Incident ID NAPP2205649749 District RP Facility ID Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.	
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)	
□ Description of remediation activities		
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification to the Octaviance of the confaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including no	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.	
Printed Name:Adrian Baker		
Signature:Qarion Baks	Date: <u>05/12/2022</u>	
email:Adrian.Baker@exxonmobil.com_	Telephone:432-236-3808	
OCD Only		
Received by: Robert Hamlet	Date:6/21/2022	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by: Robert Hamlet	Date: 6/21/2022	
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	NAPP2205649749
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID 5	5380		
Contact Name Adrian Baker		Contact Te	Contact Telephone 432-236-3808			
Contact emai	il adrian.bak	er@exxonmobil.co	om	Incident #	(assigned by OCD)	
			Rd Bldg 5, Midlar	nd, Texas, 79707		
			Location	of Release So	ource	
Latitude 32	.60772			Longitude -	-103.89009	
			(NAD 83 in dec	imal degrees to 5 decim	nal places)	
Site Name I	Big Eddy Un	it DI 4		Site Type	Tank Battery	
Date Release				API# (if app	licable)	
Unit Letter	Section	Township	Dongo	Coun	4	
			Range	Coun	·	
В	05	20S	31E	Eddy	y	
Surface Owner	r: State	Federal Tr	ibal Private (A	Name:)
			NI-4	1 X 7 - 1 C T	3 - 1	
			Nature and	Volume of F	Keiease	
		l(s) Released (Select al	l that apply and attach	calculations or specific	justification for the v	olumes provided below)
✓ Crude Oil Volume Released (bbls) 0.48			Volume Recov	ered (bbls) 0.00		
Produced Water Volume Released (bbls)			Volume Recov	ered (bbls)		
Is the concentration of total dissolved solid in the produced water >10,000 mg/l?		` ,	☐ Yes ☐ No			
Condensate Volume Released (bbls)			Volume Recov	ered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recov	ered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weigh	t Recovered (provide units)		
Cause of Rel	ease HP flar	e line burped out r	esidual fluids, whi	ch ignited and self-	-extinguished on	the ground. A third-party contractor
	has bee	n retained for remo	ediation purposes.		2	

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Form C-141 State of New Mexico
Page 2 Oil Conservation Division

	Page 3 of 9
Incident ID	NAPP2205649749
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Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	A release that results in a fire or is the resu	lt of a fire.
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	Lotice given to the OCD? By whom? To when	om? When and by what means (phone, email, etc)?
	•	t Hamlet on Friday, February 11, 2022 4:57 PM via email.
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , , , , , , , , , , , , , , , , ,
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
* The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment
I	-	ikes, absorbent pads, or other containment devices.
		-
	ecoverable materials have been removed an	~ · · · · · · · · · · · · · · · · · · ·
	d above have <u>not</u> been undertaken, explain	vhy:
NA		
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
		pest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
public health or the environ	ment. The acceptance of a C-141 report by the C	CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Adrian Ba	aker	Title: SSHE Coordinator
Timed Name.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Signature:	10 h Jan	Date: 2/25/22
email: adrian.baker@exx	conmobil.com	Telephone: 432-236-3808
	-	- 555
OCD Only		
,	Marcus	3/1/2022
Received by: Ramona	TYTATCUS	Date: 3/1/2022

Location:	Big Eddy Unit DI 4 Tank Battery		
Spill Date:	2/11/2022		
	Area 1		
Approximate A	rea =	2164.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	Average Porosity Factor = 0.03		
VOLUME OF LEAK			
Total Crude Oil	=	0.48	bbls
Total Produced Water = 0.00 bbls		bbls	
TOTAL VOLUME OF LEAK			
Total Crude Oil	Total Crude Oil = 0.48 bbls		bbls
Total Produced	Total Produced Water = 0.00 bbls		bbls
TOTAL VOLUME RECOVERED			
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	0.00	bbls

	Page 5 of	96
Incident ID	NAPP2205649749	
District RP		
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Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 20 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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.		

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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Incident ID	NAPP2205649749
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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: advison Baks	Date:05/12/2022	
email:Adrian.Baker@exxonmobil.com_	Telephone:432-236-3808	
OCD Only		
Received by:	Date:	

State of New Mexico

Legidert ID NA PRO205640740

Incident ID	NAPP2205649749
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the Oriented Name: Adrian Baker	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title:Environmental Coordinator
Signature:Oddion Base	Date:05/12/2022
email:Adrian.Baker@exxonmobil.com	Telephone:432-236-3808
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



May 12, 2022

District II New Mexico Oil Conservation Division 811 S. First Street Artesia. New Mexico 88210

Re: Closure Request

Big Eddy Unit DI 4

Incident Numbers NAPP2203453168 and NAPP2205649749

Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment and soil sampling activities performed at the Big Eddy Unit DI 4 (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a small crude oil flare fire at the Site. Based on the site assessment activities and analytical results from the soil sampling event, XTO is submitting this Closure Request, requesting closure for Incident Numbers NAPP2203453168 and NAPP2205649749.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 05, Township 20 South, Range 31 East, in Eddy County, New Mexico (32.60772° N, 103.89009°W) and is associated with oil and gas exploration and production operations on Federal Land leased by the Bureau of Land Management.

Incident Number NAPP2203453168

On January 21, 2022, freezing weather caused equipment to malfunction, sending approximately 0.36 barrels (bbls) of crude oil out of the flare, which ignited and extinguished on the ground. There were no fluids to recover. XTO reported the release via email to the New Mexico Oil Conservation Division (NMOCD) on January 21, 2022 and submitted a Release Notification Form C-141 (Form C-141) on February 3, 2022. The release was assigned Incident Number NAPP2203453168.

Incident Number NAPP2205649749

On February 11, 2022, following the initial release, the high-pressure flare line released approximately 0.48 bbls of crude oil out of the flare, which ignited and extinguished on the ground. There were no fluids to recover. XTO reported the release via email to the NMOCD on February 11, 2022 and submitted a Form C-141 on February 25, 2022. The release was assigned Incident Number NAPP2205649749.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 00722, located approximately 1.1 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 140 feet bgs and a total depth of 220 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,012 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND DELINEATION ACTIVITIES

On March 24, 2022, site assessment activities were conducted to evaluate the release extents based on information provided on the Form C-141 and visual observations. The release extents from both flare fires overlapped and were evaluated concurrently. Eight preliminary soil samples (SS01 through SS08) were collected within and around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results indicated no impacts to soil; however, surficial soil stained by the fire was scraped and removed from the Site.

Following the scrape, delineation potholes PH01 through PH04 were advanced within the release extent at the locations of preliminary soil samples SS05 through SS08, respectively. The potholes were advanced using a track-mounted backhoe to a depth of 2 feet bgs. Discrete soil samples were collected from each pothole and field screened for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the potholes were logged on soil and lithologic sampling logs which are included in Appendix B. The release extent and preliminary and delineation soil sample locations were mapped utilizing a handheld Global Positioning System



(GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site assessment and a photographic log is included in Appendix C.

The preliminary soil samples and delineation soil samples collected at 1-foot bgs were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico. for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 through SS08 and delineation soil samples PH01A through PH04A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the January 21, 2022, and February 11, 2022, crude oil flare fires. Laboratory analytical results for the soil samples, collected within and around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. XTO removed the surficial soil stained by the fires at the Site and based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO respectfully requests closure for Incident Numbers NAPP2203453168 and NAPP2205649749.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Aimee Cole

Senior Managing Scientist

Sincerely, Ensolum, LLC

Kelly Lowery, GIT Staff Geologist

Adrian Baker, XTO CC:

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 **Delineation Soil Sample Locations** Table 1 Soil Sample Analytical Results



Appendix A Referenced Well Records
Appendix B Lithologic Soil Sampling Logs

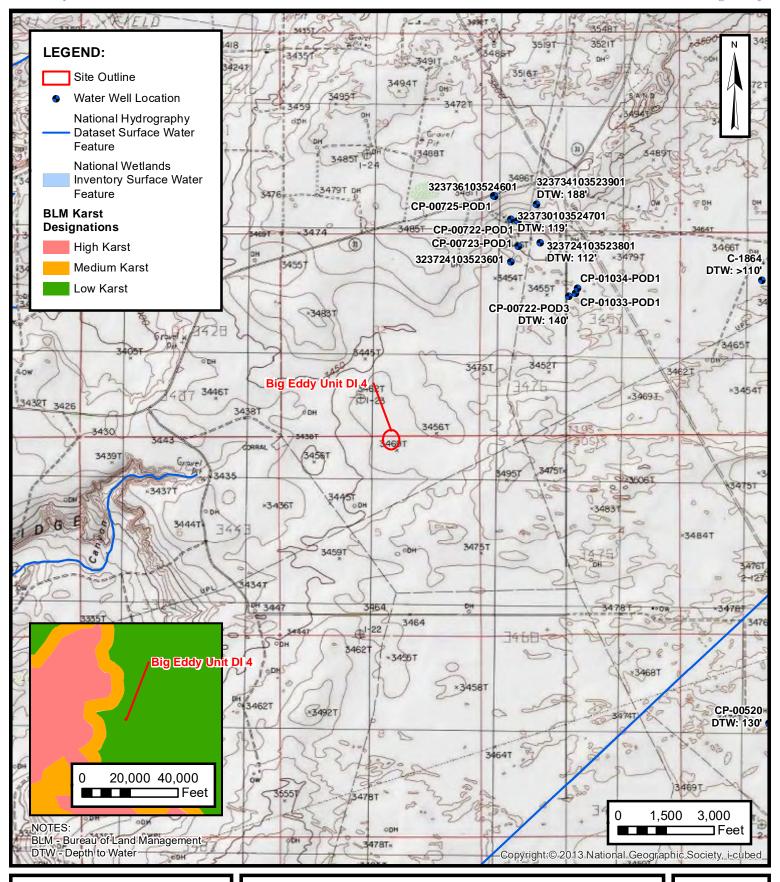
Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications



FIGURES



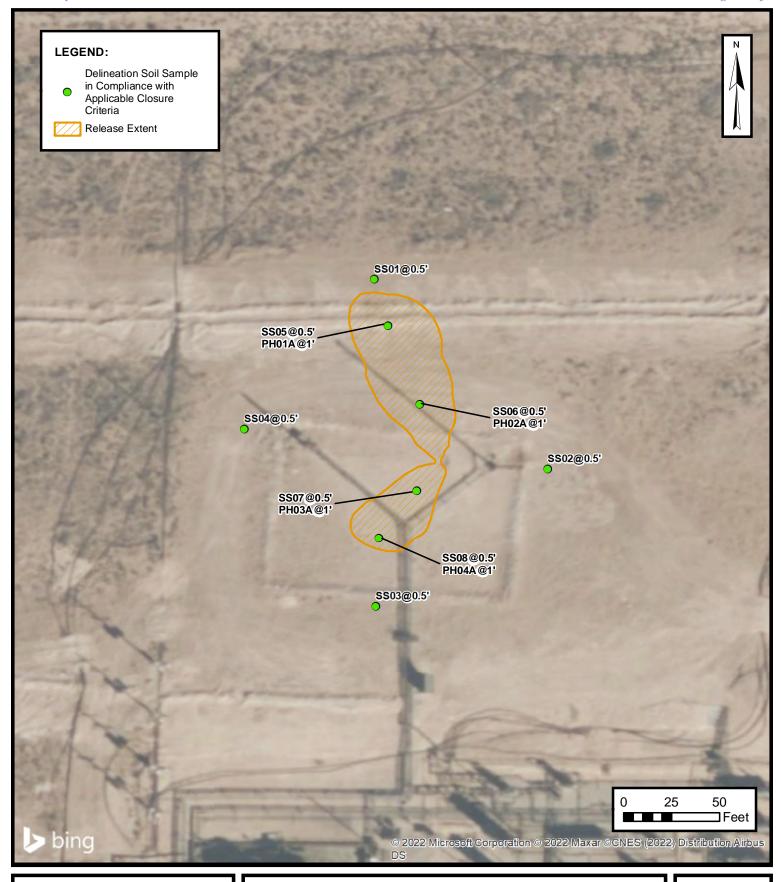


SITE RECEPTOR MAP

XTO ENERGY, INC BIG EDDY UNIT DI 4 PP2203453168 & NAPP2205649

NAPP2203453168 & NAPP2205649749 Unit B, Section 05, Township 20S, Range 31E Eddy County, New Mexico FIGURE -

1





DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC BIG EDDY UNIT DI 4 NAPP2203453168 & NAPP2205649749 Unit B, Section 05, Township 20S, Range 31E Eddy County, New Mexico **FIGURE**

2



TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Big Eddy Unit DI 4 XTO Energy, Inc. **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Pre	liminary Soil San	nples				
SS01	03/24/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	<4.97
SS02	03/24/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	8.51
SS03	03/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.1
SS04	03/24/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<5.01
SS05	03/24/2022	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	22.1
SS06	03/24/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	5.49
SS07	03/24/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	94.0	94.0	94.0	18.9
SS08	03/24/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	6.05
Delineation Soil Samples										
PH01A	03/24/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	38.5
PH02A	03/24/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	6.21
PH03A	03/24/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
PH04A	03/24/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	68.3

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws

Q64 Q16 Q4 Sec Tws Rng2 4 1 33 198 31E

 \mathbf{X} \mathbf{Y}

605519 3609673*

Driller Name: KEY, CASEY

CP 00722 POD3

Drill Start Date: 05/02/2011 **Drill Finish Date:** 05/04/2011 **Plug Date:**

Log File Date:05/17/2011PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:100 GPMCasing Size:5.00Depth Well:220 feetDepth Water:140 feet

