

Spike LCSD LCSD %Rec. Analyte Added Result Qualifier Limits **RPD** Unit %Rec Chloride 250 255.5 102 90 - 110 mg/Kg

Lab Sample ID: 890-1083-A-16-F MS

Matrix: Solid

Analysis Batch: 6404

Spike MS MS %Rec. Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 431 F1 253 632.6 F1 90 - 110 mg/Kg 80

Lab Sample ID: 890-1083-A-16-G MSD

Matrix: Solid

Analysis Batch: 6404

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec Chloride 431 F1 253 649.2 F1 87 3 20 mg/Kg 90 - 110

Eurofins Xenco, Carlsbad

RPD

Limit

20

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1085-1 SDG: WSPTE012921045

GC VOA

Prep Batch: 6333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1085-1	SW07	Total/NA	Solid	5035	
MB 880-6333/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6333/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6333/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4958-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-4958-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1085-1	SW07	Total/NA	Solid	8021B	6333
MB 880-6333/5-A	Method Blank	Total/NA	Solid	8021B	6333
LCS 880-6333/1-A	Lab Control Sample	Total/NA	Solid	8021B	6333
LCSD 880-6333/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6333
880-4958-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	6333
880-4958-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6333

GC Semi VOA

Analysis Batch: 6361

Lab Sample ID 890-1085-1	Client Sample ID SW07	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 6382
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015B NM	6382
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6382
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6382
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6382
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6382

Prep Batch: 6382

Lab Sample ID 890-1085-1	Client Sample ID SW07	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6394

Lab Sample ID 890-1085-1	Client Sample ID SW07	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-6394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1083-A-16-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1083-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1085-1	SW07	Soluble	Solid	300.0	6394
MB 880-6394/1-A	Method Blank	Soluble	Solid	300.0	6394
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	300.0	6394

QC Association Summary

Job ID: 890-1085-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

HPLC/IC (Continued)

Analysis Batch: 6404 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6394
890-1083-A-16-F MS	Matrix Spike	Soluble	Solid	300.0	6394
890-1083-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6394

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1085-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Client Sample ID: SW07 Lab Sample ID: 890-1085-1 Date Collected: 08/09/21 15:20

Matrix: Solid

Date Received: 08/10/21 10:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6333	08/11/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/11/21 13:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6361	08/11/21 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			6394	08/11/21 11:55	SC	XEN MID
Soluble	Analysis	300.0		1	6404	08/11/21 17:28	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1085-1

Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

Laboratory: Eurofins Xenco, Midland

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

the agency does not offer certification		Program	Identification Number	Expiration Date
Texas	1	NELAP	T104704400-20-21	06-30-22
		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whi
0 ,				
0 ,	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

3

Δ

6

8

10

4.0

13

Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1085-1

SDG: WSPTE012921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1085-1

SDG: WSPTE012921045

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Depth

 890-1085-1
 SW07
 Solid
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City, State ZIP:

Midland, TX 79705 3300 North A Street

Address:

Company Name: Project Manager:

Dan Moir WSP USA

Chain of Custody

13 14

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-44 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Anto Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbo Bill to: (if different) City, State ZIP: Company Name: Carlsbad, NM 88220 Kyle Littrell 522 W. Mermod St. XTO Energy

9-8800) Tampa.FL (813-520-2000) Program Program State	Work Order No:	9/2/2021 (Rev.
ock.TX (806)794-1296		21
9-8800) Tampa,FL (813-	www.xenco.com	202
	Work Order Comments	/2/2
	Program: UST/PST ☐PRP ☐Brownfields ☐RRC ☐uperfund ☐	9
	State of Project:	
	Reporting:Level II	
	Deliverables: EDD ☐ ADaPT ☐ Other:	

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	Notice. Signature of this document and relinquishment of samples constitutes a valid purchase order from ellent company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed											Sample Ide	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	ne:
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aris standard terms and conductors oriccumstances beyond the control oriccumstances to provide the control	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to tentro, its ammore and succommenders. It assigns standard relinarial control 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 described to the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are described.	osses or expenses incurre	sponsibility for any l	samples constitutes a valid p	nent and relinquishment of only for the cost of sample	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase of service. Xenco will be liable only for the cost of samples and shall not assume any responsi
						Circle monica(c)
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		1)	1	Thermometer ID	3.5/3.6	Temperature (°C):
INC: NAPP2110461994			Yes No	Yes No Wet Ice:	Temp Blank	SAMPLE RECEIPT
API: 30-015-37588			Due Date:8-11-21		Alexis Castro	Sampler's Name:
AFE: PA.2020.02331.EXP.01			Rush: 24hr		4/1/2021	P.O. Number:
CC: 1598041001			ne		WSPTE012921045	Project Number:
EST Work Order Notes	ANALYSIS REQUEST		Turn Around		Elk Wallow 11 State #1	Project Name:
Deliverables: EDD ADaPT Other:		wsp.com	Email: Alexis.Castro@wsp.com	Email:	(432) 236-3849	Phone: (43
□evel III □ST/UST □	20	Carlsbad, NM 88220	City, State ZIP:		Midland, TX 79705	City, State ZIP: Mic
		522 W. Mermod St.	Address:		3300 North A Street	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ uperfund ☐		XTO Energy	Company Name:		WSP USA	
Work Order Comments		Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager: Dai
-620-2000) www.xenco.com Page 1 of 1	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	480-355-0900) Atlanta,C	7550) Phoenix,AZ (Hobbs,NM (575-392-		
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Eurofins Xenco, Carlsbad

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Phone 432-704-5440(Tel)	PO#:				<u>). </u>	TPH	de												ē., , ,,	<u>mohemitusti</u>		MeOH Amchlor	. q		S CO I		Na2S2O3 H2SO4	ω		
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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/fests/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.	places the ownershi	of method an	alyte & accredit	ation compliant to the Eurofins	ce upoi Xenco	LTC I	ubcor	ntract lory or	labora	tories	This	sam	ble sh	pmen /ided	t is fo	rward	ed u	nder	chair	1-of-c	custo	us s	If the	labo	rator	y doe	euro Euro	t curr	ently (enc	0
Possible Hazard Identification					Sa	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Dis	sood	Š	fee	may	be é	sse	sed	ifs	due	les]e	eta	ine	5	nge	š	an	ä	onth	٦			
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1085-1 SDG Number: WSPTE012921045

List Source: Eurofins Xenco, Carlsbad

Login Number: 1085 List Number: 1 Creator: Clifton, Cloe

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

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9/2/2021 (Rev. 1)

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1085-1

SDG Number: WSPTE012921045

Login Number: 1085
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 08/11/21 11:17 AM

Creator: Kramer, Jessica

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

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1086-1

Laboratory Sample Delivery Group: WSPTE012921045

Client Project/Site: Elk Wallow 11 State #1

Revision: 1

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 9/2/2021 9:47:32 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

results through

Review your project

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/8/2022 8:45:41 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.

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Laboratory Job ID: 890-1086-1

SDG: WSPTE012921045

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QC Association Summary	14
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Certification Summary	17
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1086-1 Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

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**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-1086-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Job ID: 890-1086-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1086-1

REVISION

The report being provided is a revision of the original report sent on 8/15/2021. The report (revision 0) is being revised due to .

Receipt

The samples were received on 8/10/2021 10:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6394 and analytical batch 880-6404 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.

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1 SDG: WSPTE012921045

Lab Sample ID: 890-1086-1

Matrix: Solid

Client Sample ID: SW05 Date Collected: 08/09/21 09:50

Date Received: 08/10/21 10:31 Sample Depth: 0 - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/11/21 10:00	08/11/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/11/21 10:00	08/11/21 13:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130			08/11/21 10:00	08/11/21 13:43	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 16:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 16:49	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/12/21 10:01	08/14/21 16:49	1
o-Terphenyl	100		70 - 130			08/12/21 10:01	08/14/21 16:49	1

Method: 300.0 - Anions, Ion Cl	hromatography - Sol	luble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105	4.95	mg/Kg			08/11/21 17:33	1

Lab Sample ID: 890-1086-2 **Client Sample ID: SW06** Date Collected: 08/09/21 14:30 Matrix: Solid Date Received: 08/10/21 10:31

Sample Depth: 0 - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/11/21 10:00	08/11/21 14:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			08/11/21 10:00	08/11/21 14:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/11/21 10:00	08/11/21 14:03	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1086-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Client Sample ID: SW06 Lab Sample ID: 890-1086-2

Date Collected: 08/09/21 14:30 **Matrix: Solid** Date Received: 08/10/21 10:31

Sample Depth: 0 - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 14:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 14:29	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 14:29	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			08/11/21 10:19	08/11/21 14:29	1
o-Terphenyl	111		70 - 130			08/11/21 10:19	08/11/21 14:29	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyto						•	•	

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1086-1 Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percer	t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4958-A-21-A MS	Matrix Spike	104	107	
880-4958-A-21-B MSD	Matrix Spike Duplicate	110	107	
890-1086-1	SW05	108	98	
890-1086-2	SW06	126	102	
LCS 880-6333/1-A	Lab Control Sample	105	107	
LCSD 880-6333/2-A	Lab Control Sample Dup	102	106	
MB 880-6333/5-A	Method Blank	104	95	

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

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

Matrix: Solid Prep Type: Total/NA

			Perc	ent Surroga
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4997-A-1-E MS	Matrix Spike	91	95	
880-4997-A-1-F MSD	Matrix Spike Duplicate	90	96	
880-5005-A-1-G MS	Matrix Spike	92	94	
880-5005-A-1-H MSD	Matrix Spike Duplicate	88	93	
890-1086-1	SW05	94	100	
890-1086-2	SW06	101	111	
LCS 880-6382/2-A	Lab Control Sample	78	80	
LCS 880-6430/2-A	Lab Control Sample	100	109	
LCSD 880-6382/3-A	Lab Control Sample Dup	83	87	
LCSD 880-6430/3-A	Lab Control Sample Dup	94	98	
MB 880-6382/1-A	Method Blank	83	98	
MB 880-6430/1-A	Method Blank	111	130	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1

SDG: WSPTE012921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6333/5-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6333

MB	MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/11/21 10:00	08/11/21 12:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/11/21 10:00	08/11/21 12:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/21 10:00	08/11/21 12:40	1

Lab Sample ID: LCS 880-6333/1-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6333

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1053		mg/Kg	_	105	70 - 130	
Toluene	0.100	0.09743		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09402		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09516		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-6333/2-A

Matrix: Solid

Analysis Batch: 6365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6333

	Spike	LCSD LC	CSD			%Rec.		RPD
Analyte	Added	Result Qu	ualifier l	Unit D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1003	r	mg/Kg	100	70 - 130	5	35
Toluene	0.100	0.09037	r	mg/Kg	90	70 - 130	8	35
Ethylbenzene	0.100	0.08715	r	mg/Kg	87	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1739	r	mg/Kg	87	70 - 130	9	35
o-Xylene	0.100	0.08669	r	mg/Kg	87	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-4958-A-21-A MS

