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**

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

OCT 0 5 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

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Release Notification and Corrective Action												
NAB11	128551	205				OPERA'	ГOR			al Report		Final Report
Name of Co	mpany: R	KI Explorati	on / WP	X Energy 24/			rolina Blaney					
Address: 53							No. 970 589 0743	3				
Facility Nan	ne: RDU I	11				Facility Type: Well Pad						
Surface Ow	ner: Feder	al		Mineral ()wner: I	Federal			API No	. 30- 015-2	24307	
				LOCA	ATION	OF RE	LEASE					
Unit Letter	Section	Township					Feet from the	East/V	East/West Line County			
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				NAT	TURE	OF REL	EASE					
Type of Relea		ed Water					Release: unknow	/n	Volume l	Recovered 0	bbls	
Source of Rewater transfer						Date and F 9/30/17	Hour of Occurrence	ce		Hour of Dis 7 at 15:00	covery	
Was Immedia	ate Notice (Yes [] No □ Not R	equired	If YES, To	Whom? Crystal Weaver &	Michae	el Bratcher,	BLM Shell	y Tuck	er
By Whom? K	arolina Bla	aney				Date and H	Hour 9/30/17 at 20	0:30				
Was a Watero		ched?				If YES, Vo	olume Impacting t	the Wate	ercourse.			
			Yes 🗵									
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*								
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based on the			p			P	-,					
I hereby certi	fy that the i	information o	iven above	e is true and com	alete to ti	he hest of my	knowledge and u	ındersta	nd that pur	suant to NM	OCD r	ules and
regulations al	ll operators	are required t	o report a	nd/or file certain	release n	otifications a	nd perform correc	ctive act	ions for re	leases which	may e	ndanger
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Printed Name	e: Karolina	Blaney						-				
Title: Enviro	nmental Sp	ecialist				Approval Da	ite: 10517		Expiration	Date: N	<u> </u>	
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Date: 10/5/1	17	Phone	: 970 589	0743				1111	WHELL	\perp α K	1-2	17 21

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/5/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District $\frac{2}{2}$ office in $\frac{ARTESIA}{ARTESIA}$ on or before $\frac{11/5/2017}{2017}$. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent: Thursday, October 5, 2017 1:13 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc:Bratcher, Mike, EMNRD; Raley, JimSubject:WPX/RKI RDU 11 initial spill report

Attachments: RDU 11 C-141 9-21-17.doc; RDU 11 C-141 9-30-17.doc

Good afternoon,

Attached are two C-141 reports for spills that occurred on 9/21 and 9/30 south of the RDU 11 well pad. The footprint of both spills is very similar and the majority is overlapping. Our plan is to remediate and close both spills at the same time however, I understand that you will be assigning two separate incident numbers and I might need to submit separate paperwork.

Please let me know if you have any questions or suggestions.

Thank you,

Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514

Office: (575) 885-7514 Cell: (970) 589-0743

karolina.blaney@wpxenergy.com

From: Blaney, Karolina

Sent: Saturday, September 30, 2017 8:26 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us> **Cc:** mike.bratcher@state.nm.us; Raley, Jim < James.Raley@wpxenergy.com>

Subject: WPX/RKI RDU 11 initial spill report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you,

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent: Saturday, September 30, 2017 8:26 PM
To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc: Bratcher, Mike, EMNRD; Raley, Jim Subject: WPX/RKI RDU 11 initial spill report

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The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you, Karolina Blaney 970 589 0743

	Page o of 21
dent ID	nAB1728551205
rict RP	

Incident ID	nAB1728551205
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales than 20 days after the resease discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (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 X 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?	X Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well	ls.

	tanning associated with the release have been determined. Refer to 17.13.27.11 NVIVIC for specifies.
<u>C</u> h	naracterization Report Checklist: Each of the following items must be included in the report.
XXX	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
	Depth to water determination
X	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs
X	Photographs including date and GIS information
	Laboratory data including chain of custody

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

Received by OCD: 4/4/2022 11:03:24 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 7 of 2	11
Incident ID	nAB1728551205	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	oCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Titl: Environmental Professional
Signature:	Date:4/4/2022
email: _ jim.raley@dvn.com	Telephone: 575-686-7597
OCD Only	
Received by:	Date:

Remediation Plan Checklist: Each of the following items must be included in the plan.

State of New Mexico

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.13 Proposed schedule for remediation (note if remediation plan times	
Deferral Requests Only: Each of the following items must be conjugate to the conjugate of the following items and the conjugate of the following items are the conjugate of the following items and the conjugate of the following items are the conjugate of the conjug	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health,	, the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local later than the printed Name: Jim Raley	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, cceptance of a C-141 report does not relieve the operator of
Signature:	Date:4/4/2022
email:jim.raley@dvn.com	Telephone: <u>575-686-7597</u>
OCD Only	
Received by:	Date:
☐ Approved With Attached Conditions of A	Approval
Signature: Hall	Date: 10/4/2022

Conditions of Approval:

- 1. Horizontal delineation of the releases will be defined through delineation samples
- or 5-point composite sidewall samples following the removal of residual impacts. Base and sidewalls confirmation samples must be collected and analyzed for parameters listed in Table I of 19.15.29.12 NMAC.
- 2. The OCD approves a confirmation sample size variance of up to but no more than 400 square feet per sample.
- 3. Any on-site ex-situ treatment option must have a plan submitted and approved by the OCD prior to implementation.
- 4. The deferral request for nAB1632647780 has been denied. This release has not been fully delineation per 19.15.29.12 NMAC. Samples from past releases cannot be used for delineation of release that happened at a later date.
- 5. It is recommended that individual reports for all incidents be submitted especially when variances, deferrals, etc. are requested.