Water Bearing Stratifications: Top Bottom Description

140 150 Sandstone/Gravel/Conglomerate
 170 220 Sandstone/Gravel/Conglomerate

Meter Number:19084Meter Make:SEAMETRICSMeter Serial Number:101903750408Meter Multiplier:1000.0000Number of Dials:8Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year M	tr Reading	Flag	Rdr Comment	Mtr Amount Online
07/01/2020	2020	0	A	RPT	0
10/12/2020	2020	409	A	RPT	1.256
12/31/2020	2020	724	A	RPT	0.966
**YTD Met	er Amounts:	Year	1	Amount	
		2020		2.222	

^{*}UTM location was derived from PLSS - see Help

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

5/5/22 9:20 PM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

323725103523702

∨ | GO |

Minimum number of levels = 1

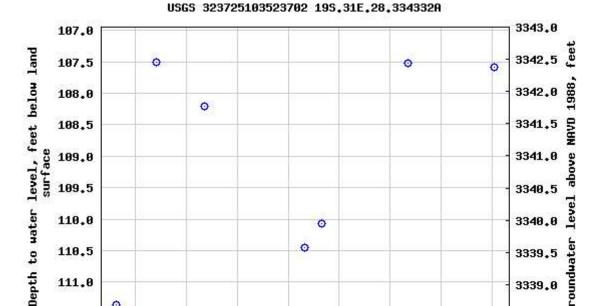
Save file of selected sites to local disk for future upload

Available data for this site Groundwater: Field measurements

USGS 323725103523702 19S.31E.28.334332A

Output formats

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



Period of approved data

1970

1973

1976

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

1979

1982

1985

3339.0

3338.5

1988

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

1967

Accessibility

111.0

111.5

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-05-05 23:30:51 EDT

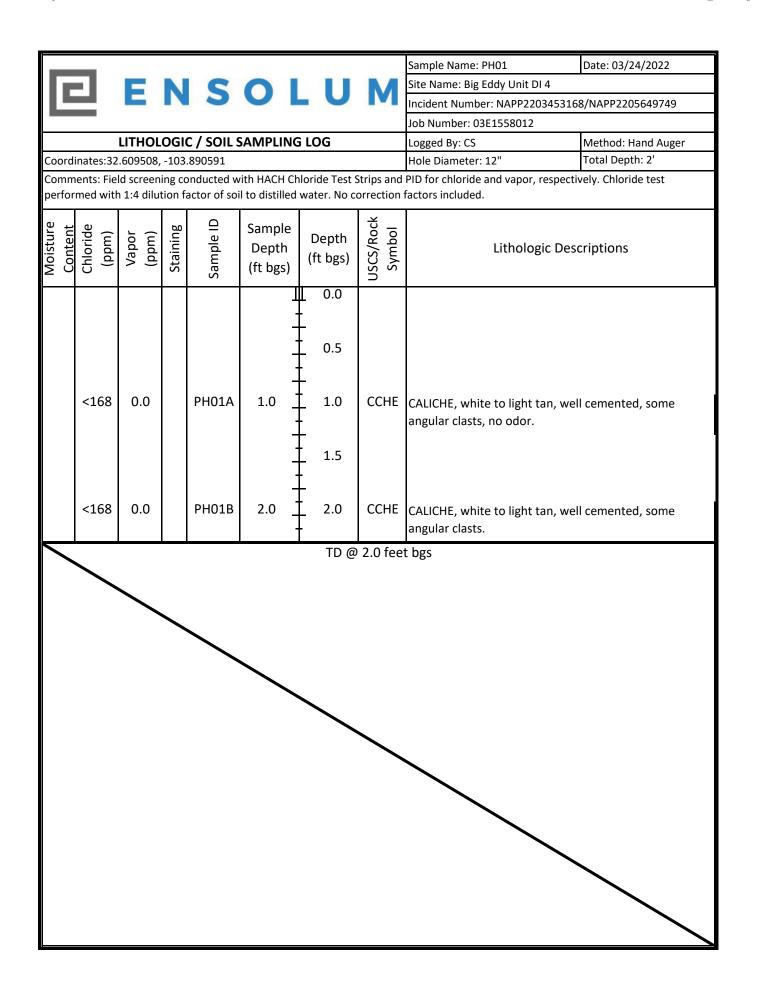
0.54 0.48 nadww01

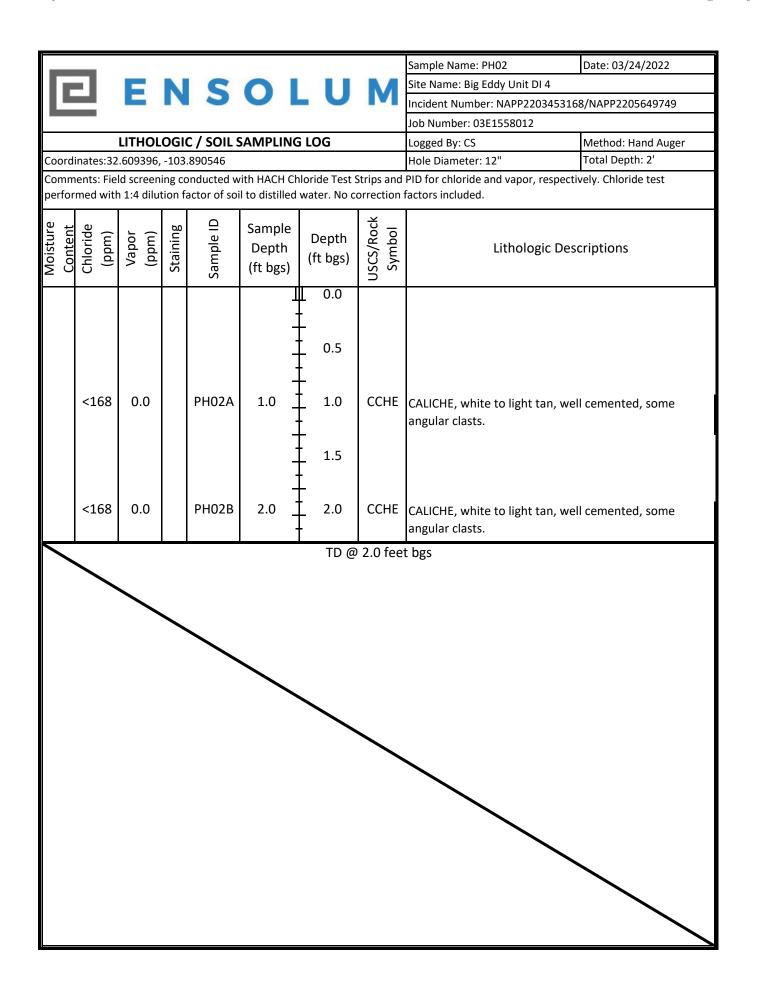


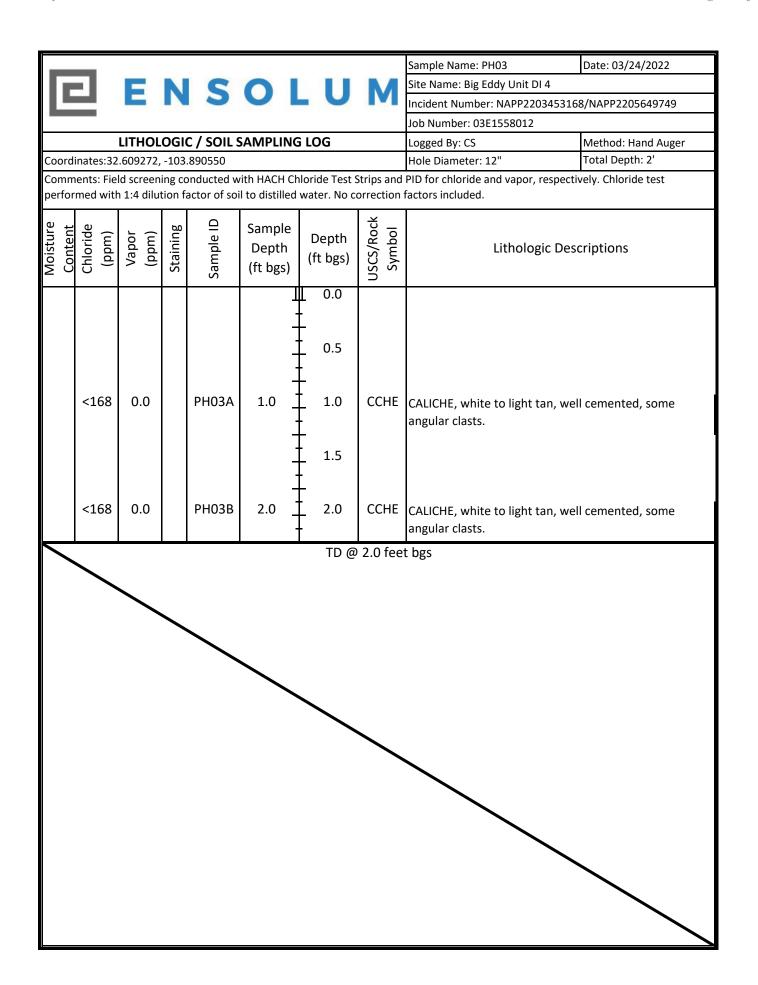


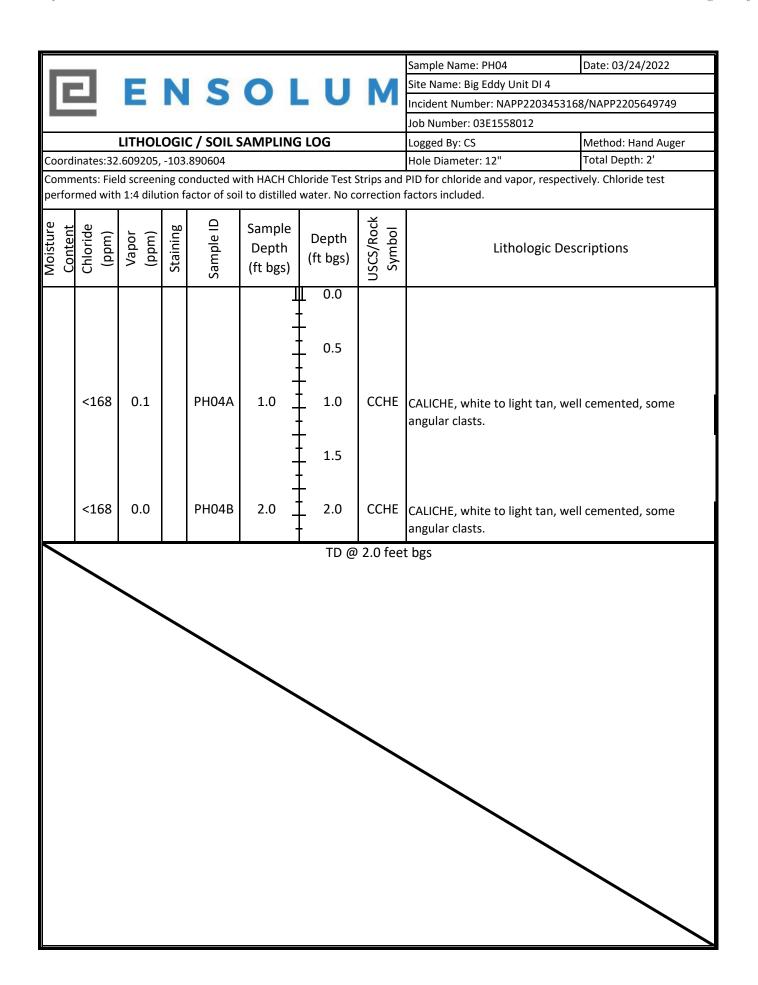
APPENDIX B

Lithologic Soil Sampling Logs











APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.
Big Eddy Unit DI 4
Incident Numbers NAPP2203453168 and
NAPP2205649749





Photograph 1 Date: 03/24 Description: View of release extent facing north.

Date: 03/24/2022 Photograph 2 Date: 03/24/2022
Description: View of release extent and staining from the flare fire.





Photograph 3 Date: 03/24/2022 Photograph 4 Description: View of release extent following removal of surficial staining. Date: 03/24/2022 Photograph 4 Description: View of surficial staining.

Photograph 4 Date: 03/24/2022 Description: View of release extent following removal of surficial staining.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2138-1

Laboratory Sample Delivery Group: 31403236.029 TASK 12.02

Client Project/Site: BEU DI 4

For:

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 4/8/2022 10:08:18 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project

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Released to Imaging: 6/21/2022 2:18:36 PM

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

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

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 Client: WSP USA Inc.
 Laboratory Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

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QC Association Summary	14
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Certification Summary	18
Method Summary	19
Sample Summary	20
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** *1

LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. 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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Job ID: 890-2138-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2138-1

Comments

No additional comments.

Receipt

The samples were received on 3/24/2022 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22440 and analytical batch 880-22425 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: The continuing calibration verification (CCV) associated with batch 880-22425 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-22425/51).