Matrix: Solid

Analysis Batch: 6365									Prep	Batch: 6333
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.08737		mg/Kg		86	70 - 130	

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1 SDG: WSPTE012921045

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

Lab Sample ID: 880-4958-A-21-A MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6365** Prep Batch: 6333

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.101	0.07826		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.07367		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1484		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.101	0.07529		mg/Kg		74	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 104 1,4-Difluorobenzene (Surr) 107 70 - 130

Lab Sample ID: 880-4958-A-21-B MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 6365

Analysis Batch: 6365									Prep	Batch:	6333
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09616		mg/Kg		96	70 - 130	10	35
Toluene	<0.00200	U	0.0994	0.08656		mg/Kg		87	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0994	0.08180		mg/Kg		82	70 - 130	10	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1639		mg/Kg		82	70 - 130	10	35
o-Xylene	< 0.00200	U	0.0994	0.08303		mg/Kg		83	70 - 130	10	35

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 107 70 - 130

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

MD MD

Lab Sample ID: MB 880-6382/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Prep Batch: 6382 **Analysis Batch: 6361**

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1
Total TPH	<50.0	U	50.0	mg/Kg		08/11/21 10:19	08/11/21 12:00	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83	70 - 130	08/11/21 10:19	08/11/21 12:00	1
o-Terphenyl	98	70 - 130	08/11/21 10:19	08/11/21 12:00	1

Lab Sample ID: LCS 880-6382/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6361							Prep	Batch: 638	2
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	782.0		mg/Kg		78	70 - 130		_

(GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-1086-1 SDG: WSPTE012921045 Project/Site: Elk Wallow 11 State #1

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

Lab Sample ID: LCS 880-6382/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 6382 **Analysis Batch: 6361**

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 711.3 mg/Kg 71 70 - 130

C10-C28)

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

Lab Sample ID: LCSD 880-6382/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6361** Prep Batch: 6382 LCSD LCSD RPD Spike %Rec. Result Qualifier RPD Limit **Analyte** Added Unit %Rec Limits D Gasoline Range Organics 1000 823.7 82 70 - 130 5 20 mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over 1000 775.5 mg/Kg 78 70 - 130 9 20 C10-C28) LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 83 o-Terphenyl 87 70 - 130

Lab Sample ID: 880-4997-A-1-E MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6361

Prep Batch: 6382 Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 70 - 130 Gasoline Range Organics <50.0 U 995 922.4 mg/Kg 91 (GRO)-C6-C10 995 969.6 Diesel Range Organics (Over <50.0 U mg/Kg 97 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 95 70 - 130

Lab Sample ID: 880-4997-A-1-F MSD **Matrix: Solid**

Analysis Batch: 6361 Prep Batch: 6382 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Gasoline Range Organics Ū <50.0 998 922.8 mg/Kg 91 70 - 130 0 20 (GRO)-C6-C10 961.3 998 96 70 - 130 20 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 90 o-Terphenyl 96 70 - 130

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Job ID: 890-1086-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: WSPTE012921045

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

Lab Sample ID: MB 880-6430/1-A

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6430

	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		08/12/21 10:01	08/14/21 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1
Total TPH	<50.0	U	50.0	mg/Kg		08/12/21 10:01	08/14/21 11:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/12/21 10:01	08/14/21 11:17	1
o-Terphenyl	130		70 - 130	08/12/21 10:01	08/14/21 11:17	1

Lab Sample ID: LCS 880-6430/2-A

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Prep Batch: 6430 **Analysis Batch: 6567** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 871.6 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 861.9 mg/Kg 86 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	109	70 - 130

Lab Sample ID: LCSD 880-6430/3-A

Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6567** Prep Batch: 6430 LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 894.4 89 70 - 130 20 mg/Kg

786.5

mg/Kg

1000

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 94 70 - 130 o-Terphenyl 98

Lab Sample ID: 880-5005-A-1-G MS

Matrix: Solid

Analysis Batch: 6567

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

70 - 130

79

Prep Batch: 6430

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	883.2		mg/Kg		87	70 - 130	
Diesel Range Organics (Over	<50.0	U	995	817.7		mg/Kg		79	70 - 130	

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1 SDG: WSPTE012921045

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

Lab Sample ID: 880-5005-A-1-G MS

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6430

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 92 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: 880-5005-A-1-H MSD

Matrix: Solid

Analysis Batch: 6567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 6430

RPD MSD MSD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 998 862.3 mg/Kg 85 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 789.0 mg/Kg 76 70 - 130 20 C10-C28)

MSD MSD

Result Qualifier

431 F1

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88 70 - 130 o-Terphenyl 93

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6394/1-A

Matrix: Solid

Analysis Batch: 6404

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

Client Sample ID: Lab Control Sample

MB MB Analyte Result Qualifier

RL Unit Prepared Analyzed Dil Fac 5.00 08/11/21 16:59 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-6394/2-A

Matrix: Solid

Analysis Batch: 6404

Prep Type: Soluble

Spike LCS LCS %Rec. Analyte Added Result Qualifier D %Rec Limits Unit 250 251.6 Chloride mg/Kg 101 90 - 110

Added

253

Lab Sample ID: LCSD 880-6394/3-A

Matrix: Solid

Analysis Batch: 6404

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	255.5		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-1083-A-16-F MS

Released to Imaging: 2/8/2022 8:45:41 AM

Matrix: S

Analysis

Analyte

Chloride

Solid				Prep Type: Soluble
s Batch: 6404				
	Sample Sample	Snike	MS MS	%Rec

Result Qualifier

632.6 F1

Unit

mg/Kg

%Rec

80

Limits

90 - 110

Eurofins Xenco, Carlsbad

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

Client Sample ID: Matrix Spike

Client: WSP USA Inc.

Job ID: 890-1086-1

Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1083-A-16-G MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analysis Batch: 6404

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	431	F1	253	649.2	F1	mg/Kg		87	90 - 110	3	20

1

А

5

8

10

12

13

QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1 SDG: WSPTE012921045

GC VOA

Prep Batch: 6333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-1	SW05	Total/NA	Solid	5035	
890-1086-2	SW06	Total/NA	Solid	5035	
MB 880-6333/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6333/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6333/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4958-A-21-A MS	Matrix Spike	Total/NA	Solid	5035	
880-4958-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-1	SW05	Total/NA	Solid	8021B	6333
890-1086-2	SW06	Total/NA	Solid	8021B	6333
MB 880-6333/5-A	Method Blank	Total/NA	Solid	8021B	6333
LCS 880-6333/1-A	Lab Control Sample	Total/NA	Solid	8021B	6333
LCSD 880-6333/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6333
880-4958-A-21-A MS	Matrix Spike	Total/NA	Solid	8021B	6333
880-4958-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6333

GC Semi VOA

Analysis Batch: 6361

Lab Sample ID 890-1086-2	Client Sample ID SW06	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015B NM	6382
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6382
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6382
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6382
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6382

Prep Batch: 6382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-2	SW06	Total/NA	Solid	8015NM Prep	
MB 880-6382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-4997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6430

Lab Sample ID 890-1086-1	Client Sample ID SW05	Prep Type Total/NA	Matrix Solid	Method Prep	rep Batch
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-1	SW05	Total/NA	Solid	8015B NM	6430
MB 880-6430/1-A	Method Blank	Total/NA	Solid	8015B NM	6430

Eurofins Xenco, Carlsbad

Page 14 of 24

QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1 SDG: WSPTE012921045

GC Semi VOA (Continued)

Analysis Batch: 6567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-6430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6430
LCSD 880-6430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6430
880-5005-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	6430
880-5005-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6430

HPLC/IC

Leach Batch: 6394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-1	SW05	Soluble	Solid	DI Leach	
890-1086-2	SW06	Soluble	Solid	DI Leach	
MB 880-6394/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1083-A-16-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1083-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1086-1	SW05	Soluble	Solid	300.0	6394
890-1086-2	SW06	Soluble	Solid	300.0	6394
MB 880-6394/1-A	Method Blank	Soluble	Solid	300.0	6394
LCS 880-6394/2-A	Lab Control Sample	Soluble	Solid	300.0	6394
LCSD 880-6394/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6394
890-1083-A-16-F MS	Matrix Spike	Soluble	Solid	300.0	6394
890-1083-A-16-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6394

Eurofins Xenco, Carlsbad

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Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-1086-1

Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

Client Sample ID: SW05

Lab Sample ID: 890-1086-1

Date Collected: 08/09/21 09:50

Date Received: 08/10/21 10:31

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6333	08/11/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/11/21 13:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			6430	08/12/21 10:01	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6567	08/14/21 16:49	AJ	XEN MID
Soluble	Leach	DI Leach			6394	08/11/21 11:55	SC	XEN MID
Soluble	Analysis	300.0		1	6404	08/11/21 17:33	AJ	XEN MID

Client Sample ID: SW06

Date Collected: 08/09/21 14:30

Lab Sample ID: 890-1086-2

Matrix: Solid

Date Received: 08/10/21 10:31

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6333	08/11/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	6365	08/11/21 14:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			6382	08/11/21 10:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6361	08/11/21 14:29	AJ	XEN MID
Soluble	Leach	DI Leach			6394	08/11/21 11:55	SC	XEN MID
Soluble	Analysis	300.0		1	6404	08/11/21 17:38	AJ	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1086-1

Project/Site: Elk Wallow 11 State #1

SDG: WSPTE012921045

Laboratory: Eurofins Xenco, Midland

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

Authority Texas		rogram ELAP	Identification Number T104704400-20-21	Expiration Date 06-30-22
The following analyte the agency does not o	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for v
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.

Method

8015B NM

8015NM Prep

DI Leach

8021B

300.0 5035

Project/Site: Elk Wallow 11 State #1

Method Description

Microextraction

Volatile Organic Compounds (GC)

Closed System Purge and Trap

Diesel Range Organics (DRO) (GC) Anions, Ion Chromatography

Deionized Water Leaching Procedure

Job ID: 890-1086-1

SDG: WSPTE012921045

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1086-1

SDG: WSPTE012921045

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1086-1	SW05	Solid	08/09/21 09:50	08/10/21 10:31	0 - 7
890-1086-2	SW06	Solid	08/09/21 14:30	08/10/21 10:31	0 - 7

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Project Manager:

Dan Moir

Chain of Custody

Work Order No:

www.xenco.com

Page

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9/2/2021 (Rev. 1)

Work Order Comments

13

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 Bill to: (if different) Kyle Littrell

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			Chi a	Relinquished by: (Signature)	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	Notice: Signature of this document and relinquishment of samples constitutes a valid purehase ender from ellent company to Xenco, its affiliates and subcom 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	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010											Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	one:	City, State ZIP:	Address:	Company Name:
			de	y: (Signature	narge of \$75.00 v	document and a liable only for t	(s) and Meta	010 200									SW02	SW01	ntification	als: Yes	_	6	35	H				E	(432) 236-3849	Midland, TX 79705	3300 North A Street	WOT OWA
-			1	e)	will be applied t	relinquishment the cost of sam	al(s) to be a	200.8 / 6020:		-							S	S	Matrix		N/A	No.	5/3.6	Temp Blank:	Alexis Castro	4/1/2021	WSPTE012921045	Elk Wallow 11 State #1	3849	X 79705	A Street	
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		0	Gners	Received by: (Signature)	nd a charge of \$	ot assume any re	ICLY / SP	BRCRA 13PPM									1430	0950	Time Sampled	Total Containers:	Correction Factor:	Twan!	Thermometer ID	Wet Ice:	Due Date	Rush:	Routine	Tu	Email:			
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Chain of Custody

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)		Thermometer ID	3.8	Temperature (°C):
INC: NAPP2110461994	INC:			Yeg No	(Yes) No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
API: 30-015-37588	API:			Due Date:		Alexis Castro	Sampler's Name:
AFE: PA.2020.02331.EXP.01	AFE			Rush:		4/1/2021	P.O. Number:
CC: 1598041001	CC:			Routine D		WSPTE012921045	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around	State #1	Elk Wallow 11 State #1	Project Name:
Other:	Deliverables: EDD ADaPT	Delive	wsp.com	Email: Alexis.Castro@wsp.com	Er	(432) 236-3849	
_RRP _level IV	Level III	Report	Carlsbad, NM 88220	City, State ZIP:		Midland, TX 79705	City, State ZIP: Mic
		Sta	522 W. Mermod St.	Address:		3300 North A Street	Address: 33
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Page l of l	www.xenco.com	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	392-7550) Phoenix,AZ	Hobbs, NM (575-		LAGI
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Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199

Eurofins Xenco, Carlsbad

1089 N Canal St.

Chain of Custody Record

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America 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/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. SW02 (890-1086-2) State Zip: TX, 79701 Relinquished by Empty Kit Relinquished by Possible Hazard Identification SW01 (890-1086-1) Sample Identification - Client ID (Lab ID) Relinquished by ⊃roject Name Elk Wallow 11 State #1 432-704-5440(Tel) Midland 1211 W Florida Ave, Custody Seals Intact. linquished by: urofins Xenco lient Information ipping/Receiving Yes R S S Custody Seal No (Sub Contract Lab) SSOW#: Project #: 89000004 Due Date Requested 8/11/2021 Primary Deliverable Rank 2 WO#)ate/Time PO # TAT Requested (days) Phone: Sampler Sample Date 8/9/21 8/9/21 Date Mountain 14 30 Mountail Sample 09 50 (C=comp, Sample Preservation Code Type Company Company S=solid, O=waste/oil, BT=Tissue, Solid Solid E-Mail jessıca kramer@eurofinset.com Kramer Jessica Field Filtered Sample (Yes or No) 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)

| Debting To Cleant | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bullah | Disposal Bull Perform MS/MSD (Yes or No) 🦽 Cooler Temperature(s) °C and Other Remarks Received by × × 8015MOD_NM/8015NM_S_Prep Full TPH 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) of Shipment Date/Time Archive For A HCL
B NAOH
C TA Acetate
D Nitric Acid
E - NaHSO4
F MeOH
G Amchlor
H - Ascorbic Acid COC No. 890-343 1 Page: Page 1 of 1 Preservation Co 890-1086-1 ice
DI Water
EDTA
FEDA 407 Special Instructions/Note M - Hexane
N - None
O - AsNaO2
P - NaZO4S
Q NaZSO3
R - NaZSO3
R - NaZSO3
S - H2SO4
T TSP Dodecahydrate
U - Acetone
U - Acetone
V MCAA
W pH 4-5
Z other (specify) Company Jompany Company Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1086-1

SDG Number: WSPTE012921045

Login Number: 1086 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1086-1

SDG Number: WSPTE012921045

List Number: 1086
List Number: 2
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 08/11/21 11:17 AM

Creator: Kramer, Jessica

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

4

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4

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11

13

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1105-1

Laboratory Sample Delivery Group: TEO12921045

Client Project/Site: Elk Wallow 11 State #1

For:

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

Attn: Dan Moir

J. KRAMER

Authorized for release by: 8/16/2021 7:32:42 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

-----LINKS

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lotal Access

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www.eurofinsus.com/Env
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Results relate only to the items tested and the sample(s) as received by the laboratory.

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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1 1

12

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Laboratory Job ID: 890-1105-1

SDG: TEO12921045

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1105-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

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**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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)

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1105-1

SDG: TEO12921045

Job ID: 890-1105-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1105-1

Receipt

The sample was received on 8/13/2021 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

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

GC Semi VOA

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

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

Matrix: Solid

Lab Sample ID: 890-1105-1

Client Sample Results

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Client Sample ID: FS12

Date Collected: 08/12/21 15:47 Date Received: 08/13/21 09:30

Sample Depth: - 7

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/16/21 09:50	08/16/21 15:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130			08/16/21 09:50	08/16/21 15:05	1
, ,	ma Ormanica (D)	DO) (CC)						
Method: 8015B NM - Diesel Ran	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	• • •	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared 08/16/21 08:50	Analyzed 08/16/21 16:45	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>.</u>		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	08/16/21 08:50	08/16/21 16:45	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U	49.8	mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50	08/16/21 16:45 08/16/21 16:45	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 16:45 08/16/21 16:45 08/16/21 16:45	1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 16:45 08/16/21 16:45 08/16/21 16:45 08/16/21 16:45	1 1
Method: 8015B NM - Diesel Range 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 U	49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared	08/16/21 16:45 08/16/21 16:45 08/16/21 16:45 08/16/21 16:45 Analyzed	1 1
Method: 8015B NM - Diesel Range 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 <99.8 %Recovery 99 104	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>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 16:45 08/16/21 16:45 08/16/21 16:45 08/16/21 16:45 Analyzed 08/16/21 16:45	1 1 1 1 1 1 Dil Fac

4.99

mg/Kg

67.8

Eurofins Xenco, Carlsbad

08/16/21 15:11

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

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)	
880-5117-A-1-B MS	Matrix Spike	110	104	
880-5117-A-1-C MSD	Matrix Spike Duplicate	110	108	
890-1105-1	FS12	115	103	
LCS 880-6596/1-A	Lab Control Sample	103	107	
LCSD 880-6596/2-A	Lab Control Sample Dup	106	107	
MB 880-6596/5-A	Method Blank	101	96	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (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)	
890-1100-A-81-H MS	Matrix Spike	92	87	
890-1100-A-81-I MSD	Matrix Spike Duplicate	91	88	
890-1105-1	FS12	99	104	
LCS 880-6589/2-A	Lab Control Sample	97	97	
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99	
MB 880-6589/1-A	Method Blank	107	118	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1

Job ID: 890-1105-1

SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6596/5-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6596

MB	MB
Dogult	Ougli

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	08/16/21 09:50	08/16/21 13:22	1
1,4-Difluorobenzene (Surr)	96	70 - 130	08/16/21 09:50	08/16/21 13:22	1

0.200

0.100

Lab Sample ID: LCS 880-6596/1-A

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 6599

Client Sample ID: Lab Control Sample

70 - 130

70 - 130

92

91

Prep Type: Total/NA

Prep Batch: 6596

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec 0.100 0.1009 mg/Kg 101 70 - 130 0.100 0.09300 mg/Kg 93 70 - 130 0.100 0.09098 mg/Kg 91 70 - 130

mg/Kg

mg/Kg

0.1831

0.09076

o-Xylene LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1 4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-6596/2-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6596

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09968		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.09328		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.09297		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09331		mg/Kg		93	70 - 130	3	35

LCSD LCSD

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

Lab Sample ID: 880-5117-A-1-B MS

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Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6596

·										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08209		ma/Ka		82	70 - 130	

Prep Batch: 6596

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1105-1 SDG: TEO12921045 Project/Site: Elk Wallow 11 State #1

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

Lab Sample ID: 880-5117-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 6599

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00201	U	0.0996	0.07676		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00201	U	0.0996	0.07523		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1510		mg/Kg		76	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.07556		mg/Kg		76	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 880-5117-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 6599	Prep Batch: 6596

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.08015		mg/Kg		81	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.07443		mg/Kg		75	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.07144		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1444		mg/Kg		73	70 - 130	4	35
o-Xylene	<0.00201	U	0.0994	0.07223		mg/Kg		73	70 - 130	5	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

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

Lab Sample ID: MB 880-6589/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 6591	Prep Batch: 6589
MB MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	96.25		50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	96.25		50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	08/16/21 08:50	08/16/21 11:24	1

o-Terphenyl 118 70 - 130 08/16/21 08:50 08/16/21 11:24

Lab Sample ID: LCS 880-6589/2-A **Matrix: Solid**

Analysis Batch: 6591							Pre	p Batch: 6589
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	814.9		mg/Kg		81	70 - 130	

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client: WSP USA Inc. Job ID: 890-1105-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

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

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6591** Prep Batch: 6589

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (Over		1000	832.6		mg/Kg		83	70 - 130	
040,000)									

C10-C28)

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-6589/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6591** Prep Batch: 6589

Spike LCSD LCSD %Rec. RPD Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD 1000 902.4 90 Gasoline Range Organics mg/Kg 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 833.9 mg/Kg 83 70 - 130 0 20

C10-C28)

	LOOD	LOOD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

LCSD LCSD

Lab Sample ID: 890-1100-A-81-H MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591

Prep Batch: 6589 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U Gasoline Range Organics 995 1032 mg/Kg 104 70 - 130 (GRO)-C6-C10 <50.0 U 995 843.5 85 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130

87

Lab Sample ID: 890-1100-A-81-I MSD Client Sample ID: Matrix Spike Duplicate

70 - 130

Matrix: Solid Analysis Batch: 6591

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o-Terphenyl

C10-C28)

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added RPD Limit Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 998 981.7 mg/Kg 98 70 - 130 20 (GRO)-C6-C10 <50.0 U 998 844.9 85 70 - 130 20 Diesel Range Organics (Over mg/Kg n

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 91 88 70 - 130 o-Terphenyl

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Batch: 6589

Client: WSP USA Inc. Job ID: 890-1105-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6601/1-A

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

Analysis Batch: 6618

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/16/21 13:53	1

Lab Sample ID: LCS 880-6601/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6618

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit D %Rec Limits Chloride 250 251.0 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-6601/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6618

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit Limits Limit Chloride 250 252.5 101 mg/Kg 90 - 110

Lab Sample ID: 890-1113-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6618

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	628	F1	248	849.4	F1	mg/Kg		89	90 - 110	

Lab Sample ID: 890-1113-A-1-C MSD

Matrix: Solid

Analysis Batch: 6618

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	628	F1	248	849.5	F1	mg/Kg		89	90 - 110	0	20	