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

GC Semi VOA

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-22469 and analytical batch 880-22434 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS01 Lab Sample ID: 890-2138-1

Date Collected: 03/24/22 14:50 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/28/22 08:36	03/29/22 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/28/22 08:36	03/29/22 15:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130			03/28/22 08:36	03/29/22 15:38	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			03/29/22 16:50	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/29/22 10:55	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		03/28/22 10:57	03/28/22 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		03/28/22 10:57	03/28/22 19:03	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/28/22 10:57	03/28/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			03/28/22 10:57	03/28/22 19:03	1
o-Terphenyl	128		70 - 130			03/28/22 10:57	03/28/22 19:03	1
-								
Method: 300.0 - Anions, Ion Chro		Qualifier	RL 4.97	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS02

Date Collected: 03/24/22 14:55

Lab Sample ID: 890-2138-2

Matrix: Solid

Date Collected: 03/24/22 14:55 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/28/22 08:36	03/29/22 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/28/22 08:36	03/29/22 15:58	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2138-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2138-1

Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS02 Date Collected: 03/24/22 14:55 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	03/28/22 08:36	03/29/22 15:58	1

Mathad:	Total	RTFY -	Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/29/22 16:50	1

Method: 8015 NM - Diesel	Range Organics	(DRO) ((GC)
michica, colo mi biccci	Tungo Organios	(5.10)	

moundar de la line Biodor italiga a	rgamos (Sito) (So)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/29/22 10:55	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 19:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/22 10:57	03/28/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIIIS	rrepared	u Allalyzeu	DII Fac
1-Chlorooctane	117	70 - 130	03/28/22 10	03/28/22 19:24	1
o-Terphenyl	134 S1+	70 - 130	03/28/22 10	0:57 03/28/22 19:24	1
_					

Method: 300.0 - Anions, lor	n Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.51	5.00	mg/Kg			04/07/22 17:48	1

Client Sample ID: SS03 Lab Sample ID: 890-2138-3

Date Collected: 03/24/22 15:00 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/28/22 08:36	03/29/22 16:19	1
1.4-Difluorobenzene (Surr)	91		70 - 130			03/28/22 08:36	03/29/22 16:19	1

1,4-Difluorobenzene (Surr)	91	70 - 130	03/28/22 08:36	03/29/22 16:19
_				

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/29/22 16:50	1

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

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	mg/Kg			03/29/22 10:55	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2138-3

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS03

Date Collected: 03/24/22 15:00 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 19:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/28/22 10:57	03/28/22 19:45	1
o-Terphenyl	115		70 - 130			03/28/22 10:57	03/28/22 19:45	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-2138-4 Date Collected: 03/24/22 15:05 Matrix: Solid

Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/28/22 08:36	03/29/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/28/22 08:36	03/29/22 16:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130			03/28/22 08:36	03/29/22 16:39	1
Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/29/22 16:50	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/29/22 10:55	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 20:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 20:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			03/28/22 10:57	03/28/22 20:06	1
o-Terphenyl	108		70 - 130			03/28/22 10:57	03/28/22 20:06	1

Eurofins Carlsbad

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Lab Sample ID: 890-2138-4

Date Collected: 03/24/22 15:05 Date Received: 03/24/22 16:43

Client Sample ID: SS04

Matrix: Solid

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.01	U	5.01	mg/Kg			04/07/22 17:59	1		

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2138-1	SS01	111	104	
390-2138-2	SS02	111	103	
890-2138-3	SS03	103	91	
890-2138-4	SS04	106	98	
890-2139-A-1-A MS	Matrix Spike	96	105	
890-2139-A-1-B MSD	Matrix Spike Duplicate	78	102	
LCS 880-22440/1-A	Lab Control Sample	105	104	
LCSD 880-22440/2-A	Lab Control Sample Dup	118	100	
MB 880-22418/5-A	Method Blank	98	101	
MB 880-22440/5-A	Method Blank	98	98	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2138-1	SS01	112	128	
890-2138-2	SS02	117	134 S1+	
890-2138-3	SS03	104	115	
890-2138-4	SS04	97	108	
890-2139-A-1-E MS	Matrix Spike	120	134 S1+	
890-2139-A-1-F MSD	Matrix Spike Duplicate	108	116	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22469/2-A	Lab Control Sample	109	120	
LCSD 880-22469/3-A	Lab Control Sample Dup	94	104	
MB 880-22469/1-A	Method Blank	103	116	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22418/5-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22418

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1 4-Difluorobenzene (Surr)	101	70 130

Prepared Dil Fac Analyzed 03/28/22 09:00 03/28/22 18:08 03/28/22 09:00 03/28/22 18:08

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22440

Analysis Batch: 22425 MB MB

Lab Sample ID: MB 880-22440/5-A

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 05:43	1

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	0.	3/28/22 08:36	03/29/22 05:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	0.	3/28/22 08:36	03/29/22 05:43	1

Lab Sample ID: LCS 880-22440/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22440

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1072		mg/Kg		107	70 - 130	
0.100	0.1006		mg/Kg		101	70 - 130	
0.100	0.1029		mg/Kg		103	70 - 130	
0.200	0.2474		mg/Kg		124	70 - 130	
0.100	0.1219		mg/Kg		122	70 - 130	
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1072 0.100 0.1006 0.100 0.1029 0.200 0.2474	Added Result Qualifier 0.100 0.1072 0.100 0.1006 0.100 0.1029 0.200 0.2474	Added Result Qualifier Unit 0.100 0.1072 mg/Kg 0.100 0.1006 mg/Kg 0.100 0.1029 mg/Kg 0.200 0.2474 mg/Kg	Added Result Qualifier Unit D 0.100 0.1072 mg/Kg 0.100 0.1006 mg/Kg 0.100 0.1029 mg/Kg 0.200 0.2474 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1072 mg/Kg 107 0.100 0.1006 mg/Kg 101 0.100 0.1029 mg/Kg 103 0.200 0.2474 mg/Kg 124	Added Result Qualifier Unit D %Rec Limits 0.100 0.1072 mg/Kg 107 70 - 130 0.100 0.1006 mg/Kg 101 70 - 130 0.100 0.1029 mg/Kg 103 70 - 130 0.200 0.2474 mg/Kg 124 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-22440/2-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Lab	Control Sample Dup
	Dunn Times Tetal/NIA

Prep Type: Total/NA

Prep Batch: 22440

	Spike	LCSD LCSD				70 KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08758	mg/Kg		88	70 - 130	20	35

LCCD LCCD

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Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Lab Sample ID: LCSD 880-22440/2-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22440

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09000 90 70 - 130 35 mg/Kg 11 Ethylbenzene 0.100 0.09433 mg/Kg 94 70 - 130 9 35 0.200 0.2330 m-Xylene & p-Xylene mg/Kg 117 70 - 130 6 35 o-Xylene 0.100 0.1183 mg/Kg 118 70 - 130 3 35

LCSD LCSD

Surrogate	%Recovery Qualifi	ier Limits
4-Bromofluorobenzene (Surr)	118	70 _ 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2139-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22425

Prep Type: Total/NA

Prep Batch: 22440

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene U F1 0.100 0.01667 F1 70 - 130 <0.00198 mg/Kg 17 Toluene <0.00198 UF1 0.100 0.01424 F1 70 - 130 mg/Kg 14 Ethylbenzene 0.100 0.009383 F1 70 - 130 <0.00198 U F2 F1 mg/Kg 0.200 m-Xylene & p-Xylene <0.00397 UF1 0.02545 F1 13 70 - 130 mg/Kg o-Xylene <0.00198 UF1 0.100 0.01679 F1 mg/Kg 17 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-2139-A-1-B MSD

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22440

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0996	0.01395	F1	mg/Kg		14	70 - 130	18	35
Toluene	<0.00198	U F1	0.0996	0.01110	F1	mg/Kg		11	70 - 130	25	35
Ethylbenzene	<0.00198	U F2 F1	0.0996	0.006320	F2 F1	mg/Kg		6	70 - 130	39	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.01959	F1	mg/Kg		10	70 - 130	26	35
o-Xylene	<0.00198	U F1	0.0996	0.01230	F1	mg/Kg		12	70 - 130	31	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-22469/1-A

Matrix: Solid

Analysis Batch: 22434

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

Prep Batch: 22469

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 03/28/22 10:57 03/28/22 11:23 Gasoline Range Organics

(GRO)-C6-C10

QC Sample Results

Job ID: 890-2138-1 Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Lab Sample ID: MB 880-22469/1-A **Matrix: Solid**

Analysis Batch: 22434

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

Prep Batch: 22469

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 03/28/22 10:57 03/28/22 11:23 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) 50.0 03/28/22 10:57 03/28/22 11:23 <50.0 U mg/Kg

MB MB

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	103		70 - 130	03/28/22 10:57	03/28/22 11:23	1
Į	o-Terphenyl	116		70 - 130	03/28/22 10:57	03/28/22 11:23	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-22469/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 22434 Prep Batch: 22469

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	950.2		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	975.9		mg/Kg		98	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenvl	120	70 - 130

Lab Sample ID: LCSD 880-22469/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 22434

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	749.9	*1	mg/Kg		75	70 - 130	24	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	794.2	*1	mg/Kg		79	70 - 130	21	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: 890-2139-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 22434							p Batch: 22469			
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U *1	998	995.7		mg/Kg		98	70 - 130	

844.0

mg/Kg

998

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	120		70 - 130			
o-Terphenvl	134	S1+	70 - 130			

<49.8 U *1

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70 - 130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 22469

Job ID: 890-2138-1

Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Lab Sample ID: 890-2139-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 22434

Prep Type: Total/NA Prep Batch: 22469

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.8 U*1 997 887.0 mg/Kg 87 70 - 130 12 20 (GRO)-C6-C10 997 Diesel Range Organics (Over <49.8 U*1 742.4 mg/Kg 70 70 - 13013

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	116		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22993/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23129

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 04/07/22 13:12

Lab Sample ID: LCS 880-22993/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23129

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	253.6		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-22993/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	254.1		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2135-A-1-I MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23129

	Sample	Sample	Spike	IVIS	M2				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	59.6		248	300.1		mg/Kg		97	90 - 110	

Lab Sample ID: 890-2135-A-1-J MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23129

Analysis Daton. 20125											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	59.6		248	310.6		mg/Kg		101	90 - 110	3	20

Prep Type: Soluble

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

GC VOA

Prep Batch: 22418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22418/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Total/NA	Solid	8021B	22440
890-2138-2	SS02	Total/NA	Solid	8021B	22440
890-2138-3	SS03	Total/NA	Solid	8021B	22440
890-2138-4	SS04	Total/NA	Solid	8021B	22440
MB 880-22418/5-A	Method Blank	Total/NA	Solid	8021B	22418
MB 880-22440/5-A	Method Blank	Total/NA	Solid	8021B	22440
LCS 880-22440/1-A	Lab Control Sample	Total/NA	Solid	8021B	22440
LCSD 880-22440/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22440
890-2139-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	22440
890-2139-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22440

Prep Batch: 22440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Total/NA	Solid	5035	_
890-2138-2	SS02	Total/NA	Solid	5035	
890-2138-3	SS03	Total/NA	Solid	5035	
890-2138-4	SS04	Total/NA	Solid	5035	
MB 880-22440/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22440/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22440/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2139-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2139-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
890-2138-1	SS01	Total/NA	Solid	Total BTEX	
890-2138-2	SS02	Total/NA	Solid	Total BTEX	
890-2138-3	SS03	Total/NA	Solid	Total BTEX	
890-2138-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Total/NA	Solid	8015B NM	22469
890-2138-2	SS02	Total/NA	Solid	8015B NM	22469
890-2138-3	SS03	Total/NA	Solid	8015B NM	22469
890-2138-4	SS04	Total/NA	Solid	8015B NM	22469
MB 880-22469/1-A	Method Blank	Total/NA	Solid	8015B NM	22469
LCS 880-22469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22469
LCSD 880-22469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22469
890-2139-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	22469
890-2139-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22469

Prep Batch: 22469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Total/NA	Solid	8015NM Prep	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

GC Semi VOA (Continued)

Prep Batch: 22469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-2	SS02	Total/NA	Solid	8015NM Prep	
890-2138-3	SS03	Total/NA	Solid	8015NM Prep	
890-2138-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-22469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2139-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2139-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Total/NA Total/NA	Solid	8015 NM	
890-2138-2 890-2138-3	SS02 SS03	Total/NA	Solid Solid	8015 NM 8015 NM	
890-2138-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Soluble	Solid	DI Leach	
890-2138-2	SS02	Soluble	Solid	DI Leach	
890-2138-3	SS03	Soluble	Solid	DI Leach	
890-2138-4	SS04	Soluble	Solid	DI Leach	
MB 880-22993/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2138-1	SS01	Soluble	Solid	300.0	22993
890-2138-2	SS02	Soluble	Solid	300.0	22993
890-2138-3	SS03	Soluble	Solid	300.0	22993
890-2138-4	SS04	Soluble	Solid	300.0	22993
MB 880-22993/1-A	Method Blank	Soluble	Solid	300.0	22993
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	300.0	22993
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22993
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	22993
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22993

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Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS01 Lab Sample ID: 890-2138-1

Date Collected: 03/24/22 14:50 Matrix: Solid
Date Received: 03/24/22 16:43

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst 5035 Total/NA Prep 22440 03/28/22 08:36 KL XEN MID 8021B Total/NA Analysis 1 22425 03/29/22 15:38 KLXEN MID Total/NA Analysis Total BTEX 22590 03/29/22 16:50 AJ XEN MID Total/NA 8015 NM XEN MID Analysis 1 22543 03/29/22 10:55 AJ Total/NA 8015NM Prep 22469 03/28/22 10:57 XEN MID Prep AM Total/NA Analysis 8015B NM 22434 03/28/22 19:03 XEN MID Soluble DI Leach 22993 04/05/22 09:10 XEN MID Leach CH Soluble Analysis 300.0 1 23129 04/07/22 17:42 СН XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-2138-2