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1105-1 SDG: TEO12921045

GC VOA

Prep Batch: 6596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1105-1	FS12	Total/NA	Solid	5035	
MB 880-6596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1105-1	FS12	Total/NA	Solid	8021B	6596
MB 880-6596/5-A	Method Blank	Total/NA	Solid	8021B	6596
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	8021B	6596
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6596
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	6596
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6596

GC Semi VOA

Prep Batch: 6589

Lab Sample ID 890-1105-1	Client Sample ID FS12	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1105-1	FS12	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6589
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1105-1	FS12	Soluble	Solid	DI Leach	
MB 880-6601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1113-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1113-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1105-1	FS12	Soluble	Solid	300.0	6601
MB 880-6601/1-A	Method Blank	Soluble	Solid	300.0	6601
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	300.0	6601

Eurofins Xenco, Carlsbad

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-1105-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

HPLC/IC (Continued)

Analysis Batch: 6618 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6601
890-1113-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	6601
890-1113-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6601

Lab Chronicle

Job ID: 890-1105-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Client Sample ID: FS12

Lab Sample ID: 890-1105-1

Date Collected: 08/12/21 15:47 Date Received: 08/13/21 09:30

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6596	08/16/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/16/21 15:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6591	08/16/21 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			6601	08/16/21 11:01	CH	XEN MID
Soluble	Analysis	300.0		1	6618	08/16/21 15:11	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1105-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	gram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-22
The following analytes the agency does not of	' '	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015B NM	Prep Method 8015NM Prep	Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1105-1

SDG: TEO12921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1105-1

SDG: TEO12921045

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1105-1	FS12	Solid	08/12/21 15:47	08/13/21 09:30	- 7

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Company Name: Project Manager:

WSP USA Inc. Tacoma Morrissey

	Chain of Custody
(281) 240-4200	(281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
1400 704 6440	1200 TO 151101 FL Door TV (015)585 3113 Libbook TV (806)781-1296

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

Bill to: (if different) Company Name:

XTO Energy

Program: UST/PST □PRP □Brownfields □RC

□uperfund □

Work Order Comments

Page

Address	3300 North A Street	reet			Address:		3104	3104 E Green Street	n Stre	<u>~</u>					S	State of Project:	Proje	유									
City, State ZIP:	Midland. TX 79705	<u> </u>			City, State ZIP		Carlsb	Carlsbad, NM 88220	1 8822	0					Repo	rting:L	Reporting:Level II		_evel III		T/US1	\Box	P		□ST/UST □RP □velIV □		
Phone:	432.236.3849			Email:	Email: uis.delval@wsp.com; tacoma.morrissey@wsp.com	vsp.cc	m; ta	coma	morri	ssey@	wsp.c	om			Deliv	erable	Deliverables: EDD	$ \Box$	_	ADa	ADaPT 🗆		Other:	ä			
Project Name:	Elk Wa	llow 11	Elk Wallow 11 State #1	Tur	Turn Around						≱	ANALYSIS		REQUEST	TS						Н	8	ork C)rder	Work Order Notes	S	لــــا
Project Number:	TE	TE012921045	045	Routine	ы П												를 -				>	E E	A.202	0.02	331.E	AFE: PA.2020.02331.EXP.01	
P.O. Number:	Cost Center: 1598041001	ter: 159	8041001	Rush:	Rush: 24 hr						=											>	PI: 30	-015-	API: 30-015-37588	00	
Sampler's Name:	Luis Del Val			Due Date:	ate:																	ciden	# Z	APP2	21104	Incident #: NAPP2110461994	
SAMPLE RECEIPT		Temp Blank:	No No	Wet Ice:	(Yes) No						:=		That I	9 E	hain of Custody		=										
Temperature (°C):	2.2/	0.5		hermometer ID	0	ners)		g	890-1100	10	+			-	-	_								
Received Intact:	₩	No		NM-a	ىل	ntai)21)	00.0												Τ						
Cooler Custody Seals:	s: Yes	N/A	Corre	Correction Factor:		Co	015)	0=80	PA 3							_			_		_	AT sta	rts the	day re	TAT starts the day recevied by the	by the	
Sample Custody Seals:		N/A	Total	Total Containers:		er of	PA 80	EPA (e (EF												Γ	lab	, if rece	wed b	lab, if received by 4:30pm	ğ	1
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Numb	TPH (E	втех (Chloric												-	Se	mple	Con	Sample Comments	l s	1
FS12	2	S	8/12/2021	1547	7.		×	×	×								†		✝	+	╀						
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Total 200.7 / 6010	010 200.8 / 6020:	20:	8R	8RCRA 13PPM	M Texas 11	≥	Sb As	s Ba	Ве В	8	Ca Cr	င္ပ	Cu Fe	용	Pb Mg Mn Mo Ni	ĵ K	₹.	X Se	Se Ag	SiO2	Na	Sr TI	Sr Tl Sn U V Zn	٧ ر	Zn		_
Circle Method	Circle Method(s) and Metal(s) to be analyzed	o be an		TCLP / SPL	TCLP / SPLP 6010: 8RCRA		Sb A	Sb As Ba	Ве	Cd Cr	Co Cu Pb Mn Mo Ni Se Ag TI U	u Pb	š	o Z	Se	Ag T	c			١.	1631	/ 245	1/74	70	1631 / 245.1 / 7470 / 7471 : Hg	: Hg	4
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	document and relinquis	shment of	samples constitu	tes a valid purct	hase order from consibility for any	losses o	mpany	to Xenc	o, its aff	illates ar	nt If suc	ontracto	rs. It as s are du	signs s e to cire	t assigns standard terms and conditions due to circumstances beyond the contro	terms	and co	nditions e contr	9 "								
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 en	arge of \$75.00 will be a	pplied to e	ach project and a	charge of \$5 to	r each sample su	bmitted	to Xen	co, but	not anal	zed. Th	ese tern	s will b	enforc	ed unie	forced unless previously negotiated.	iously r	egotia	å					1				ـــا د
Relinquished by: (Signature)	: (Signature))	Received	Received by: (Signature)	e)		Date/	Date/Time		P.	Relinquished by:	shed I		(Signature)	e)		Rec	Received by: (Signature)	by: (Signa	ture)			Dat	Date/Time	٥	
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Revised Date 051418 Rev. 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1105-1 SDG Number: TEO12921045

Login Number: 1105 List Source: Eurofins Xenco, Carlsbad

List Number: 1

<6mm (1/4").

Creator: Olivas, Nathaniel

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	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1105-1 SDG Number: TEO12921045

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 08/16/21 10:33 AM

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: 890-1106-1

Laboratory Sample Delivery Group: TEO12921045

Client Project/Site: Elk Wallow 11 State #1

Revision: 2

For:

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

Attn: Tacoma Morrissey

MRAMER

Authorized for release by: 9/2/2021 10:04:13 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/8/2022 8:45:41 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: Elk Wallow 11 State #1

Laboratory Job ID: 890-1106-1

SDG: TEO12921045

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1106-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

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

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1

SDG: TEO12921045

Job ID: 890-1106-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1106-1

REVISION

The report being provided is a revision of the original report sent on 8/16/2021. The report (revision 1) is being revised due to Revised report due to blank picking up false area.

Report revision history

Receipt

The sample was received on 8/13/2021 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1106-1

Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Client Sample ID: SW09 Lab Sample ID: 890-1106-1 Date Collected: 08/12/21 15:00 **Matrix: Solid** Date Received: 08/13/21 09:30

Sample Depth: 0 - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
Xylenes, Total	< 0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/16/21 09:50	08/16/21 15:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/16/21 09:50	08/16/21 15:25	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
• • •								
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared Option	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared 08/16/21 08:50	Analyzed 08/16/21 17:06	
	Result	Qualifier U	RL		<u>D</u>	08/16/21 08:50		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	mg/Kg	_ <u>D</u>	08/16/21 08:50 08/16/21 08:50	08/16/21 17:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U U	RL 49.9 49.9	mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06 08/16/21 17:06	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u> </u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 08/16/21 17:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U U	RL 49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 Analyzed	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	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9 <40.9	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 Analyzed 08/16/21 17:06	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 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 08/16/21 08:50 Prepared 08/16/21 08:50	08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 08/16/21 17:06 Analyzed 08/16/21 17:06	Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1

SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate	Recov	ery (Acc	eptance	Limits)	
		BFB1	DFBZ1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
880-5117-A-1-B MS	Matrix Spike	110	104						
880-5117-A-1-C MSD	Matrix Spike Duplicate	110	108						
890-1106-1	SW09	112	100						
LCS 880-6596/1-A	Lab Control Sample	103	107						
LCSD 880-6596/2-A	Lab Control Sample Dup	106	107						
MB 880-6596/5-A	Method Blank	101	96						
Surrogate Legend									
BFB = 4-Bromofluorol	penzene (Surr)								
DFBZ = 1,4-Difluorobe	enzene (Surr)								

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)	
890-1100-A-81-H MS	Matrix Spike	92	87	
890-1100-A-81-I MSD	Matrix Spike Duplicate	91	88	
890-1106-1	SW09	98	106	
LCS 880-6589/2-A	Lab Control Sample	97	97	
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99	
MB 880-6589/1-A	Method Blank	107	118	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-1106-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6596/5-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6596

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/16/21 09:50	08/16/21 13:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/16/21 09:50	08/16/21 13:22	1

Lab Sample ID: LCS 880-6596/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6599

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.1009 mg/Kg 101 70 - 130 Toluene 0.100 0.09300 mg/Kg 93 70 - 130 Ethylbenzene 91 0.100 0.09098 mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.1831 92 70 - 130 mg/Kg 0.100 0.09076 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-6596/2-A

Matrix: Solid

o-Xylene

Analysis Batch: 6599

Client Sample ID: Lab Control Sample Dup

91

Prep Type: Total/NA Prep Batch: 6596

Prep Batch: 6596

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Benzene 0.100 0.09968 mg/Kg 100 70 - 130 35 Toluene 0.100 0.09328 mg/Kg 93 70 - 130 0 35 Ethylbenzene 0.100 0.09297 mg/Kg 93 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.1875 94 70 - 130 35 mg/Kg 0.100 35 o-Xylene 0.09331 mg/Kg 93 70 - 130

LCSD LCSD

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

Lab Sample ID: 880-5117-A-1-B MS

Matrix: Solid

Analysis Batch: 6599									Prep	Batcn: 6596
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0996	0.08209		mg/Kg		82	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

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mg/Kg

Client: WSP USA Inc. Job ID: 890-1106-1 SDG: TEO12921045 Project/Site: Elk Wallow 11 State #1

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

Lab Sample ID: 880-5117-A-1-B MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA** Prep Batch: 6596 **Analysis Batch: 6599**