Date Collected: 03/24/22 14:55 Matrix: Solid

Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 15:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22590	03/29/22 16:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22543	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 19:24	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 17:48	CH	XEN MID

Client Sample ID: SS03

Date Collected: 03/24/22 15:00

Lab Sample ID: 890-2138-3

Matrix: Solid

Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	 -		22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 16:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22590	03/29/22 16:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22543	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 19:45	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 17:53	CH	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-2138-4

Date Collected: 03/24/22 15:05 Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 16:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22590	03/29/22 16:50	AJ	XEN MID

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Matrix: Solid

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-2138-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS04

Lab Sample ID: 890-2138-4

Matrix: Solid

Date Collected: 03/24/22 15:05 Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	22543	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 20:06	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 17:59	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2138-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Laboratory: Eurofins Midland

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

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

Method Summary

Job ID: 890-2138-1 Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: BEU DI 4 Job ID: 890-2138-1

SDG: 31403236.029 TASK 12.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2138-1	SS01	Solid	03/24/22 14:50	03/24/22 16:43	0.5
890-2138-2	SS02	Solid	03/24/22 14:55	03/24/22 16:43	0.5
890-2138-3	SS03	Solid	03/24/22 15:00	03/24/22 16:43	0.5
890-2138-4	SS04	Solid	03/24/22 15:05	03/24/22 16:43	0.5

e: WSP USA Inc. 3300 North A Street	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) Adrian Baker Company Name: XTO Energy Progra	Dallas,T)) EL Pase (480-355-	las,TX (214) 90 Paso,TX (915) -355-0900) Atl Adrian Baker	02-0300 S 5)585-3443 tlanta,GA (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 (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (81:		www.xenco.com ^{>} age1	of 1
e: WSP USA Inc. 3300 North A Street	Bill to: (if different) Company Name	(480-355- Adri	o900) A an Bake	tlanta,GA (770-449-8800) Tampa,f			of 1
e: e:	Bill to: (if different) Company Name		an Bake	¥				
e:	Company Name					·	Work Order Comments	
			XTO Energy			Program: UST/PST PRP	□RP □Brownfields □RC □L	_uperfund
	Address:		4 E Gre€	3104 E Green Street		State of Project:]]
Jily, State ZIP: Iviidiand, I X 79705	City, State ZIP:	Carl	sbad, N	Carlsbad, NM 88220		Reporting:Level II Level III	ST/UST RRP	evel IV
432.236.3849	Email: conner.shore@wsp.com; Tacoma.morissey@wsp.com	wsp.co	m; Tacı	oma.mor	issey@wsp.com	Deliverables: EDD	ADaPT Other:	
roject Name: BEU DI 4	Turn Around				ANALYSIS REQUEST	REQUEST	Work Order Notes	ler Notes
ar: 31403236.029 Task 12.02 Ro	tine						NAPP2205649749& NAPP 2203453168	NAPP 2203453168
P.O. Number: CC:1080851001 Rush:	ה						API: 30-15-43285	5-43285
Sampler's Name: Conner Shore Due	Due Date:					_		
SAMPLE RECEIPT Temp Blank: (Ye) No Wet Ice:	Yes No							
		uners)	0)				
Cooler Custody Seals: Yes No NIA Correction Factor:	7)=802	A 300	890-	890-2138 Chain of Custody	TAT starts the day recevied by the	y recevied by the
Sample Custody Seals: Yes No NA Total Containers:		-	EPA	le (EF			lab, if received by 4:30pm	d by 4:30pm
Sample Identification Matrix Sampled Sampled	Depth	Numb	втех (Chlorid			Sample Comments	omments
SS01 s 3/24/2022 1450	0.5'	×	×	×				
SS02 s 3/24/2022 1455	0.5'	× -,	×	×				
SS03 s 3/24/2022 1500	0.5'	×	×	×				
SS04 s 3/24/2022 1505	0.5	×	×	×				
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13 Circle Method(s) and Metal(s) to be analyzed TCLP / SF	RCRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA		As Ba As Ba	Be B Cd Be Cd Cr	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Fe Pb Mg Mn Mo Ni K Se Ag Mo Ni Se Ag Tl U	SiO2 Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	V Zn) / 7471 : Hg
olice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. If service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses at 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 a	rchase order from cli- sponsibility for any lo i for each sample sub	ent compa sses or ex mitted to X	ny to Xen (penses ir (enco, but	nco, its affilia ncurred by t t not analyza		. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated.		
Relinquished by: (Signature) Received by: (Signature)	ure)	Dat	Date/Time		13	(Signature) Received by: (Signature)		Date/Time
C) (M)		3-24-22	છે	1648	\$			

Eurofins Carlsbad

Carlsbad, NM 88220

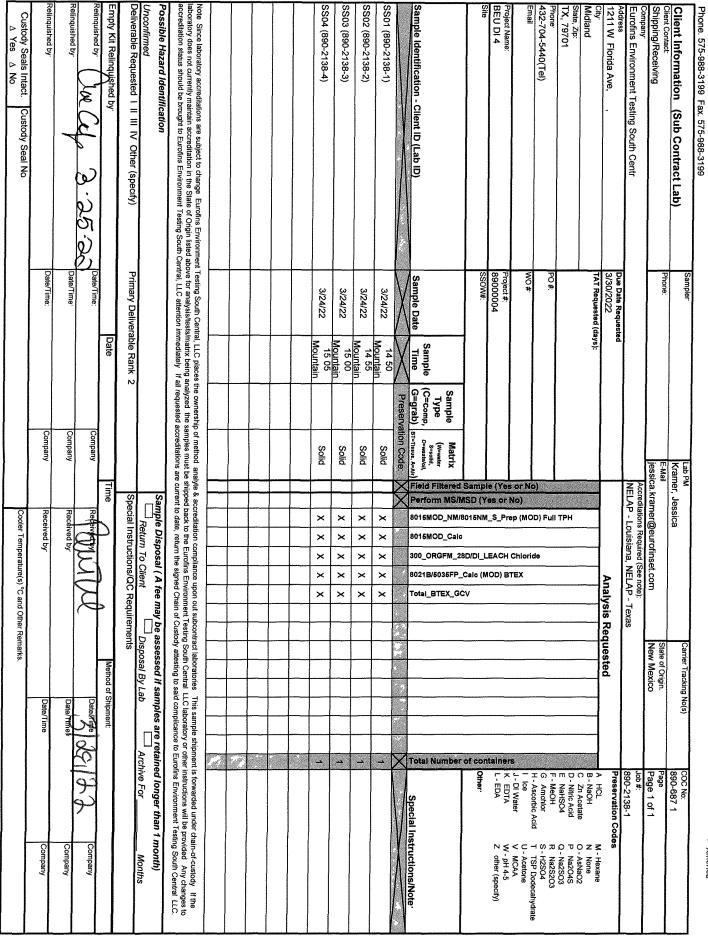
1089 N Canal St.

13 14

Chain of Custody Record

💸 eurofins

Environment Testing



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2138-1

SDG Number: 31403236.029 TASK 12.02

Login Number: 2138 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2138-1

SDG Number: 31403236.029 TASK 12.02

List Source: Eurofins Midland List Creation: 03/28/22 08:20 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 2138

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

Laboratory Job ID: 890-2139-1

Laboratory Sample Delivery Group: 31403236.029 TASK 12.02

Client Project/Site: BEU DI 4

Revision: 1

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 5/2/2022 2:34:08 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

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www.eurofinsus.com/Env

Released to Imaging: 6/21/2022 2:18:36 PM

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

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

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 Client: WSP USA Inc.
 Laboratory Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

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)

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

MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit

MI Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

MDL

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)

Too Numerous To Count **TNTC**

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Job ID: 890-2139-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2139-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 4/8/2022. The report (revision 1) is being revised to change sample IDs per Tacoma Morrissey (email)..

Receipt

The samples were received on 3/24/2022 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-22425 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22440 and analytical batch 880-22425 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-22469 and analytical batch 880-22434 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS05 Lab Sample ID: 890-2139-1 **Matrix: Solid**

Date Collected: 03/24/22 10:50 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
Toluene	<0.00198	U F1	0.00198	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
Ethylbenzene	<0.00198	U F2 F1	0.00198	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
m-Xylene & p-Xylene	< 0.00397	U F1	0.00397	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
o-Xylene	<0.00198	U F1	0.00198	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
Xylenes, Total	<0.00397	U F1	0.00397	mg/Kg		03/28/22 08:36	03/29/22 06:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/28/22 08:36	03/29/22 06:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130			03/28/22 08:36	03/29/22 06:12	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/29/22 14:02	1
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)					
Method: 8015 NM - Diesel Ra Analyte	_	s (DRO) (O Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	_	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/29/22 10:55	Dil Fac
Analyte Total TPH	Result	Qualifier U	RL 49.8		<u>D</u>	Prepared		
Analyte	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.8	Qualifier U ics (DRO) Qualifier	RL 49.8	mg/Kg	_ =	· ·	03/29/22 10:55	1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 ange Organ Result	Qualifier U ics (DRO) Qualifier U *1	RL 49.8 (GC)	mg/Kg	_ =	Prepared 03/28/22 10:57	03/29/22 10:55 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 cange Organ Result <49.8	Qualifier U ics (DRO) Qualifier U *1 U *1	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg	_ =	Prepared 03/28/22 10:57 03/28/22 10:57	03/29/22 10:55 Analyzed 03/28/22 12:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U ics (DRO) Qualifier U *1 U *1	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/28/22 10:57 03/28/22 10:57	03/29/22 10:55 Analyzed 03/28/22 12:25 03/28/22 12:25	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U *1 U *1	RL 49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 03/28/22 10:57 03/28/22 10:57	03/29/22 10:55 Analyzed 03/28/22 12:25 03/28/22 12:25 03/28/22 12:25	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U ics (DRO) Qualifier U *1 U *1	RL 49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 03/28/22 10:57 03/28/22 10:57 03/28/22 10:57 Prepared 03/28/22 10:57	03/29/22 10:55 Analyzed 03/28/22 12:25 03/28/22 12:25 03/28/22 12:25 Analyzed	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U ics (DRO) Qualifier U *1 U *1 U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	— = 	Prepared 03/28/22 10:57 03/28/22 10:57 03/28/22 10:57 Prepared 03/28/22 10:57	03/29/22 10:55 Analyzed 03/28/22 12:25 03/28/22 12:25 Analyzed 03/28/22 12:25	1 Dil Fac 1 Dil Fac 1

Lab Sample ID: 890-2139-2 **Client Sample ID: SS06** Date Collected: 03/24/22 10:55 Matrix: Solid

4.97

mg/Kg

22.1

Date Received: 03/24/22 16:43

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 06:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/28/22 08:36	03/29/22 06:33	1

Eurofins Carlsbad

04/07/22 18:05

Client: WSP USA Inc. Job ID: 890-2139-1

Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS06 Lab Sample ID: 890-2139-2 Date Collected: 03/24/22 10:55

Matrix: Solid Date Received: 03/24/22 16:43

Sample Depth: 0.5

Method: 8021B - Volatile O	rganic Compounds	(GC) (Continued)
----------------------------	------------------	------------------

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	10.3	70 - 130	03/28/22 08:36 03/29/22 06:33	3 1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			03/29/22 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		03/29/22 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 13:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 13:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/22 10:57	03/28/22 13:27	1
Surrogato	% Pocovory	Qualifier	Limite			Droporod	Analyzod	Dil Esc

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/28/22 10:57	03/28/22 13:27	1
o-Terphenyl	114		70 - 130	03/28/22 10:57	03/28/22 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.49	4.95	mg/Kg			04/07/22 18:11	1

Client Sample ID: SS07 Lab Sample ID: 890-2139-3 **Matrix: Solid**

Date Collected: 03/24/22 12:00 Date Received: 03/24/22 16:43

Sample Depth: 0.5

Mothod: 9021B	Volatile	Organic	Compounds	(CC)

wethod: 8021B - volatile U	wethod: 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Benzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
Toluene	< 0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 06:53	1				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	108		70 - 130			03/28/22 08:36	03/29/22 06:53	1				
1,4-Difluorobenzene (Surr)	104		70 - 130			03/28/22 08:36	03/29/22 06:53	1				

ı	_				
	1,4-Difluorobenzene (Surr)	104	70 - 130	03/28/22 08:36 03/29/22 06:53	1
	4-Bromonuorobenzene (Surr)	106	70 - 130	03/26/22 06.30 03/29/22 06.53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/29/22 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.0		49.8	mg/Kg	_		03/29/22 10:55	1

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS07 Lab Sample ID: 890-2139-3

Date Collected: 03/24/22 12:00 Matrix: Solid Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		03/28/22 10:57	03/28/22 13:48	1
Diesel Range Organics (Over C10-C28)	94.0	*1	49.8	mg/Kg		03/28/22 10:57	03/28/22 13:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/28/22 10:57	03/28/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/28/22 10:57	03/28/22 13:48	1
o-Terphenyl	113		70 - 130			03/28/22 10:57	03/28/22 13:48	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solι	ıble					
	_			11!4		Dunmanad	A a l a al	D:: F
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS08 Lab Sample ID: 890-2139-4 Date Collected: 03/24/22 12:05 **Matrix: Solid**