MS MS Sample Sample Spike %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits Toluene <0.00201 U 0.0996 0.07676 77 70 - 130 mg/Kg Ethylbenzene <0.00201 U 0.0996 0.07523 mg/Kg 76 70 - 130<0.00402 U 0.199 76 70 - 130 m-Xylene & p-Xylene 0.1510 mg/Kg o-Xylene <0.00201 U 0.0996 0.07556 mg/Kg 76 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 880-5117-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 6599									Prep	Batch:	6596
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.08015		mg/Kg		81	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.07443		mg/Kg		75	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.07144		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1444		mg/Kg		73	70 - 130	4	35
o-Xylene	<0.00201	U	0.0994	0.07223		mg/Kg		73	70 - 130	5	35

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 108 70 - 130

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

Lab Sample ID: MB 880-6589/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591

MD MD

ı		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
	Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1-Chlorooctane 107 70 - 130 08/16/21 08:50 08/16/21 11:24 o-Terphenyl 118 70 - 130 08/16/21 08:50 08/16/21 11:24

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 6591							Prep	Batch: 6589
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	814.9		mg/Kg		81	70 - 130	

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Batch: 6589

9/2/2021 (Rev. 2)

Client: WSP USA Inc. Job ID: 890-1106-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

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

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6591** Prep Batch: 6589

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 832 6 mg/Kg 83 70 - 130

C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 97 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-6589/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591

Prep Batch: 6589 LCSD LCSD RPD Spike %Rec. Result Qualifier RPD Limit **Analyte** Added Unit %Rec Limits D Gasoline Range Organics 1000 902.4 90 70 - 130 10 20 mg/Kg (GRO)-C6-C10 20 Diesel Range Organics (Over 1000 833.9 mg/Kg 83 70 - 130 O C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 98 o-Terphenyl 99 70 - 130

Lab Sample ID: 890-1100-A-81-H MS

Matrix: Solid

Analysis Batch: 6591

Prep Batch: 6589 Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 995 1032 mg/Kg 104 70 - 130 (GRO)-C6-C10 995 843.5 Diesel Range Organics (Over <50.0 U mg/Kg 85 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-1100-A-81-I MSD

Matrix: Solid

Analysis Batch: 6591

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 6589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Gasoline Range Organics Ū 998 <50.0 981.7 mg/Kg 98 70 - 130 5 20 (GRO)-C6-C10 998 844.9 85 70 - 130 20 Diesel Range Organics (Over <50.0 U mg/Kg O C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	88		70 - 130

Client: WSP USA Inc. Job ID: 890-1106-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6601/1-A **Client Sample ID: Method Blank Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 6618

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac **Prepared** 08/16/21 13:53 Chloride 5.00 <5.00 U mg/Kg

Lab Sample ID: LCS 880-6601/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 6618

Spike LCS LCS %Rec. **Analyte** Added Result Qualifier Unit D %Rec Limits Chloride 250 251.0 90 - 110 mg/Kg 100

Lab Sample ID: LCSD 880-6601/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 6618

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit %Rec 20

Chloride 250 252.5 101 90 - 110 mg/Kg

QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1 SDG: TEO12921045

GC VOA

Prep Batch: 6596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1106-1	SW09	Total/NA	Solid	5035	
MB 880-6596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1106-1	SW09	Total/NA	Solid	8021B	6596
MB 880-6596/5-A	Method Blank	Total/NA	Solid	8021B	6596
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	8021B	6596
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6596
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	6596
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6596

GC Semi VOA

Prep Batch: 6589

Lab Sample ID 890-1106-1	Client Sample ID SW09	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1106-1	SW09	Total/NA	Solid	8015B NM	6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6589
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6601

Lab Sample ID 890-1106-1	Client Sample ID SW09	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-6601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1106-1	SW09	Soluble	Solid	300.0	6601
MB 880-6601/1-A	Method Blank	Soluble	Solid	300.0	6601
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	300.0	6601
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6601

Date Received: 08/13/21 09:30

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1106-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Client Sample ID: SW09 Lab Sample ID: 890-1106-1 Date Collected: 08/12/21 15:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6596	08/16/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/16/21 15:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6591	08/16/21 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			6601	08/16/21 11:01	CH	XEN MID
Soluble	Analysis	300.0		1	6618	08/16/21 15:17	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1

SDG: TEO12921045

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	<u> </u>	NELAP	T104704400-20-21	06-30-22
0 ,		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not on the Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1

SDG: TEO12921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1106-1

SDG: TEO12921045

Lab Sample ID Client Sample ID Collected Matrix Received Depth 890-1106-1 SW09 Solid 08/12/21 15:00 08/13/21 09:30 0 - 7

121314

Chain of Custody

Work Order No:

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

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		usly negotiated.	zed. These terms will be enforced unless previously negotiated.	o, but not analyz	itted to Xence	r each sample subm	and a charge of \$5 fo	each project	\$75.00 will be applied to	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	F
		erms and conditions s beyond the control		> Xenco, its affill ses incurred by t	it company to les or expens	hase order from clien onsibility for any loss	nstitutes a valid purc not assume any resp	of samples co	nt and relinquishment on the samp	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses	0 7
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L	lab, if received by 4:30pm		-			er of	Total Containers:		Yes Wo N/A	Sample Custody Seals:	
	TAT starts the day recevied by the	TATS	-	_		Co	Correction Factor:		3	Cooler Custody Seals:	_
			890-1106 Chain of Custody		, i cal	+	NIM -OO		(Yes No	Received Intact:	_
)			Thermometer ID		2.2/2.0	Temperature (°C):	_
						Yeg No	lo Wet Ice:	Yes No	Temp Blank	SAMPLE RECEIPT	_
61994	Incident #: NAPP2110461994	Incide)ate:	Due Date:		Luis Del Val	Sampler's Name: Luis	_
	API: 30-015-37588					Rush: 24 hr		59804100	Cost Center: 1598041001	P.O. Number:	_
XP.01	AFE: PA.2020.02331.EXP.01	AFE:					Routine	21045	TE012921045	Project Number:	_
G	Work Order Notes		ANALYSIS REQUEST			Turn Around		1 State #1	Elk Wallow 11 State #1	Project Name:	_
	Other:	Deliverables: EDD		oma.morriss	o.com; tac	Email: uis.delval@wsp.com; tacoma.morrissey@wsp.com	Email:		432.236.3849	Phone: 432.	_
	vel IV	Level III LST/UST		Carlsbad, NM 88220	Carlsba	City, State ZIP:			Midland, TX 79705	City, State ZIP: Midli	
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	☐RC ☐uperfund	Program: UST/PST ☐PRP ☐Brownfields	Progra	nergy	XTO Energy	Company Name:			WSP USA Inc.	Company Name: WSF	
9/2	ints	Work Order Comments		treil	Kyle Littrell	Bill to: (if different)			Tacoma Morrissey	Project Manager: Tacc	
/202	ige of	www.xenco.com Page	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	X (915)585-344)0) Atlanta,GA	EL Paso,T) 480-355-090	TX (432-704-5440) 7550) Phoenix,AZ (Midland obbs,NM (575-392-7	Ī	LABORATORIES	LABER	

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1106-1 SDG Number: TEO12921045

Login Number: 1106 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

Answer Comment Question 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 True tampered with. Samples were received on ice. True Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True True COC is filled out in ink and legible. 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 True HTs) True Sample containers have legible labels. Containers are not broken or leaking. True True Sample collection date/times are provided. Appropriate sample containers are used. True True Sample bottles are completely filled. Sample Preservation Verified. N/A There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1106-1 SDG Number: TEO12921045

Login Number: 1106 List Source: Eurofins Xenco, Midland List Creation: 08/16/21 10:33 AM List Number: 2

Creator: Copeland, Tatiana

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

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1107-1

Laboratory Sample Delivery Group: TEO12921045

Client Project/Site: Elk Wallow 22 State #1

Revision: 1

For:

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

Attn: Tacoma Morrissey

J. KRAMER

Authorized for release by: 8/18/2021 8:59:26 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

Released to Imaging: 2/8/2022 8:45:41 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: 890-1107-1

Project/Site: Elk Wallow 22 State #1

SDG: TEO12921045

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1

SDG: TEO12921045

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

Case Narrative

Client: WSP USA Inc.

Project/Site: Elk Wallow 22 State #1

Job ID: 890-1107-1

SDG: TEO12921045

Job ID: 890-1107-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1107-1

REVISION

The report being provided is a revision of the original report sent on 8/16/2021. The report (revision 0) is being revised due to .

Receipt

The sample was received on 8/13/2021 9:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

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

GC Semi VOA

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

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

Eurofins Xenco, Carlsbad 8/18/2021 (Rev. 1)

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

Lab Sample ID: 890-1107-1 **Client Sample ID: FS09**

Date Collected: 08/12/21 15:32 **Matrix: Solid** Date Received: 08/13/21 09:30

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
Xylenes, Total	< 0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/16/21 09:50	08/16/21 14:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			08/16/21 09:50	08/16/21 14:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130			08/16/21 09:50	08/16/21 14:24	1
Method: 8015B NM - Diesel R Analyte		ics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 17:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 17:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 17:48	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/16/21 08:50	08/16/21 17:48	1
o-Terphenyl	104		70 - 130			08/16/21 08:50	08/16/21 17:48	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					
Method. 300.0 - Amons, ion C	in omatogra							
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Job ID: 890-1107-1 Client: WSP USA Inc. Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•			Per	cent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5117-A-1-B MS	Matrix Spike	110	104	
880-5117-A-1-C MSD	Matrix Spike Duplicate	110	108	
890-1107-1	FS09	119	108	
LCS 880-6596/1-A	Lab Control Sample	103	107	
LCSD 880-6596/2-A	Lab Control Sample Dup	106	107	
MB 880-6596/5-A	Method Blank	101	96	
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			
DFBZ = 1,4-Difluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

			Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1100-A-81-H MS	Matrix Spike	92	87	
890-1100-A-81-I MSD	Matrix Spike Duplicate	91	88	
890-1107-1	FS09	97	104	
LCS 880-6589/2-A	Lab Control Sample	97	97	
LCSD 880-6589/3-A	Lab Control Sample Dup	98	99	
MB 880-6589/1-A	Method Blank	107	118	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6596/5-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6596

	MB ME	3					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200 U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	
Toluene	<0.00200 U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	
o-Xylene	<0.00200 U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	
Total BTEX	<0.00400 U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	08/16/21 09:50	08/16/21 13:22	1
1,4-Difluorobenzene (Surr)	96	70 - 130	08/16/21 09:50	08/16/21 13:22	1

Lab Sample ID: LCS 880-6596/1-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6596

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.09300		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09098		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1831		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09076		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-6596/2-A

Matrix: Solid

Analysis Batch: 6599

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

Prep Type: Total/NA

Prep Batch: 6596

	Spike	LCSD LCSD			%Rec.		RPD
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.09968	mg/Kg	100	70 - 130	1	35
Toluene	0.100	0.09328	mg/Kg	93	70 - 130	0	35
Ethylbenzene	0.100	0.09297	mg/Kg	93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1875	mg/Kg	94	70 - 130	2	35
o-Xylene	0.100	0.09331	mg/Kg	93	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 880-5117-A-1-B MS