Date Received: 03/24/22 16:43

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
Ethylbenzene	< 0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
o-Xylene	< 0.00202	U	0.00202	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/28/22 08:36	03/29/22 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			03/28/22 08:36	03/29/22 07:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130			03/28/22 08:36	03/29/22 07:13	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			03/29/22 14:02	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/22 10:55	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 14:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/28/22 10:57	03/28/22 14:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/22 10:57	03/28/22 14:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			03/28/22 10:57	03/28/22 14:09	1

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5/2/2022 (Rev. 1)

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4

SDG: 31403236.029 TASK 12.02

Client Sample ID: SS08

Lab Sample ID: 890-2139-4

Date Collected: 03/24/22 12:05 Date Received: 03/24/22 16:43

Matrix: Solid

Sample Depth: 0.5

N	Method: 300.0 - Anions, Ion Chroma	atogra	phy - Solub	le					
A	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C	hloride	6.05		5.00	mg/Kg			04/02/22 20:16	1

Lab Sample ID: 890-2139-5 **Client Sample ID: PH01A**

Date Collected: 03/24/22 13:10 Matrix: Solid

Date Received: 03/24/22 16:43

Sample Depth: 1

Analyte

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 07:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			03/28/22 08:36	03/29/22 07:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130			03/28/22 08:36	03/29/22 07:34	1

Method: 8015 NM - Diesel Ran	ge Organics (DRO) ((GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/29/22 10:55	1
T							

0.00398

RL

Result Qualifier

<0.00398 U

Unit

mg/Kg

Prepared

Analyzed

03/29/22 14:02

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 14:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 14:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/28/22 10:57	03/28/22 14:30	1
o-Terphenyl	114		70 - 130			03/28/22 10:57	03/28/22 14:30	1

Method: 300.0 - Anions, Ion Chro	matogra	phy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.5		4.99	mg/k	(g		04/02/22 20:43	1

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Dil Fac

Job ID: 890-2139-1

Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH01B Lab Sample ID: 890-2139-6

Date Collected: 03/24/22 13:15 Matrix: Solid Date Received: 03/24/22 16:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 07:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/28/22 08:36	03/29/22 07:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/28/22 08:36	03/29/22 07:54	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/29/22 14:02	1
Method: 8015 NM - Diesel Rai	ngo Organic	s (DPO) (G	2C)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8	mg/Kg			03/29/22 10:55	1
				99				
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	<49.8	U *1	49.8	mg/Kg		03/28/22 10:57	03/28/22 14:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		03/28/22 10:57	03/28/22 14:51	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/28/22 10:57	03/28/22 14:51	1
On realige Organies (Over 020-030)								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits 70 - 130			Prepared 03/28/22 10:57		Dil Fac
Surrogate 1-Chlorooctane o-Terphenyl		Qualifier				03/28/22 10:57		
Surrogate 1-Chlorooctane	103 113		70 - 130 70 - 130			03/28/22 10:57	03/28/22 14:51	1
Surrogate 1-Chlorooctane o-Terphenyl	103 113 Chromatogra		70 - 130 70 - 130	Unit	D	03/28/22 10:57	03/28/22 14:51	•

Client Sample ID: PH02A Lab Sample ID: 890-2139-7 Date Collected: 03/24/22 13:25 **Matrix: Solid**

Date Received: 03/24/22 16:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 08:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/28/22 08:36	03/29/22 08:15	1

Job ID: 890-2139-1

Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH02A Lab Sample ID: 890-2139-7

Date Collected: 03/24/22 13:25 **Matrix: Solid** Date Received: 03/24/22 16:43

Sample Depth: 1

Surrogate		Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	03/28/22 08:36	03/29/22 08:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			03/29/22 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/29/22 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/28/22 10:57	03/28/22 15:12	1
o-Terphenyl	119		70 - 130	03/28/22 10:57	03/28/22 15:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.21	4.97	mg/Kg			04/02/22 21:01	1

Client Sample ID: PH02B Lab Sample ID: 890-2139-8 **Matrix: Solid**

Date Collected: 03/24/22 13:30 Date Received: 03/24/22 16:43

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/28/22 08:36	03/29/22 08:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			03/28/22 08:36	03/29/22 08:35	1
1,4-Difluorobenzene (Surr)	99		70 - 130			03/28/22 08:36	03/29/22 08:35	1

lothod:	Total	DTEV	Total	DTEV	Calculation	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			03/29/22 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg	_		03/29/22 10:55	1

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH02B

Lab Sample ID: 890-2139-8 Date Collected: 03/24/22 13:30 **Matrix: Solid** Date Received: 03/24/22 16:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/28/22 10:57	03/28/22 15:33	1
o-Terphenyl	113		70 - 130			03/28/22 10:57	03/28/22 15:33	1

Analyte Result Qualifier RL Unit Analyzed Dil Fac Prepared Chloride 5.04 04/02/22 21:10 13.3 mg/Kg

Client Sample ID: PH03A Lab Sample ID: 890-2139-9 Date Collected: 03/24/22 13:45 **Matrix: Solid**

Date Received: 03/24/22 16:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 08:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/28/22 08:36	03/29/22 08:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130			03/28/22 08:36	03/29/22 08:55	1
Total BTEX Method: 8015 NM - Diesel Rar	<0.00399		0.00399 3C)	mg/Kg			03/29/22 14:02	1
Analyte	-	S (DRO) (C Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg			03/29/22 10:55	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

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03/28/22 10:57 03/28/22 15:54

70 - 130

116

o-Terphenyl

Client: WSP USA Inc. Job ID: 890-2139-1 SDG: 31403236.029 TASK 12.02

Project/Site: BEU DI 4

Client Sample ID: PH03A Lab Sample ID: 890-2139-9 Date Collected: 03/24/22 13:45 Matrix: Solid

Date Received: 03/24/22 16:43 Sample Depth: 1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/02/22 21:36	1

Client Sample ID: PH03B Lab Sample ID: 890-2139-10

Date Collected: 03/24/22 13:50 Date Received: 03/24/22 16:43

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/28/22 08:36	03/29/22 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/28/22 08:36	03/29/22 09:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/28/22 08:36	03/29/22 09:16	1

Method. Total DTEX - Total DTE	A Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/29/22 14:02	1

Method: 8015 NW - Diesei Ran	ige Organics (DRO) (GC	•)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0 U	50.0	mg/Kg			03/29/22 10:55	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 *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/28/22 10:57	03/28/22 16:15	1
o-Terphenyl	116		70 - 130			03/28/22 10:57	03/28/22 16:15	1

Method: 300.0 - Anions, Ion Ch	hromatogra	phy - Solu	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			04/02/22 21:45	1

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH04A Lab Sample ID: 890-2139-11

Date Collected: 03/24/22 13:55 **Matrix: Solid** Date Received: 03/24/22 16:43

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/28/22 08:36	03/29/22 13:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/28/22 08:36	03/29/22 13:35	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/28/22 08:36	03/29/22 13:35	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/29/22 14:02	1
Method: 8015 NM - Diesel Rai Analyte		s (DRO) (O	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	mg/Kg		Trepared	03/29/22 10:55	1
-				99				_
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 *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 16:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/28/22 10:57	03/28/22 16:57	1
o-Terphenyl	115		70 - 130			03/28/22 10:57	03/28/22 16:57	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					

Client Sample ID: PH04B Lab Sample ID: 890-2139-12 Date Collected: 03/24/22 14:00 Matrix: Solid

4.99

mg/Kg

68.3

Date Received: 03/24/22 16:43

Sample Depth: 2

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/28/22 08:36	03/29/22 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/28/22 08:36	03/29/22 13:56	1

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04/02/22 21:54

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH04B

Date Received: 03/24/22 16:43

Lab Sample ID: 890-2139-12 Date Collected: 03/24/22 14:00

Matrix: Solid

Sample Depth: 2

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130			03/28/22 08:36	03/29/22 13:56	1
Mathadi Tatal BTEV Tatal B	TEV Coloule	·!						
Method: Total BTEX - Total B		uon Qualifier	RL	11:4	_	Duamanad	Analysed	Dil Fac
Analyte				Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/29/22 14:02	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
F (LTDLL	-50.0	11					03/29/22 10:55	
	<50.0		50.0	mg/Kg			00/20/22 10:00	·
Total TPH Method: 8015B NM - Diesel R Analyte	ange Organi			mg/kg Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	ange Organi	ics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 03/28/22 10:57		Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	ange Organi Result	ics (DRO) Qualifier U *1	(GC)	Unit	<u>D</u>	03/28/22 10:57	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	ange Organ Result <50.0	Qualifier U *1	(GC) RL 50.0	Unit mg/Kg	<u> </u>	03/28/22 10:57	Analyzed 03/28/22 17:18 03/28/22 17:18	Dil Fac 1 1
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ange Organ Result <50.0	Qualifier U*1 U*1	(GC) RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	03/28/22 10:57	Analyzed 03/28/22 17:18 03/28/22 17:18	Dil Fac 1 1 Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)	**************************************	Qualifier U*1 U*1	(GC) RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	03/28/22 10:57 03/28/22 10:57 03/28/22 10:57	Analyzed 03/28/22 17:18 03/28/22 17:18 03/28/22 17:18	1 1

RL

5.00

Unit

mg/Kg

Prepared

Analyzed

04/04/22 11:19

Result Qualifier

55.3

Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-2139-1 SDG: 31403236.029 TASK 12.02 Project/Site: BEU DI 4

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2139-1	SS05	105	94	
890-2139-1 MS	SS05	96	105	
890-2139-1 MSD	SS05	78	102	
890-2139-2	SS06	109	103	
890-2139-3	SS07	108	104	
890-2139-4	SS08	110	88	
890-2139-5	PH01A	119	94	
890-2139-6	PH01B	106	95	
890-2139-7	PH02A	119	97	
890-2139-8	PH02B	114	99	
890-2139-9	PH03A	113	105	
890-2139-10	PH03B	115	95	
890-2139-11	PH04A	115	96	
890-2139-12	PH04B	111	105	
LCS 880-22440/1-A	Lab Control Sample	105	104	
LCSD 880-22440/2-A	Lab Control Sample Dup	118	100	
MB 880-22418/5-A	Method Blank	98	101	
IVID 000 ZZ-10/0 / (Method Blank	98	98	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acce	ptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-2139-1	SS05	106	123	
890-2139-1 MS	SS05	120	34 S1+	
890-2139-1 MSD	SS05	108	116	
890-2139-2	SS06	103	114	
890-2139-3	SS07	100	113	
890-2139-4	SS08	102	112	
890-2139-5	PH01A	99	114	
890-2139-6	PH01B	103	113	
890-2139-7	PH02A	106	119	
890-2139-8	PH02B	96	113	
890-2139-9	PH03A	101	116	
890-2139-10	PH03B	103	116	
890-2139-11	PH04A	101	115	
	PH04B	98	109	

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OTPH = o-Terphenyl

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

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

Matrix: Solid Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-22469/2-A	Lab Control Sample	109	120	
LCSD 880-22469/3-A	Lab Control Sample Dup	94	104	
MB 880-22469/1-A	Method Blank	103	116	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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3

4

6

0

9

1 1

13

Job ID: 890-2139-1 Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22418/5-A

Lab Sample ID: MB 880-22440/5-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22418

1		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
١	Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
١	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
١	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
١	o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
		MD	MD						

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

03/28/22 09:00 03/28/22 18:08 **Client Sample ID: Method Blank**

03/28/22 09:00 03/28/22 18:08

Analyzed

Prepared

Prep Batch: 22440

Matrix: Solid **Prep Type: Total/NA Analysis Batch: 22425**

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/28/22 08:36	03/29/22 05:43	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/28/22 08:36	03/29/22 05:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/28/22 08:36	03/29/22 05:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/28/22 08:36	03/29/22 05:43	1

Lab Sample ID: LCS 880-22440/1-A

Matrix: Solid

Analysis Batch: 22425

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

Prep Batch: 22440

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	0.200	0.2474		mg/Kg		124	70 - 130	
o-Xylene	0.100	0.1219		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-22440/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 22425							Batch: 2	h: 22440		
•	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0 100	0.08758		ma/Ka		88	70 - 130	20	35	

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Dil Fac

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Lab Sample ID: LCSD 880-22440/2-A

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 22440

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.09000 mg/Kg 90 70 - 130 11 35 Ethylbenzene 0.100 0.09433 mg/Kg 94 70 - 1309 35 0.200 0.2330 mg/Kg 117 70 - 130 35 m-Xylene & p-Xylene 6 0.100 35 o-Xylene 0.1183 mg/Kg 118 70 - 130 3

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2139-1 MS

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: SS05 Prep Type: Total/NA

Prep Batch: 22440

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier D %Rec Limits Unit Benzene <0.00198 U F1 0.100 0.01667 F1 17 70 - 130 mg/Kg Toluene <0.00198 UF1 0.100 0.01424 F1 mg/Kg 14 70 - 130 Ethylbenzene <0.00198 U F2 F1 0.100 0.009383 F1 mg/Kg 9 70 - 130 m-Xylene & p-Xylene 0.200 13 <0.00397 U F1 0.02545 F1 mg/Kg 70 - 130 o-Xylene <0.00198 UF1 0.100 0.01679 F1 mg/Kg 17 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-2139-1 MSD