Matrix: Solid

Analysis Batch: 6599									Prep	Batch:	6596
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U	0.0996	0.08209		mg/Kg		82	70 - 130		

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike

1

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

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

Lab Sample ID: 880-5117-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Total/NA Matrix: Solid Analysis Batch: 6599** Prep Batch: 6596

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00201	U	0.0996	0.07676		mg/Kg		77	70 - 130	
Ethylbenzene	< 0.00201	U	0.0996	0.07523		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1510		mg/Kg		76	70 - 130	
o-Xylene	<0.00201	U	0.0996	0.07556		mg/Kg		76	70 - 130	

MS MS %Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 110 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 880-5117-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 6599									Prep	Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.08015		mg/Kg		81	70 - 130	2	35
Toluene	<0.00201	U	0.0994	0.07443		mg/Kg		75	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0994	0.07144		mg/Kg		72	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1444		mg/Kg		73	70 - 130	4	35
o-Xylene	<0.00201	U	0.0994	0.07223		mg/Kg		73	70 - 130	5	35

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 108 70 - 130

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

Lab Sample ID: MB 880-6589/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Prep Batch: 6589 **Analysis Batch: 6591**

	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	<u> </u>	08/16/21 08:50	08/16/21 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 08:50	08/16/21 11:24	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/16/21 08:50	08/16/21 11:24	1
o-Terphenyl	118		70 - 130	08/16/21 08:50	08/16/21 11:24	1

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6591 Prep Batch: 6589 LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits

Analyte Gasoline Range Organics 1000 814.9 mg/Kg 81 70 - 130

(GRO)-C6-C10

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8/18/2021 (Rev. 1)

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

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

Lab Sample ID: LCS 880-6589/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6591** Prep Batch: 6589

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 832 6 mg/Kg 83 70 - 130

C10-C28)

	LC3 LC3				
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	97		70 - 130		
o-Terphenyl	97		70 - 130		

Lab Sample ID: LCSD 880-6589/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Matrix: Solid Analysis Batch: 6591** Prep Batch: 6589 Spike LCSD LCSD RPD %Rec. Added Result Qualifier Limits RPD Limit **Analyte** Unit %Rec

Gasoline Range Organics 1000 902.4 90 70 - 130 10 20 mg/Kg (GRO)-C6-C10 1000 833.9 20 Diesel Range Organics (Over mg/Kg 83 70 - 130 O

C10-C28)

	LOOD	LUUD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

ICSD ICSD

Lab Sample ID: 890-1100-A-81-H MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA**

Prep Batch: 6589 **Analysis Batch: 6591**

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1032		mg/Kg		104	70 - 130	
Diesel Range Organics (Over	<50.0	U	995	843.5		mg/Kg		85	70 - 130	

C10-C28)

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1100-A-81-I MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid Analysis Batch: 6591

Prep Batch: 6589 Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <50.0 U 998 981.7 mg/Kg 98 70 - 130 5 20 (GRO)-C6-C10 998 <50.0 U 844.9 85 70 - 130 20 Diesel Range Organics (Over mg/Kg 0

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	88		70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6601/1-A **Matrix: Solid**

Analysis Batch: 6618 MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac **Prepared** Chloride 5.00 08/16/21 13:53 <5.00 U mg/Kg

Lab Sample ID: LCS 880-6601/2-A

Matrix: Solid

Analysis Batch: 6618

Spike LCS LCS %Rec. **Analyte** Added Result Qualifier Unit D %Rec Limits Chloride 250 251.0 90 - 110 mg/Kg 100

Lab Sample ID: LCSD 880-6601/3-A

Matrix: Solid

Analysis Batch: 6618

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 250 252.5 101 90 - 110 20 mg/Kg

QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 22 State #1

Job ID: 890-1107-1 SDG: TEO12921045

921045

GC VOA

Prep Batch: 6596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1107-1	FS09	Total/NA	Solid	5035	
MB 880-6596/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 6599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1107-1	FS09	Total/NA	Solid	8021B	6596
MB 880-6596/5-A	Method Blank	Total/NA	Solid	8021B	6596
LCS 880-6596/1-A	Lab Control Sample	Total/NA	Solid	8021B	6596
LCSD 880-6596/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6596
880-5117-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	6596
880-5117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6596

GC Semi VOA

Prep Batch: 6589

Lab Sample ID 890-1107-1	Client Sample ID FS09	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6591

Lab Sample ID 890-1107-1	Client Sample ID FS09	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 6589
MB 880-6589/1-A	Method Blank	Total/NA	Solid	8015B NM	6589
LCS 880-6589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6589
LCSD 880-6589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6589
890-1100-A-81-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6589
890-1100-A-81-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6589

HPLC/IC

Leach Batch: 6601

Lab Sample ID 890-1107-1	Client Sample ID FS09	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-6601/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 6618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1107-1	FS09	Soluble	Solid	300.0	6601
MB 880-6601/1-A	Method Blank	Soluble	Solid	300.0	6601
LCS 880-6601/2-A	Lab Control Sample	Soluble	Solid	300.0	6601
LCSD 880-6601/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6601

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Lab Chronicle

Client: WSP USA Inc.

Project/Site: Elk Wallow 22 State #1

Job ID: 890-1107-1

SDG: TEO12921045

Lab Sample ID: 890-1107-1

Client Sample ID: FS09

Date Collected: 08/12/21 15:32

Date Received: 08/13/21 09:30

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6596	08/16/21 09:50	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/16/21 14:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			6589	08/16/21 08:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6591	08/16/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			6601	08/16/21 11:01	CH	XEN MID
Soluble	Analysis	300.0		1	6618	08/16/21 15:22	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1107-1 Project/Site: Elk Wallow 22 State #1 SDG: TEO12921045

Laboratory: Eurofins Xenco, Midland

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

Authority	F	Program	Identification Number	Expiration Date
Texas	<u> </u>	NELAP	T104704400-20-21	06-30-22
0 ,		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whic
the agency does not on Analysis Method	offer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 22 State #1

Job ID: 890-1107-1

SDG: TEO12921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 22 State #1

Job ID: 890-1107-1

SDG: TEO12921045

Lab Sample ID Client Sample ID Collected Matrix Received Depth 890-1107-1 FS09 Solid 08/12/21 15:32 08/13/21 09:30

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	432.236.3849			Email: <u>lui</u>	luis.delval@wsp.com; tacoma.morrissey@wsp.com	/sp.cc	m; ta	coma	.morr	issey@v	/sp.com		L	Deliverables: EDD	rables	EDD			ADaF	ADaPT 🗆		Other			L
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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.	cument and relinquish	nent of sample	s constitutes a	valid purchas	se order from c	ient co	npany	to Xenc	ö, its at	filiates and	subcontra		ssigns s	It assigns standard terms and conditions	terms	nd con	ditions			11					
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 ar 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 an	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 Aminimum 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.	samples and s lied to each pro	hall not assum bject and a cha	e any respons rge of \$5 for e	sibility for any I ach sample sul	osses c	to Xeno	nses inc co, but	curred t	y the clien lyzed. Thes	t if such los e terms wil	ses are du	e to cir	due to circumstances beyond the coorced unless previously negotiated.	ces bey	ond the	d.	_							
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1107-1 SDG Number: TEO12921045

Login Number: 1107 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Olivas, Nathaniel

<6mm (1/4").

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

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1107-1 SDG Number: TEO12921045

Login Number: 1107 List Source: Eurofins Xenco, Midland List Creation: 08/16/21 10:34 AM List Number: 2

Creator: Copeland, Tatiana

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

Eurofins Xenco, Carlsbad

Released to Imaging: 2/8/2022 8:45:41 AM

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1109-1

Laboratory Sample Delivery Group: TEO12921045

Client Project/Site: Elk Wallow 11 State #1

Revision: 1

For:

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

Attn: Tacoma Morrissey

RAMPR

Authorized for release by: 9/2/2021 10:01:12 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 2/8/2022 8:45:41 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.

Client: WSP USA Inc.

Laboratory Job ID: 890-1109-1

Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, low biased.

*1 LCS/LCSD RPD exceeds control limits.

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Job ID: 890-1109-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1109-1

REVISION

The report being provided is a revision of the original report sent on 8/19/2021. The report (revision 0) is being revised due to .

Receipt

The samples were received on 8/13/2021 10:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-6476 and analytical batch 880-6599 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-6476 and analytical batch 880-6599 recovered outside control limits for the following analytes: Benzene

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6609 and analytical batch 880-6610 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client: WSP USA Inc.

Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Cli

Dat Date Received: 08/13/21 10:13

Sample Depth: 0 - 7

lient Sample ID: SW08	Lab Sample ID: 890-1109-1
ate Collected: 08/12/21 14:50	Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			08/16/21 16:39	08/17/21 06:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/16/21 16:39	08/17/21 06:22	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:36	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:36	1
Total TPH	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			08/16/21 12:02	08/16/21 22:36	1
o-Terphenyl	98		70 - 130			08/16/21 12:02	08/16/21 22:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	66.0	4.95	mg/Kg			08/18/21 19:46	1

Client Sample ID: FS08 Lab Sample ID: 890-1109-2 Date Collected: 08/12/21 15:30 Matrix: Solid

Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/16/21 16:39	08/17/21 06:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			08/16/21 16:39	08/17/21 06:43	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/16/21 16:39	08/17/21 06:43	1

Job ID: 890-1109-1

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Client Sample ID: FS08 Lab Sample ID: 890-1109-2

Date Collected: 08/12/21 15:30 **Matrix: Solid** Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:57	1
Total TPH	<49.9	U	49.9	mg/Kg		08/16/21 12:02	08/16/21 22:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			08/16/21 12:02	08/16/21 22:57	1
o-Terphenyl	94		70 - 130			08/16/21 12:02	08/16/21 22:57	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		4.97	mg/Kg			08/18/21 19:52	1

Client Sample ID: FS10 Lab Sample ID: 890-1109-3

Date Collected: 08/12/21 15:36 **Matrix: Solid**

Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *- *1	0.00198	mg/Kg		08/16/21 08:30	08/17/21 07:03	1
Toluene	< 0.00198	U	0.00198	mg/Kg		08/16/21 08:30	08/17/21 07:03	1
Ethylbenzene	< 0.00198	U	0.00198	mg/Kg		08/16/21 08:30	08/17/21 07:03	
m-Xylene & p-Xylene	< 0.00396	U	0.00396	mg/Kg		08/16/21 08:30	08/17/21 07:03	
o-Xylene	< 0.00198	U	0.00198	mg/Kg		08/16/21 08:30	08/17/21 07:03	
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		08/16/21 08:30	08/17/21 07:03	•
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/16/21 08:30	08/17/21 07:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130			08/16/21 08:30	08/17/21 07:03	
1,4-Difluorobenzene (Surr)	96		70 - 130			08/16/21 08:30	08/17/21 07:03	
Method: 8015B NM - Diesel R Analyte		ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL		<u>D</u>			Dil Fa
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 08/16/21 12:02		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	08/16/21 12:02		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u> </u>	08/16/21 12:02 08/16/21 12:02	08/16/21 23:17	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U U	49.8 49.8	mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17	
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 <49.8	Qualifier U U U U	49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17 08/16/21 23:17	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII 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 U	49.8 49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	## 49.8 49.8 49.8 ## 49.8 ## Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 Prepared 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 Analyzed	
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 <80 <49.8 <80 <80 <98 <98 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80 <80	Qualifier U U U Qualifier	## A 49.8 49.8 49.8 49.8 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 Prepared 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 Analyzed 08/16/21 23:17	
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 <49.8 <49.8 <49.8 <49.8 <49.8 <80.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <60.0 <	Qualifier U U U Qualifier	## A 49.8 49.8 49.8 49.8 **Limits** 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 08/16/21 12:02 Prepared 08/16/21 12:02	08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 08/16/21 23:17 Analyzed 08/16/21 23:17	Dil Fac

Eurofins Xenco, Carlsbad

9/2/2021 (Rev. 1)

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1 SDG: TEO12921045

Lab Sample ID: 890-1109-4

Matrix: Solid

Client Sample ID: FS11 Date Collected: 08/12/21 15:45

Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		08/16/21 08:30	08/17/21 07:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			08/16/21 08:30	08/17/21 07:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/16/21 08:30	08/17/21 07:24	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 23:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 23:59	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			08/16/21 12:02	08/16/21 23:59	1
o-Terphenyl	99		70 - 130			08/16/21 12:02	08/16/21 23:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	46.4		4.98	mg/Kg			08/18/21 20:14	1

Lab Sample ID: 890-1109-5 **Client Sample ID: FS13** Date Collected: 08/12/21 15:53 Matrix: Solid Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/16/21 08:30	08/17/21 07:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			08/16/21 08:30	08/17/21 07:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/16/21 08:30	08/17/21 07:44	1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-1109-1
Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Client Sample ID: FS13 Lab Sample ID: 890-1109-5

Date Collected: 08/12/21 15:53 Matrix: Solid
Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/17/21 00:20	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/17/21 00:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/17/21 00:20	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/17/21 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			08/16/21 12:02	08/17/21 00:20	1
o-Terphenyl	91		70 - 130			08/16/21 12:02	08/17/21 00:20	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solι	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.2		4.95	mg/Kg			08/18/21 20:20	

Client Sample ID: FS14 Lab Sample ID: 890-1109-6

Date Collected: 08/12/21 16:00 Matrix: Solid

Date Received: 08/13/21 10:13

Sample Depth: - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/16/21 08:30	08/17/21 08:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			08/16/21 08:30	08/17/21 08:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130			08/16/21 08:30	08/17/21 08:04	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Method: 8015B NM - Diesel R Analyte		ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•	Unit mg/Kg	_ <u>D</u>	Prepared 08/16/21 12:02	Analyzed 08/17/21 00:41	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U	RL		_ <u>D</u>		08/17/21 00:41	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	08/16/21 12:02	08/17/21 00:41 08/17/21 00:41	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U U	49.9 49.9	mg/Kg	_ <u>D</u>	08/16/21 12:02 08/16/21 12:02	08/17/21 00:41 08/17/21 00:41 08/17/21 00:41	Dil Fac 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	RL 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/16/21 12:02 08/16/21 12:02 08/16/21 12:02	08/17/21 00:41 08/17/21 00:41 08/17/21 00:41	Dil Fac 1 1 1 Dil Fac

Method: 300.0 - Anions, Ion Ch	romatography - Solub	le					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2	5.00	mg/Kg			08/18/21 20:26	1

70 - 130

95

Eurofins Xenco, Carlsbad

08/16/21 12:02 08/17/21 00:41

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o-Terphenyl

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5041-A-1-E MS	Matrix Spike	112	106	
880-5041-A-1-F MSD	Matrix Spike Duplicate	117	101	
890-1109-1	SW08	129	96	
890-1109-2	FS08	126	96	
890-1109-3	FS10	118	96	
890-1109-4	FS11	123	92	
890-1109-5	FS13	118	96	
890-1109-6	FS14	118	98	
LCS 880-6476/1-A	Lab Control Sample	107	106	
LCSD 880-6476/2-A	Lab Control Sample Dup	111	107	
MB 880-6476/5-A	Method Blank	122	98	
MB 880-6596/5-A	Method Blank	101	96	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent 9	Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5111-A-1-E MS	Matrix Spike	74	74	
880-5111-A-1-F MSD	Matrix Spike Duplicate	74	74	
890-1109-1	SW08	87	98	
890-1109-2	FS08	83	94	
890-1109-3	FS10	86	98	
890-1109-4	FS11	87	99	
890-1109-5	FS13	82	91	
890-1109-6	FS14	83	95	
LCS 880-6609/2-A	Lab Control Sample	93	100	
LCSD 880-6609/3-A	Lab Control Sample Dup	88	95	
MB 880-6609/1-A	Method Blank	99	112	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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QC Sample Results

Job ID: 890-1109-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6476/5-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6476

	MB M	В				
Analyte	Result Q	ualifier RL	Unit [Prepared	Analyzed	Dil Fa
Benzene	<0.00200 U	0.00200	mg/Kg	08/16/21 16:39	08/17/21 00:14	
Toluene	<0.00200 U	0.00200	mg/Kg	08/16/21 16:39	08/17/21 00:14	
Ethylbenzene	<0.00200 U	0.00200	mg/Kg	08/16/21 16:39	08/17/21 00:14	
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg	08/16/21 16:39	08/17/21 00:14	
o-Xylene	<0.00200 U	0.00200	mg/Kg	08/16/21 16:39	08/17/21 00:14	
Xylenes, Total	<0.00400 U	0.00400	mg/Kg	08/16/21 16:39	08/17/21 00:14	
Total BTEX	<0.00400 U	0.00400	mg/Kg	08/16/21 16:39	08/17/21 00:14	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	<u>08/16/21 16:39</u>	08/17/21 00:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/16/21 16:39	08/17/21 00:14	1

Lab Sample ID: LCS 880-6476/1-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6476

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.03564	*_	mg/Kg		36	70 - 130	
Toluene	0.100	0.08815		mg/Kg		88	70 - 130	
Ethylbenzene	0.100	0.08786		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1764		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.09019		mg/Kg		90	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-6476/2-A

Matrix: Solid

Analysis Batch: 6599

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6476

	Spike	LCSD LC	CSD				%Rec.		RPD
Analyte	Added	Result Qu	ualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09517 *1		mg/Kg		95	70 - 130	91	35
Toluene	0.100	0.08807		mg/Kg		88	70 - 130	0	35
Ethylbenzene	0.100	0.08866		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1802		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.09195		mg/Kg		92	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 880-5041-A-1-E MS

Ma

Analysis Batch: 6599										pe: Total/NA Batch: 6476
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *- *1	0.101	0.08062		mg/Kg		80	70 - 130	

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Client Sample ID: Matrix Spike

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

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

Lab Sample ID: 880-5041-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Total/NA** Prep Batch: 6476 **Analysis Batch: 6599**

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.101	0.07730		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.07614		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1550		mg/Kg		77	70 - 130	
o-Xylene	<0.00200	U	0.101	0.07815		mg/Kg		77	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-5041-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6599									Prep	: 6476	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *- *1	0.0996	0.07899		mg/Kg		79	70 - 130	2	35
Toluene	<0.00200	U	0.0996	0.07743		mg/Kg		78	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.0996	0.07670		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1583		mg/Kg		79	70 - 130	2	35
o-Xylene	<0.00200	U	0.0996	0.08007		mg/Kg		80	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-6596/5-A **Client Sample ID: Method Blank** Matrix: Solid **Prep Type: Total/NA Analysis Batch: 6599** Prep Batch: 6596

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/16/21 09:50	08/16/21 13:22	1
The state of the s								

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/16/21 09:50	08/16/21 13:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/16/21 09:50	08/16/21 13:22	1

Client: WSP USA Inc. Job ID: 890-1109-1 Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

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

Lab Sample ID: MB 880-6609/1-A

Matrix: Solid

Analysis Batch: 6610

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6609

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Ū	50.0	mg/Kg		08/16/21 12:02	08/16/21 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 14:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 14:21	1
Total TPH	<50.0	U	50.0	mg/Kg		08/16/21 12:02	08/16/21 14:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/16/21 12:02 08/	3/16/21 14:21	1
o-Terphenyl	112		70 - 130	08/16/21 12:02 08/	3/16/21 14:21	1

Lab Sample ID: LCS 880-6609/2-A

Matrix: Solid

Analysis Batch: 6610

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

Prep Batch: 6609

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 959.3 mg/Kg 96 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1029 mg/Kg 103 70 - 130

C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: LCSD 880-6609/3-A

Matrix: Solid

Analysis Batch: 6610

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 6609

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 839.5 84 70 - 130 20 mg/Kg 13 (GRO)-C6-C10 Diesel Range Organics (Over 1000 987.4 mg/Kg 99 70 - 130 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88 70 - 130 o-Terphenyl 95

Lab Sample ID: 880-5111-A-1-E MS

Matrix: Solid

Analysis Batch: 6610

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

Prep Batch: 6609

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	676.7	F1	mg/Kg		68	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	995	793.1		mg/Kg		80	70 - 130	

Client: WSP USA Inc. Job ID: 890-1109-1 SDG: TEO12921045 Project/Site: Elk Wallow 11 State #1

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

Lab Sample ID: 880-5111-A-1-E MS

Matrix: Solid

Analysis Batch: 6610

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 6609

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 74 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 880-5111-A-1-F MSD

Matrix: Solid

Analysis Batch: 6610

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 6609

RPD %Rec. Limits RPD Limit

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Gasoline Range Organics <50.0 U F1 998 733.7 mg/Kg 74 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 792.2 mg/Kg 79 70 - 130 0 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 74 70 - 130 o-Terphenyl 74

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6603/1-A

Matrix: Solid

Analysis Batch: 6755

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

Client Sample ID: Lab Control Sample

Prep Type: Soluble

MB MB Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 08/18/21 19:01 mg/Kg

Lab Sample ID: LCS 880-6603/2-A

Matrix: Solid

Analysis Batch: 6755

Spike LCS LCS %Rec. Analyte Added Result Qualifier D %Rec Limits Unit 250 252.5 Chloride mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-6603/3-A

Matrix: Solid

Analysis Batch: 6755

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit %Rec RPD Limit Chloride 250 255.7 mg/Kg 102 90 - 110