Matrix: Solid

Analysis Batch: 22425

Client Sample ID: SS05 Prep Type: Total/NA

Prep Batch: 22440

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.0996	0.01395	F1	mg/Kg		14	70 - 130	18	35
Toluene	<0.00198	U F1	0.0996	0.01110	F1	mg/Kg		11	70 - 130	25	35
Ethylbenzene	<0.00198	U F2 F1	0.0996	0.006320	F2 F1	mg/Kg		6	70 - 130	39	35
m-Xylene & p-Xylene	<0.00397	U F1	0.199	0.01959	F1	mg/Kg		10	70 - 130	26	35
o-Xylene	<0.00198	U F1	0.0996	0.01230	F1	mg/Kg		12	70 - 130	31	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-22469/1-A

Matrix: Solid

Analysis Batch: 22434

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 22469

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/28/22 10:57 03/28/22 11:23 (GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Client Sample ID: Method Blank Lab Sample ID: MB 880-22469/1-A **Matrix: Solid Prep Type: Total/NA Analysis Batch: 22434** Prep Batch: 22469

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 11:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/22 10:57	03/28/22 11:23	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/28/22 10:57	03/28/22 11:23	1
o-Ternhenyl	116		70 130			03/28/22 10:57	03/28/22 11:23	1

o respiration		7.70	70-700				00,2	-0/22 /0.0	00,20,2220
Lab Sample ID: LCS 880 Matrix: Solid Analysis Batch: 22434	-22469/2-A					Clien	nt Sai	mple ID	Prep Type: Total/NA Prep Batch: 22469
-			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	950.2		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)			1000	975.9		mg/Kg		98	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	120		70 - 130						
Lab Sample ID: LCSD 88	80-22469/3-A				(Client Sai	mple	ID: Lat	Control Sample Dup

Matrix: Solid Analysis Batch: 22434							Prep Ty Prep E		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	749.9	*1	mg/Kg		75	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	1000	794.2	*1	mg/Kg		79	70 - 130	21	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-2139 Matrix: Solid Analysis Batch: 22434		Sample	Spike	MS	MS			C	Prep Typ	ole ID: SS05 oe: Total/NA atch: 22469
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	998	995.7		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U *1	998	844.0		mg/Kg		80	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	120		70 - 130							
o-Terphenyl	134	S1+	70 - 130							

Job ID: 890-2139-1

SDG: 31403236.029 TASK 12.02

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

Lab Sample ID: 890-2139-1 MSD

Matrix: Solid

Analysis Batch: 22434

Client: WSP USA Inc.

Project/Site: BEU DI 4

Client Sample ID: SS05 **Prep Type: Total/NA** Prep Batch: 22469

Allalysis Datell. 22404									1 1 CP L	Jacon. 2	LZ-T03
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U *1	997	887.0		mg/Kg		87	70 - 130	12	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U *1	997	742.4		mg/Kg		70	70 - 130	13	20
040 000)											

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	116		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Method Blank Lab Sample ID: MB 880-22795/1-A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22867

MB MB

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 l	U	5.00	mg/Kg			04/02/22 19:50	1

Lab Sample ID: LCS 880-22795/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 22867

	Spike	LCS	LCS				%Rec	
Analyte	Added	l Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.9	,	mg/Kg	_	103	90 - 110	

Lab Sample ID: LCSD 880-22795/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22867

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.5		mg/Kg		103	90 - 110	0	20	

Lab Sample ID: 890-2139-4 MS

Matrix: Solid

Analysis Batch: 22867

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	6.05		250	262.0		ma/Ka		102	90 - 110	

Lab Sample ID: 890-2139-4 MSD

Matrix: Solid

Analysis Ratch: 22967

Alialysis Dalcii. 22001											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	6.05		250	257.4		mg/Kg		101	90 - 110	2	20

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Client Sample ID: SS08

Client Sample ID: SS08

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-22993/1-A

Lab Sample ID: LCS 880-22993/2-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 23129

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 04/07/22 13:12 Chloride <5.00 U mg/Kg

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Matrix: Solid Analysis Batch: 23129

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 253.6 90 - 110 mg/Kg 101

Lab Sample ID: LCSD 880-22993/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 23129

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 254.1 102 90 - 110 20 mg/Kg

Lab Sample ID: 890-2135-A-1-I MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23129

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 248 300.1 59.6 mg/Kg 97 90 - 110

Lab Sample ID: 890-2135-A-1-J MSD

Matrix: Solid

Analysis Batch: 23129

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Limits RPD Limit Result Qualifier %Rec Chloride 59.6 248 310.6 101 3 20 mg/Kg 90 - 110

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 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

GC VOA

Prep Batch: 22418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22418/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Total/NA	Solid	8021B	22440
890-2139-2	SS06	Total/NA	Solid	8021B	22440
890-2139-3	SS07	Total/NA	Solid	8021B	22440
890-2139-4	SS08	Total/NA	Solid	8021B	22440
890-2139-5	PH01A	Total/NA	Solid	8021B	22440
890-2139-6	PH01B	Total/NA	Solid	8021B	22440
890-2139-7	PH02A	Total/NA	Solid	8021B	22440
890-2139-8	PH02B	Total/NA	Solid	8021B	22440
890-2139-9	PH03A	Total/NA	Solid	8021B	22440
890-2139-10	PH03B	Total/NA	Solid	8021B	22440
890-2139-11	PH04A	Total/NA	Solid	8021B	22440
890-2139-12	PH04B	Total/NA	Solid	8021B	22440
MB 880-22418/5-A	Method Blank	Total/NA	Solid	8021B	22418
MB 880-22440/5-A	Method Blank	Total/NA	Solid	8021B	22440
LCS 880-22440/1-A	Lab Control Sample	Total/NA	Solid	8021B	22440
LCSD 880-22440/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22440
890-2139-1 MS	SS05	Total/NA	Solid	8021B	22440
890-2139-1 MSD	SS05	Total/NA	Solid	8021B	22440

Prep Batch: 22440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Total/NA	Solid	5035	
890-2139-2	SS06	Total/NA	Solid	5035	
890-2139-3	SS07	Total/NA	Solid	5035	
890-2139-4	SS08	Total/NA	Solid	5035	
890-2139-5	PH01A	Total/NA	Solid	5035	
890-2139-6	PH01B	Total/NA	Solid	5035	
890-2139-7	PH02A	Total/NA	Solid	5035	
890-2139-8	PH02B	Total/NA	Solid	5035	
890-2139-9	PH03A	Total/NA	Solid	5035	
890-2139-10	PH03B	Total/NA	Solid	5035	
890-2139-11	PH04A	Total/NA	Solid	5035	
890-2139-12	PH04B	Total/NA	Solid	5035	
MB 880-22440/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22440/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22440/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2139-1 MS	SS05	Total/NA	Solid	5035	
890-2139-1 MSD	SS05	Total/NA	Solid	5035	

Analysis Batch: 22577

Lab Sample ID 890-2139-1	Client Sample ID SS05	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-2139-2	SS06	Total/NA	Solid	Total BTEX	
890-2139-3	SS07	Total/NA	Solid	Total BTEX	
890-2139-4	SS08	Total/NA	Solid	Total BTEX	
890-2139-5	PH01A	Total/NA	Solid	Total BTEX	
890-2139-6	PH01B	Total/NA	Solid	Total BTEX	

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 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
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GC VOA (Continued)

Analysis Batch: 22577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-7	PH02A	Total/NA	Solid	Total BTEX	
890-2139-8	PH02B	Total/NA	Solid	Total BTEX	
890-2139-9	PH03A	Total/NA	Solid	Total BTEX	
890-2139-10	PH03B	Total/NA	Solid	Total BTEX	
890-2139-11	PH04A	Total/NA	Solid	Total BTEX	
890-2139-12	PH04B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Total/NA	Solid	8015B NM	22469
890-2139-2	SS06	Total/NA	Solid	8015B NM	22469
890-2139-3	SS07	Total/NA	Solid	8015B NM	22469
890-2139-4	SS08	Total/NA	Solid	8015B NM	22469
890-2139-5	PH01A	Total/NA	Solid	8015B NM	22469
890-2139-6	PH01B	Total/NA	Solid	8015B NM	22469
890-2139-7	PH02A	Total/NA	Solid	8015B NM	22469
890-2139-8	PH02B	Total/NA	Solid	8015B NM	22469
890-2139-9	PH03A	Total/NA	Solid	8015B NM	22469
890-2139-10	PH03B	Total/NA	Solid	8015B NM	22469
890-2139-11	PH04A	Total/NA	Solid	8015B NM	22469
890-2139-12	PH04B	Total/NA	Solid	8015B NM	22469
MB 880-22469/1-A	Method Blank	Total/NA	Solid	8015B NM	22469
LCS 880-22469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22469
LCSD 880-22469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22469
890-2139-1 MS	SS05	Total/NA	Solid	8015B NM	22469
890-2139-1 MSD	SS05	Total/NA	Solid	8015B NM	22469

Prep Batch: 22469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Total/NA	Solid	8015NM Prep	-
890-2139-2	SS06	Total/NA	Solid	8015NM Prep	
890-2139-3	SS07	Total/NA	Solid	8015NM Prep	
890-2139-4	SS08	Total/NA	Solid	8015NM Prep	
890-2139-5	PH01A	Total/NA	Solid	8015NM Prep	
890-2139-6	PH01B	Total/NA	Solid	8015NM Prep	
890-2139-7	PH02A	Total/NA	Solid	8015NM Prep	
890-2139-8	PH02B	Total/NA	Solid	8015NM Prep	
890-2139-9	PH03A	Total/NA	Solid	8015NM Prep	
890-2139-10	PH03B	Total/NA	Solid	8015NM Prep	
890-2139-11	PH04A	Total/NA	Solid	8015NM Prep	
890-2139-12	PH04B	Total/NA	Solid	8015NM Prep	
MB 880-22469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2139-1 MS	SS05	Total/NA	Solid	8015NM Prep	
890-2139-1 MSD	SS05	Total/NA	Solid	8015NM Prep	

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 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

GC Semi VOA

Analysis Batch: 22541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Total/NA	Solid	8015 NM	
890-2139-2	SS06	Total/NA	Solid	8015 NM	
890-2139-3	SS07	Total/NA	Solid	8015 NM	
890-2139-4	SS08	Total/NA	Solid	8015 NM	
890-2139-5	PH01A	Total/NA	Solid	8015 NM	
890-2139-6	PH01B	Total/NA	Solid	8015 NM	
890-2139-7	PH02A	Total/NA	Solid	8015 NM	
890-2139-8	PH02B	Total/NA	Solid	8015 NM	
890-2139-9	PH03A	Total/NA	Solid	8015 NM	
890-2139-10	PH03B	Total/NA	Solid	8015 NM	
890-2139-11	PH04A	Total/NA	Solid	8015 NM	
890-2139-12	PH04B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-4	SS08	Soluble	Solid	DI Leach	
890-2139-5	PH01A	Soluble	Solid	DI Leach	
890-2139-6	PH01B	Soluble	Solid	DI Leach	
890-2139-7	PH02A	Soluble	Solid	DI Leach	
890-2139-8	PH02B	Soluble	Solid	DI Leach	
890-2139-9	PH03A	Soluble	Solid	DI Leach	
890-2139-10	PH03B	Soluble	Solid	DI Leach	
890-2139-11	PH04A	Soluble	Solid	DI Leach	
890-2139-12	PH04B	Soluble	Solid	DI Leach	
MB 880-22795/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22795/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22795/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2139-4 MS	SS08	Soluble	Solid	DI Leach	
890-2139-4 MSD	SS08	Soluble	Solid	DI Leach	

Analysis Batch: 22867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-4	SS08	Soluble	Solid	300.0	22795
890-2139-5	PH01A	Soluble	Solid	300.0	22795
890-2139-6	PH01B	Soluble	Solid	300.0	22795
890-2139-7	PH02A	Soluble	Solid	300.0	22795
890-2139-8	PH02B	Soluble	Solid	300.0	22795
890-2139-9	PH03A	Soluble	Solid	300.0	22795
890-2139-10	PH03B	Soluble	Solid	300.0	22795
890-2139-11	PH04A	Soluble	Solid	300.0	22795
890-2139-12	PH04B	Soluble	Solid	300.0	22795
MB 880-22795/1-A	Method Blank	Soluble	Solid	300.0	22795
LCS 880-22795/2-A	Lab Control Sample	Soluble	Solid	300.0	22795
LCSD 880-22795/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22795
890-2139-4 MS	SS08	Soluble	Solid	300.0	22795
890-2139-4 MSD	SS08	Soluble	Solid	300.0	22795

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 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

HPLC/IC

Leach Batch: 22993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Soluble	Solid	DI Leach	
890-2139-2	SS06	Soluble	Solid	DI Leach	
890-2139-3	SS07	Soluble	Solid	DI Leach	
MB 880-22993/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2139-1	SS05	Soluble	Solid	300.0	22993
890-2139-2	SS06	Soluble	Solid	300.0	22993
890-2139-3	SS07	Soluble	Solid	300.0	22993
MB 880-22993/1-A	Method Blank	Soluble	Solid	300.0	22993
LCS 880-22993/2-A	Lab Control Sample	Soluble	Solid	300.0	22993
LCSD 880-22993/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22993
890-2135-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	22993
890-2135-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22993

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Job ID: 890-2139-1

Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: SS05 Lab Sample ID: 890-2139-1

Date Collected: 03/24/22 10:50 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 06:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	CH	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 18:05	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-2139-2

Date Collected: 03/24/22 10:55 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 18:11	CH	XEN MID

Client Sample ID: SS07 Lab Sample ID: 890-2139-3 Date Collected: 03/24/22 12:00 **Matrix: Solid**

Date Received: 03/24/22 16:43

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 06:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 13:48	AJ	XEN MID
Soluble	Leach	DI Leach			22993	04/05/22 09:10	СН	XEN MID
Soluble	Analysis	300.0		1	23129	04/07/22 18:17	CH	XEN MID

Client Sample ID: SS08 Lab Sample ID: 890-2139-4 Date Collected: 03/24/22 12:05

Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 07:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID

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Matrix: Solid

Job ID: 890-2139-1

SDG: 31403236.029 TASK 12.02

Client Sample ID: SS08

Client: WSP USA Inc.