Lab Sample ID: 890-1108-A-2-C MS

Released to Imaging: 2/8/2022 8:45:41 AM

Matrix: Solid

Analyte

Chloride

Analysis Batch: 6755

Sample	Sample	Spike	MS	MS				%Rec.
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
24.0		250	268.5		mg/Kg		98	90 - 110

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

Client Sample ID: Matrix Spike Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1

SDG: TEO12921045

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1108-A-2-D MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analysis Batch: 6755

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	24.0		250	268.7		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1 SDG: TEO12921045

GC VOA Prep Batch: 6476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Total/NA	Solid	5035	
890-1109-2	FS08	Total/NA	Solid	5035	
890-1109-3	FS10	Total/NA	Solid	5035	
890-1109-4	FS11	Total/NA	Solid	5035	
890-1109-5	FS13	Total/NA	Solid	5035	
890-1109-6	FS14	Total/NA	Solid	5035	
MB 880-6476/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6476/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6476/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5041-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-5041-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 6596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6596/5-A	Method Blank	Total/NA	Solid	5035	_

Analysis Batch: 6599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Total/NA	Solid	8021B	6476
890-1109-2	FS08	Total/NA	Solid	8021B	6476
890-1109-3	FS10	Total/NA	Solid	8021B	6476
890-1109-4	FS11	Total/NA	Solid	8021B	6476
890-1109-5	FS13	Total/NA	Solid	8021B	6476
890-1109-6	FS14	Total/NA	Solid	8021B	6476
MB 880-6476/5-A	Method Blank	Total/NA	Solid	8021B	6476
MB 880-6596/5-A	Method Blank	Total/NA	Solid	8021B	6596
LCS 880-6476/1-A	Lab Control Sample	Total/NA	Solid	8021B	6476
LCSD 880-6476/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6476
880-5041-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	6476
880-5041-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	6476

GC Semi VOA

Prep Batch: 6609

. Top Datom Cook					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Total/NA	Solid	8015NM Prep	
890-1109-2	FS08	Total/NA	Solid	8015NM Prep	
890-1109-3	FS10	Total/NA	Solid	8015NM Prep	
890-1109-4	FS11	Total/NA	Solid	8015NM Prep	
890-1109-5	FS13	Total/NA	Solid	8015NM Prep	
890-1109-6	FS14	Total/NA	Solid	8015NM Prep	
MB 880-6609/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6609/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6609/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5111-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5111-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Total/NA	Solid	8015B NM	6609
890-1109-2	FS08	Total/NA	Solid	8015B NM	6609

Eurofins Xenco, Carlsbad

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9/2/2021 (Rev. 1)

QC Association Summary

Job ID: 890-1109-1 Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1 SDG: TEO12921045

GC Semi VOA (Continued)

Analysis Batch: 6610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-3	FS10	Total/NA	Solid	8015B NM	6609
890-1109-4	FS11	Total/NA	Solid	8015B NM	6609
890-1109-5	FS13	Total/NA	Solid	8015B NM	6609
890-1109-6	FS14	Total/NA	Solid	8015B NM	6609
MB 880-6609/1-A	Method Blank	Total/NA	Solid	8015B NM	6609
LCS 880-6609/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6609
LCSD 880-6609/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6609
880-5111-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6609
880-5111-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6609

HPLC/IC

Leach Batch: 6603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Soluble	Solid	DI Leach	
890-1109-2	FS08	Soluble	Solid	DI Leach	
890-1109-3	FS10	Soluble	Solid	DI Leach	
890-1109-4	FS11	Soluble	Solid	DI Leach	
890-1109-5	FS13	Soluble	Solid	DI Leach	
890-1109-6	FS14	Soluble	Solid	DI Leach	
MB 880-6603/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6603/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6603/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1108-A-2-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1108-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1109-1	SW08	Soluble	Solid	300.0	6603
890-1109-2	FS08	Soluble	Solid	300.0	6603
890-1109-3	FS10	Soluble	Solid	300.0	6603
890-1109-4	FS11	Soluble	Solid	300.0	6603
890-1109-5	FS13	Soluble	Solid	300.0	6603
890-1109-6	FS14	Soluble	Solid	300.0	6603
MB 880-6603/1-A	Method Blank	Soluble	Solid	300.0	6603
LCS 880-6603/2-A	Lab Control Sample	Soluble	Solid	300.0	6603
LCSD 880-6603/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6603
890-1108-A-2-C MS	Matrix Spike	Soluble	Solid	300.0	6603
890-1108-A-2-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6603

Lab Chronicle

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1 SDG: TEO12921045

SDG: TEO12921045

Client Sample ID: SW08

Date Collected: 08/12/21 14:50 Date Received: 08/13/21 10:13 Lab Sample ID: 890-1109-1

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6476	08/16/21 16:39	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/17/21 06:22	KL	XEN MID
Total/NA	Prep	8015NM Prep			6609	08/16/21 12:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6610	08/16/21 22:36	AJ	XEN MID
Soluble	Leach	DI Leach			6603	08/16/21 11:12	СН	XEN MID
Soluble	Analysis	300.0		1	6755	08/18/21 19:46	CH	XEN MID

Client Sample ID: FS08

Date Collected: 08/12/21 15:30 Date Received: 08/13/21 10:13 Lab Sample ID: 890-1109-2

Matrix: Solid

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Prep 5035 6476 08/16/21 16:39 KL XEN MID Total/NA 8021B Analysis 6599 08/17/21 06:43 KL XEN MID 1 Total/NA Prep 8015NM Prep 08/16/21 12:02 DM **XEN MID** Total/NA 8015B NM XEN MID Analysis 6610 08/16/21 22:57 AJ 1 Soluble Leach DI Leach 6603 08/16/21 11:12 CH XEN MID 6755 08/18/21 19:52 CH Soluble Analysis 300.0 **XEN MID** 1

Client Sample ID: FS10

Date Collected: 08/12/21 15:36

Date Received: 08/13/21 10:13

Lab Sample ID: 890-1109-3

Matrix: Solid

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6476	08/16/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/17/21 07:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			6609	08/16/21 12:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6610	08/16/21 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			6603	08/16/21 11:12	СН	XEN MID
Soluble	Analysis	300.0		1	6755	08/18/21 20:09	CH	XEN MID

Client Sample ID: FS11

Date Collected: 08/12/21 15:45

Date Received: 08/13/21 10:13

Lab Sample	ID:	890-1109-4	
		Matrix: Calid	

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6476	08/16/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/17/21 07:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			6609	08/16/21 12:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6610	08/16/21 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			6603	08/16/21 11:12	СН	XEN MID
Soluble	Analysis	300.0		1	6755	08/18/21 20:14	CH	XEN MID

Eurofins Xenco, Carlsbad

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Lah Sample ID: 900 1100 4

Lab Chronicle

Client: WSP USA Inc. Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1 SDG: TEO12921045

Client Sample ID: FS13

Lab Sample ID: 890-1109-5

Matrix: Solid

Date Collected: 08/12/21 15:53 Date Received: 08/13/21 10:13

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6476	08/16/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/17/21 07:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			6609	08/16/21 12:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6610	08/17/21 00:20	AJ	XEN MID
Soluble	Leach	DI Leach			6603	08/16/21 11:12	CH	XEN MID
Soluble	Analysis	300.0		1	6755	08/18/21 20:20	CH	XEN MID

Client Sample ID: FS14 Lab Sample ID: 890-1109-6

Date Collected: 08/12/21 16:00 **Matrix: Solid**

Date Received: 08/13/21 10:13

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6476	08/16/21 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	6599	08/17/21 08:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			6609	08/16/21 12:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6610	08/17/21 00:41	AJ	XEN MID
Soluble	Leach	DI Leach			6603	08/16/21 11:12	CH	XEN MID
Soluble	Analysis	300.0		1	6755	08/18/21 20:26	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1109-1

Project/Site: Elk Wallow 11 State #1

SDG: TEO12921045

Laboratory: Eurofins Xenco, Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-20-21	06-30-22
The following analyte	s are included in this rep	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes fo
the agency does not	offer certification.	port, but the laboratory is not certified by the govern		The normal monage analytes is
the agency does not of Analysis Method	offer certification. Prep Method	Matrix	Analyte	
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Method Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1

SDG: TEO12921045

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Elk Wallow 11 State #1

Job ID: 890-1109-1

SDG: TEO12921045

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1109-1	SW08	Solid	08/12/21 14:50	08/13/21 10:13	0 - 7
890-1109-2	FS08	Solid	08/12/21 15:30	08/13/21 10:13	- 7
890-1109-3	FS10	Solid	08/12/21 15:36	08/13/21 10:13	- 7
890-1109-4	FS11	Solid	08/12/21 15:45	08/13/21 10:13	- 7
890-1109-5	FS13	Solid	08/12/21 15:53	08/13/21 10:13	- 7
890-1109-6	FS14	Solid	08/12/21 16:00	08/13/21 10:13	- 7

State of Project:	3104 E Green Street	Address:		et
Program: UST/PST PRP [Company Name: XTO Energy		
Work (Kyle Littrell	Bill to: (if different) Kyle Littrell		
20-2000) <u>www.xeno</u>	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	nd,TX (432-704-5440) El 2-7550) Phoenix,AZ (480	Midlar Hobbs,NM (575-39)	
	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	n,TX (281) 240-4200 Da	Housto	
Work Or	Chain of Custody	0		

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		re los of	11011	Relinquished by: (Signature)	nco. A minimum cha	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	Circle Method	Total 200.7 / 6010					FS14	FS13	FS11	FS10	FS08	SW04	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	ne:	P.O. Number:	Project Number:	Project Name:		te ZIP:	Address:		Project Manager:
			\	(Signature)	rge of \$75.00 will be	ocument and relinguished only for the cos	Circle Method(s) and Metal(s) to be analyzed	110 200.8 / 6020:										4	tification	_	Yes N	(1)	2.2		Luis Del Val	Cost Ce	7	Elk W	432.236.3849	Midland, TX 79705	3300 North A Street	WSP USA Inc.	Tacoma Morrissey
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				Received by (Signature)	a charge of \$5 to	utes a valid purc	TCLP / SPL	8RCRA 13PPM					1600	1553	1545	1536	1530	1450	Time Sampled	Total Containers:	Correction Factor:	SMA	Thermometer ID	Wet ice:	Due Date:	Rush:	Routine	I _I	Email:				
				re)	or each sample s	hase order from	TCLP / SPLP 6010: 8RCRA	M Texas 11					7'	7'	7'	7'	7'	0-7'	Depth			14	-	Yes No	Date:			Turn Around	Email: luis.delval@wsp.com; tacoma.morrissey@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
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Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1109-1 SDG Number: TEO12921045

Login Number: 1109 List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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: 890-1109-1 SDG Number: TEO12921045

Login Number: 1109 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 08/16/21 10:35 AM

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 <6mm (1/4").	True	

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

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

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

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 52409

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	52409
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	y Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NAPP2110461994 ELK WALLOW 11 STATE #1, thank you. This closure is approved.	2/8/2022