Project/Site: BEU DI 4

Date Collected: 03/24/22 12:05 Date Received: 03/24/22 16:43

Lab Sample ID: 890-2139-4

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 14:09	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	CH	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 20:16	CH	XEN MID

Client Sample ID: PH01A Lab Sample ID: 890-2139-5

Date Collected: 03/24/22 13:10 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 07:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	СН	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 20:43	CH	XEN MID

Client Sample ID: PH01B Lab Sample ID: 890-2139-6

Date Collected: 03/24/22 13:15 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 07:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 14:51	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	CH	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 20:52	CH	XEN MID

Client Sample ID: PH02A Lab Sample ID: 890-2139-7 Date Collected: 03/24/22 13:25 Matrix: Solid

Date Received: 03/24/22 16:43

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 08:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	22469 22434	03/28/22 10:57 03/28/22 15:12		XEN MID XEN MID

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5/2/2022 (Rev. 1)

Job ID: 890-2139-1

Client: WSP USA Inc. Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH02A Lab Sample ID: 890-2139-7

Date Collected: 03/24/22 13:25 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			22795	04/01/22 11:44	CH	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 21:01	CH	XEN MID

Lab Sample ID: 890-2139-8 Client Sample ID: PH02B

Date Collected: 03/24/22 13:30 **Matrix: Solid** Date Received: 03/24/22 16:43

Batch Batch Dilution Batch **Prepared** Method **Prep Type** Type Number or Analyzed Run **Factor** Analyst Lab 5035 XEN MID Total/NA Prep 22440 03/28/22 08:36 KL Total/NA 8021B 22425 03/29/22 08:35 KL Analysis XEN MID 1 Total/NA Analysis Total BTEX 1 03/29/22 14:02 AJ XEN MID 22577 Total/NA 8015 NM XEN MID Analysis 1 22541 03/29/22 10:55 AJ Total/NA Prep 8015NM Prep 22469 03/28/22 10:57 AM XEN MID Total/NA 8015B NM 22434 03/28/22 15:33 AJ XEN MID Analysis 1 Soluble DI Leach 22795 04/01/22 11:44 CH XEN MID Leach XEN MID Soluble Analysis 300.0 22867 04/02/22 21:10 CH

Client Sample ID: PH03A Lab Sample ID: 890-2139-9

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Date Collected: 03/24/22 13:45 **Matrix: Solid** Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 08:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 15:54	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	СН	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 21:36	CH	XEN MID

Client Sample ID: PH03B Lab Sample ID: 890-2139-10 Date Collected: 03/24/22 13:50 **Matrix: Solid**

Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 09:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	СН	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 21:45	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-2139-1

 Project/Site: BEU DI 4
 SDG: 31403236.029 TASK 12.02

Client Sample ID: PH04A Lab Sample ID: 890-2139-11

Date Collected: 03/24/22 13:55

Date Received: 03/24/22 16:43

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 13:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	СН	XEN MID
Soluble	Analysis	300.0		1	22867	04/02/22 21:54	CH	XEN MID

Client Sample ID: PH04B

Date Collected: 03/24/22 14:00

Lab Sample ID: 890-2139-12

Matrix: Solid

Date Received: 03/24/22 16:43

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22440	03/28/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	22425	03/29/22 13:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	22577	03/29/22 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	22541	03/29/22 10:55	AJ	XEN MID
Total/NA	Prep	8015NM Prep			22469	03/28/22 10:57	AM	XEN MID
Total/NA	Analysis	8015B NM		1	22434	03/28/22 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			22795	04/01/22 11:44	СН	XEN MID
Soluble	Analysis	300.0		1	22867	04/04/22 11:19	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4

SDG: 31403236.029 TASK 12.02

Laboratory: Eurofins Midland

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

Authority Texas		rogram ELAP	Identification Number T104704400-21-22	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 which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: WSP USA Inc. Job ID: 890-2139-1 Project/Site: BEU DI 4 SDG: 31403236.029 TASK 12.02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc. Project/Site: BEU DI 4 Job ID: 890-2139-1

SDG: 31403236.029 TASK 12.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2139-1	SS05	Solid	03/24/22 10:50	03/24/22 16:43	0.5
890-2139-2	SS06	Solid	03/24/22 10:55	03/24/22 16:43	0.5
890-2139-3	SS07	Solid	03/24/22 12:00	03/24/22 16:43	0.5
890-2139-4	SS08	Solid	03/24/22 12:05	03/24/22 16:43	0.5
890-2139-5	PH01A	Solid	03/24/22 13:10	03/24/22 16:43	1
890-2139-6	PH01B	Solid	03/24/22 13:15	03/24/22 16:43	2
890-2139-7	PH02A	Solid	03/24/22 13:25	03/24/22 16:43	1
890-2139-8	PH02B	Solid	03/24/22 13:30	03/24/22 16:43	2
890-2139-9	PH03A	Solid	03/24/22 13:45	03/24/22 16:43	1
890-2139-10	PH03B	Solid	03/24/22 13:50	03/24/22 16:43	2
890-2139-11	PH04A	Solid	03/24/22 13:55	03/24/22 16:43	1
890-2139-12	PH04B	Solid	03/24/22 14:00	03/24/22 16:43	2

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X		1		Houston,T)	X (281) 240-42	00 Dalla	as,TX (2	:14) 902 × (915)	-0300 \$	Houston.TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334		
		1	Hobbs,	NM (575-392-7	550) Phoenix,/	72 (480	355-090	00) Atla	nta,GA	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	620-2000) www.xenco.com ² age 1	of •
Project Manager: T	Tacoma Morissey	У		В	Bill to: (if different)	3	Adrian Baker	Baker			Work Order Comments	
	WSP USA Inc.			0	Company Name:		XTO Energy	nergy			□PRP □Brownfields □RC	_uperfund
Address: 3	3300 North A Stree	eet		Þ	Address:		3104 E Green Street	Green	Street]
City, State ZIP: N	Midland, TX 79705	25		0	City, State ZIP:		Carlsbad, NM 88220	d, NM	88220		Reporting:Level II Level III ST/UST RRP	evel IV
	432.236.3849			Email: c	onner.shore	@wsp	com;	Tacor	na.moi	Email: conner.shore@wsp.com; Tacoma.morissey@wsp.com	Deliverables: EDD ADaPT Other	
Name:		BEU DI 4	4	Turr	Turn Around					ANALYSIS REQUEST		Work Order Notes
Project Number:	3140323	6.029 T	31403236.029 Task 12.02	Routine	° X						NAPP2205649749	NAPP2205649749& NAPP 2203453168
P.O. Number:	CC:	CC:1080851001	1001	Rush:							API: 30-	API: 30-15-43285
Sampler's Name: C	Conner Shore			Due Date	ate:							
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice: Yes	Yes) No	; 			_			
Temperature (°C):	1/2/	4	7	Thermometer ID		iner			0)			
Received Intact:	es	No)	7 M	WW00	3	onta	5)	8021	300.	890-2139 C	890-2139 Chain of Custody	
Sample Custody Seals:	Yes No	N .	Total	Total Containers:		of (801	PA 0:	(EP/		lab, if receiv	lab, if received by 4:30pm
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Numbe	TPH (EP	BTEX (E	Chloride		Sample	Sample Comments
FS01		S	3/24/2022	1050	0.5'		×	×	×		COM	COMPOSITE
FS02		s	3/24/2022	1055	0.5'		×	×	×		COM	COMPOSITE
FS03		s	3/24/2022	1200	0.5'		×	×	×			
FS04		s	3/24/2022	1205	0.5		×	×	×			
PH01A		s	3/24/2022	1310	-1	_	×	×	×			
PH01B		s	3/24/2022	1315	Ŋ		×	×	×			
PH02A		s	3/24/2022	1325	<u></u>		×	×	×			
PH02B		s	3/24/2022	1330	2'		×	×	×			
РНОЗА		s	3/24/2022	1345	<u></u>		×	×	×			
PH03B		s	3/24/2022	1350	2	1	×	×	×			
Total 200.7 / 6010	0 200.8 / 6020:	20:	<u>م</u>	8RCRA 13PPM Texas 11 A	13PPM Texas 11	- 1	Sb As Sb As	Ba Ba	Be B	B Cd Ca Cr Co Cu Fe Pb Mg Cd Cr Co Cu Pb Mn Mo Ni Se	⊿ Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn ∕nn Mo Ni Se Ag Tl U 1631/245.1/7470/7471:Hg	V Zn 70 / 7471 : Hg
										too and subcontractors. It assigns	setandard forms and conditions	
lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Aerica, its annuares and succonductors of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	cument and relinquist ble only for the cost ge of \$75.00 will be a	hment of of sample pplied to	samples constitutes and shall not a sach project and	ssume any response terms a valid purchase any response to the same and the same areas are same as a valid purchase as a valid	nase order from onsibility for any or each sample s	losses ubmitte	or exper	ses incu	irred by ot analyz	odice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to xenco, its aniliates and succontractors. It easily is sentence to the 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 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.	enforced unless previously negotiated.	
Relinquished by: (Signature)	Signature)		Received b	Received by; (Signature)	9)		Date/Time	ime		Relinquished by: (Signature)	ture) Received by: (Signature)	Date/Time
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X	XMZCO			Houston,T	X (281) 240-42	00 Dall	as,TX (2	14) 902	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Ì) (Po
	(-1	Hobbs,	NM (575-392-7	550) Phoenix,/	AZ (480.	355-090	0) Atlaı	milianiu, ۱۸ (۱۹۵۲) المارة المارة (۱۹۵۶) المارة المارة (۱۹۵۶) المارة المارة (۱۹۵۶) (۱۹۵۶) (۱۹۵۶) Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	-620-2000) www.xenco.com ² age	50 O
Project Manager: Ta	Tacoma Morissey	У			Bill to: (if different)	nt)	Adrian Baker	Baker		Work Order Comments	- (a)
	WSP USA Inc.				Company Name		XTO Energy	ergy		Program: UST/PST □PRP □Brownfields □RC	_uperfund _
	3300 North A Street	eet		,	Address:		3104 E Green Street	Green	Street	State of Project:]
e ZIP:	Midland, TX 79705	S		0	City, State ZIP:		Carlsbad, NM 88220	d, NM	38220	Reporting:Level II PST/UST RRP	evel IV
	432.236.3849			Email: ç	conner.shore	e@wsp	.com;	Tacon	Email: conner.shore@wsp.com; Tacoma.morissey@wsp.com	Deliverables: EDD ADaPT Otl	Other:
Project Name:		BEU DI 4	4	Tur	Turn Atound				ANALYSIS REQUEST		Work Order Notes
Project Number:	3140323	6.029 T	31403236.029 Task 12.02	Routine	ie X					NAPP2205649	NAPP2205649749& NAPP 2203453168
P.O. Number:	CC:	CC:1080851001	1001	Rush:						API:	API: 30-15-43285
me:	Conner Shore			Due Date:	ate:					-	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	3		_			
Temperature (°C):)]	heumometer ID		iner		_))		
Received Intact:	Yes	No.	A	-		nta)	021)	300.0		
Cooler Custody Seals:	Yes	N. C.	Correc	Correction Factor:		f Co	3015	0=8	PA	TAT starts th	the
Sample Custody Seals:	CHES NO	N/A	Total	Total Containers:		er o	PA 8	EPA	le (E	lab, if re	lab, if received by 4:30pm
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Numbe	TPH (E	BTEX (Chlorid	Samp	Sample Comments
PH04A		s	3/24/2022	1355	1'	1	×	×	×	CC	COMPOSITE
PH04B		s	3/24/2022	1400	2'		×	×	×	cc	COMPOSITE
							<u> </u>	-			
							-				
								$\mid \downarrow \mid$			
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: and Metal(s) to be	20: o be ana	<u>ه</u>	8RCRA 13PPM TCLP / SPLP 6	RCRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA	- 11	Sb As Sb As	Ba	B Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn M	Mn Mo Ni K Se Ag SiO2 Ag TI U	Na Sr Ti Sn ∪ V Zn 1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this doo of service. Xenco will be lia	cument and relinquist ble only for the cost	shment of a	samples constitu	ites a valid purc ssume any resp a charge of \$5 fo	hase order from onsibility for any	client co y losses	mpany to Yend	o Xenco, ses incu	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ns standard terms and conditions circumstances beyond the control unless previously negotiated.	
	Signature)		Received b	Received by: (Signature)	θ)		Date/Time	me	Relinquished by: (Signature)	iture) Received by: (Signature)	Date/Time
N N			190 C	6		W	SH. 3	2	143		
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Chain of Custody Record

Phone: 575-988-3199																		
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer, Jessica	"	1				Carrier Tracking No(s):	Trackir	g No(s	Ä		ထ္က ဥ	COC No: 890-687 1	
	Phone:			E-Mail jessica	E-Mail jessica kramer@eurofinset.com	@euro	inset.	com			State of Origin. New Mexico	Origin	•			ए ए	Page [.] Page 1 of 2	
Company Eurofins Environment Testing South Centr				Z à	Accreditations Required (See note): NELAP - Louisiana NELAP	s Requi	ned (Se	e note) ELAP	_{ote):} AP - Texas							œ 등	Job #: 890-2139-1	
Address 1211 W Florida Ave,	Due Date Requested 3/30/2022	٥						Ana	lvsis	nalysis Requested	leste	ă				اق.	Preservation Codes	des:
City: Midland	TAT Requested (days):	/s):							寸			\dashv) III >	B - NaOH	M - Hexane N - None
State Zip: TX, 79701					трн											ımızı	D- Nitric Acid E - NaHSO4	P Na2O4S Q - Na2SO3
Phone: 432-704-5440(Tel)	PO#			1			le									r o T	F MeOH G Amchlor	R - N82S2O3 S - H2SO4
Email	WO #:			or No	0)			EX									l ice J - Di Water	U - Acetone V MCAA
Project Name: BEU DI 4	Project #: 89000004			7075	s or I			OD) B1									L-EDA	W - pH 4-5 Z other (specify)
Site	SSOW#:			iamol	SD (Y				•			w 					Other [.]	
				Matrix ltered	n MS/M	D_Calc	GFM_28	035FP_0 TEX_GC								lumber		
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FS01 (890-2139-1)	3/24/22	10 50 Mountain		Solid	×	×	×	×	×							بد		
FS02 (890-2139-2)	3/24/22	10 55 Mountain		Solid	×	×	×	×	×					_		-		
FS03 (890-2139-3)	3/24/22	12 00 Mountain		Solid	×	×	×	×	<u> </u>							_		
FS04 (890-2139-4)	3/24/22	12 05 Mountain		Solid	×	×	×	×	<u>×</u>									
PH01A (890-2139-5)	3/24/22	13 10 Mountain		Solid	×	×	×	×	×									
PH01B (890-2139-6)	3/24/22	13 15 Mountain		Solid	×	×	×	×	×							1		
PH02A (890-2139-7)	3/24/22	13 25 Mountain		Solid	×	×	×	×	×							4		
PH02B (890-2139-8)	3/24/22	13 30 Mountain		Solid	×	×	×	×	×							1		
PH03A (890-2139-9)	3/24/22	13 45 Mountain		Solid	×	×	×	×	×							بد		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central 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 Environment Testing or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC.	ant Testing South Centra above for analysis/tests/r sentral LLC attention imr	al LLC places the matrix being and mediately If all	ne ownership of alyzed, the sam requested accr	method, analyt ples must be sh editations are c	e & accred hipped back	itation ck to the ate retu	omplia Eurofin m the :	nce upo s Envir signed	onment Chain o	pon out subcontract laboratories vironment Testing South Central ad Chain of Custody attesting to sa	act labouth South	oratorie Centra ting to	s Thi: I LLC said co	s samp laborat mplica	le ship ory or o	ment is other in Eurofir	s forwarded under nstructions will be p ns Environment Te	This sample shipment is forwarded under chain-of-custody. If the LC laboratory or other instructions will be provided. Any changes to id complicance to Eurofins Environment Testing South Central. LLC.
Possible Hazard Identification					Sample Disposal (A	e Dis	osal	Afe	e maj	fee may be assessed if samples	ssess	ed if	sam	les a]e re	aine	are retained longer than	than 1 month)
Deliverable Requested I, II III, IV, Other (specify)	Primary Deliverable Rank.	ble Rank. 2			Special Instructions/QC Requirements	Instructions/C	uction	s/QC	Requ	remer	nts	al By	Lab			Archi	Archive For	Months
Empty Kit Relinquished by		Date			Time	丨						Method of Shipment:	of Ship	ment				
Relinquished by () 3・35・35	Date/Time.		S	Company		Receiped by:	-X	\exists	4				D	Date/Time/	الر	2	もかる	Company
	Date/Time:		S	Company	Re	Received by	×.	4					D,	Date/Time:	*		***************************************	Company
Relinquished by	Date/Time		್ದ	Company	Re	Received by	۱						D.	Date/Time	•			Company
Custody Seals Intact: Custody Seal No					ç	Cooler Temperature(s) °C	nperatu	re(s)°(and C	and Other Remarks:	marks:							

Chain of Custody Record

A HO M Havana	luested	Analysis Requested	3/30/2022	1211 W Florida Ave ,
Preservation Codes:	•		Due Date Requested	
890-2139-1		NELAP - Louisiana, NELAP - Texas		Eurofins Environment Testing South Centr
Job#:		Accreditations Required (See note):		Company:
Page 2 of 2	New Mexico	jessica kramer@eurofinset.com	jess	Shipping/Receiving
Page.	State of Origin:	aii	Phone: E-Mail	Client Contact:
890-687 2		Kramer, Jessica	Kra	Client Information (Sub Contract Lab)
COC No.	Carrier Tracking No(s)		Sampler Lab PM	
				Phone, 575-988-3199 Fax. 575-988-3199
America		300.0		Carlsbad, NM 88220
Environment Testing		Record	Chain of Custody Record	1089 N Canal St
55				Eurofins Carlsbad

THORE, 3/0-800-3/88 FdX. 3/0-800-3/88																				
Client Information (Sub Contract Lab)	Sampler			Krame	Lab PM Kramer, Jessica	Ø					Cam	Carrier Tracking No(s)	king 7	o(s)			<u></u> 8 0	890-687 2		
	Phone:			E-Mail jessio	E-Mail jessica kramer@eurofinset.com	@euro	finset	com			State	State of Origin: New Mexico	8 gi				D D	Page. Page 2 of 2		
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Louisiana, NELAP -	ns Requ Louisia	ired (Se	e note) ELAP	 1	exas	ı						္က မ	Job#: 890-2139-1		
Address 1211 W Florida Ave ,	Due Date Requested 3/30/2022					İ		Ana	76 I	₽ Re		ře		ı	1	ı	<u> </u>	Preservation Codes	s.	
City Midland	TAT Requested (days):	s):						\dashv	\dashv	\dashv	\dashv						C B A	A - HCL B NaOH C - Zn Acetate	0 Z 3	M Hexane N - None O AsNaO2
State Zip: TX, 79701					ТРН												. m D	Nitric Acid NaHSO4	שם פ	Na2O4S Na2SO3
Phone: 432-704-5440(Tel)	PO#:						ie										± ο τ	F MeOH G - Amchlor H Ascorbic Acid	ᢇ᠕ᠵ	- Na2S2O3 H2SO4 TSP Dodecahydrate
Email:	WO#:				io)			TEX											< ⊂ ·	Acatone MCAA
Project Name [.] BEU DI 4	Project #: 89000004				es or			OD) B									MANAGER S	E EDA	ΝŞ	other (specify)
Site:	SSOW#:				SD (Y													Other [,]		
		Samole	Sample Type (C=comp	Matrix (W=water S=solid,	d Filtered form MS/M 5MOD_NM/8	5MOD_Calc	_ORGFM_28	1B/6035FP_	I_BTEX_GC								al Number			
		X	Preservation Code	tion Code:	X											\forall	4			
PH03B (890-2139-10)	3/24/22	13 50 Mountain		Solid	×	×	×	×	×								-			
PH04A (890-2139-11)	3/24/22	13 55 Mountain		Solid	×	×	×	×	×								-3			
PH04B (890-2139-12)	3/24/22	14 00 Mountain		Solid	×	×	×	×	×											
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									-	-+						W77 1230 80				
																T. C.				
											_					600°VC3000	3			
Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central 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 Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	Testing South Central ove for analysis/tests/n tral LLC attention imn	LLC places thatrix being arrediately If a	the ownership halyzed, the sa Il requested ac	of method ana imples must be creditations are	yte & accred shipped bac current to d	ditation on the k to the late returns	complia Eurofin	nce upo s Envir signed	on out : onmen Chain :	subcor nt Testi of Cust	itract I ng Sou lody at	aborato Ith Cer testing	ories ntral L to sai	This sa LC lab	imple orator olicano	shipm or ot e to E	ent is her in urofin	forwarded under structions will be ss Environment Te	chain- provid esting	of-custody If the led Any changes to South Central LLC.
Possible Hazard Identification Unconfirmed					Samp	le Disposal (A for Return To Client	posal	(A fe	e ma	∏be	asse Disp	assessed if san Disposal By Lab	if sa	mple.	s are	□reta A	inec Chiv	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	1 mc	onth) Months
Deliverable Requested I II III IV, Other (specify)	Primary Deliverable Rank 2	ole Rank 2			Specia	Special Instructions/QC Re	uction	s/QC		quirements	ents									
Empty Kit Relinquished by:		Date			Time ,				7			Met	Method of Shipment:	Shipm	ent:					
Relinquished by () www.) 3.25.23	Date/Time:			Company	R	Code	S	-	\neg					Date/Time:	Time:				<u>ρ</u>	Company
	Date/Time [.]	***************************************		Company	R	Rebeived by	y (į,						Date/Time:	Time:		ı		ဂ္ဂ	Company
Relinquished by:	Date/Time:			Company	짆	Received by	y.							Date/Time:	Time:				ဂ္ဂ	Company
Custody Seals Intact: Custody Seal No					ρ	Cooler Temperature(s) °C and Other Remarks	nperati	re(s) °	C and (Other F	Remark	Ģ.								

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2139-1

SDG Number: 31403236.029 TASK 12.02

Login Number: 2139 **List Source: Eurofins Carlsbad**

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2139-1 SDG Number: 31403236.029 TASK 12.02

Login Number: 2139 **List Source: Eurofins Midland** List Number: 2 Creator: Teel, Brianna

List Creation: 03/28/22 08:20 AM

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	



APPENDIX E

NMOCD Notifications

From: Green, Garrett J
To: Tacoma Morrissey

Subject: FW: XTO Site Activities for the Week of Mar 21

Date: Friday, May 6, 2022 10:38:40 AM

Attachments: <u>image002.png</u>

[**EXTERNAL EMAIL**]

From: Morrissey, Tacoma [mailto:Tacoma.Morrissey@wsp.com]

Sent: Thursday, March 17, 2022 10:51 AM

To: OCD.Enviro@state.nm.us

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; WSP-XTO-Project-Team <WSP-XTO-

Project-Team@wsp.com>

Subject: XTO Site Activities for the Week of Mar 21

All,

XTO will be completing excavation and sampling activities at the following sites next week. We anticipate collecting final confirmation samples.

Monday:

Tuesday:

Remuda Basin #1 / NAB1836137253

Wednesday:

- Remuda Basin #1 / NAB1836137253
- BEU 29W Vader 100H / nAPP2102831345

Thursday:

- Remuda Basin #1 / NAB1836137253
- BEU DI 4 / NAPP2203453168 & NAPP2205649749

Friday

- Remuda Basin #1 / NAB1836137253
- BEU DI 4 / NAPP2203453168 & NAPP2205649749

Saturday

• Remuda Basin #1 / NAB1836137253

Sunday

Remuda Basin #1 / NAB1836137253

Thank you,

Tacoma Morrissey

Consultant Geologist Office Manager, Midland



M+ 1 337-257-8307 WSP USA 3300 North A Street Bldg 1, Unit 222 Midland, Texas 79705

wsp.com

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-LAEmHhHzdJzBlTWfa4Hgs7pbKl

From: Hamlet, Robert, EMNRD

To: <u>Baker, Adrian</u>

Cc: DelawareSpills /SM; Tacoma Morrissey; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD

Subject: (Extension Approval) Big Eddy Unit DI 4 Tank Battery/ NAPP2203453168 & NAPP2205649749

Date: Wednesday, April 20, 2022 11:59:37 AM

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2203453168 & NAPP2205649749

Adrian,

Your request for an extension to **May 12th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Sent: Wednesday, April 20, 2022 10:18 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Subject: Fw: [EXTERNAL] XTO-Extension Request - Big Eddy Unit DI 4 Tank Battery/

NAPP2203453168 & NAPP2205649749

From: Baker, Adrian <adrian.baker@exxonmobil.com>

Sent: Wednesday, April 20, 2022 10:15 AM

To: Enviro, OCD, EMNRD < CCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Cc: DelawareSpills /SM < <u>DelawareSpills@exxonmobil.com</u>>; Tacoma Morrissey

<tmorrissey@ensolum.com>

Subject: [EXTERNAL] XTO-Extension Request - Big Eddy Unit DI 4 Tank Battery/ NAPP2203453168 &

NAPP2205649749

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on

links or opening attachments.

All,

XTO is requesting an extension of the current April 21, 2022, due date for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Big Eddy Unit DI 4 Tank Battery (Incident Numbers NAPP2203453168 and NAPP2205649749). The releases occurred on January 21, 2022, and February 11, 2022, respectively. Following scheduling with XTO operations to have the flare turned off to ensure the safety of all personnel, excavation of impacted soil was completed at the end of March 2022. Final laboratory analytical results are pending. In order to review the final analytical results and draft a remediation work plan or closure report XTO requests an extension until May 12, 2022, the due date of Incident Number NAPP2205649749.

Adrian Baker Environmental Coordinator Permian Business Unit

XTO Energy Inc. 6401 N. Holiday Hill Dr. Midland, Tx 79707 Mobile:(432)-236-3808 adrian.baker@exxonmobil.com

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 106359

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	106359
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2205649749 BIG EDDY UNIT DI 4 TANK BATTERY, thank you. This closure is approved.	6/21/2022