REMEDIATION WORK PLAN AND DEFERRAL REQUEST REPORT

Site Location:

Ross Draw Unit #011 Eddy County, New Mexico Incident Numbers: NHMP1412241998 nAB1632647780 nAB1712951426 nAB1728553778 nAB1728551205 nAPP2200728755

April 1, 2022 Ensolum Project No. 03A1987006

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

Joseph S. Hernandez Senior Geologist Ashley A. Uger
Ashley Ager, M.S., PG
Program Director, Geologist

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report April 1, 2022



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Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan Report (RWP) to document site assessment, soil sampling activities and preliminary corrective actions performed to date by WPX Permian Energy, LLC (WPX) at the Ross Draw Unit #011 (hereinafter referred to as the "Site") in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1 in Appendix A). Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX respectfully submits this RWP, which summarizes soil sampling activities and initial response efforts that have occurred and proposes additional remediation and soil sampling activities to further investigate and address reportable releases of produced water and/or crude oil at the Site.

Additionallly, WPX has provided relevant information from a recent deferral request (Incident Number NRM2034258716), authored by WSP USA Inc. (WSP) and approved by New Mexico Oil Conservation Division (NMOCD) on January 13, 2022 for a release that overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the field summary and laboratory analytical data as it is applicable in the deferral request for Incident Number nAB1632647780. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.022210° N, 103.867013°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (Figure 1 in Appendix A).

NHMP1412241998

On March 18, 2014, a 4-inch PVC transfer line leaked and caused 200 barrels (bbls) of oil and produced water to be released and migrate southwest-west approximately 0.6 miles through the pasture. No fluids were able to be recovered immediately. WPX reported the release to the NMOCD via email and with a subsquent Corrective Action Form C-141 (Form C-141) dated March 29, 2014. The release was assigned Incident Number NHMP1412241998.

nAB1632647780

On November 5, 2016, a pump air locked and caused an oil tank to overfill and release approximately 70 bbls of crude oil into the earthen containment berm. No fluids escaped the earthern containment berm. Approximately 66 bbls of crude oil were recovered via vacuum truck. WPX reported the release to the NMOCD via email on November 6, 2016 and with a subsquent Form C-141 on November 17, 2016. The release was assigned Incident Number nAB1632647780.

nAB1712951426

On April 20, 2017, human error during equipment reconfiguration resulted in overpressurization of an aboveground poly line that released approximately 50 bbls of crude oil to the pasture north and west of the well pad location. Approximately 40 bbls of crude oil were recovered. WPX

Ross Draw Unit #011

Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426

nAB1728553778, nAB1728551205, nAPP2200728755

Remediation Work Plan Report

April 1, 2022



reported the release to the NMOCD via email on April 21, 2017 and with a subsquent Form C-141 on May 2, 2017. The release was assigned Incident Number nAB1712951426.

nAB1728553778 and nAB1728551205

On September 21, 2017 and September 30, 2017 it was discovered that a poly line had failed between 75 and 100 feet south of the well pad and resulted in an unknown volume of produced water to be released and migrate an estimated 600 yards southwest in the pasture. No fluids were able to be recovered immediately due to heavy rainfall but volumes appeared to exceed the reportable limit. WPX reported the releases to the NMOCD via email and with subsquent Form C-141s on October 5, 2017. Incident Numbers nAB1728553778 and nAB1728551205, respectively were assigned.

nAPP2200728755

On January 4, 2022, the dump malfunctioned on a separator, causing the release of approximately 24 bbls of produced water and 20 bbls of crude oil into a earthen berm secondary containment and immediate pasture. No fluids were able to be recovered immediately but the release area on pad was excavated to approximately 0.5 foot below ground surface (bgs) to address surface staining. WPX reported the release to the NMOCD via email on January 4, 2022 and with a subsquent Form C-141 January 10, 2022. The release was assigned Incident Number nAPP2200728755.

1.2 **Site Characterization**

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from 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 in Appendix A.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE on December 9, 2020, located approximately 0.40 miles southeast of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 106 feet bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided as **Appendix B.**

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 Hydrocarbon (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

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426

nAB1728553778, nAB1728551205, nAPP2200728755

Remediation Work Plan Report

April 1, 2022



A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.

Project Objective 1.3

The primary objectives of Ensolum's scope of services were to document soil characterization and delineation actions performed at the Site were completed in accordance with the applicable NMOCD regulatory RWP guidelines and to document those concentrations of constituents of concern (COCs) present in soil remaining on-Site required to be addressed.

2.0 SOIL SAMPLING AND INITIAL REMEDIAL ACTIONS

WPX conducted initial remediation activities for Incident Number nAPP2200728755 by excavating impacted soil on pad for off-Site disposal. WSP conducted soil sampling activities to verify the presence or absence of soil impacts associated with the subject releases.

2.1 **Delineation Activities**

nAP1712951426 and nAPP2200728755

On January 25, 2022 and Febraury 28, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH17): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 3 foot bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in Figure 2A in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (Appendix C). The soil samples were placed directly into a 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 procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation during delineation activities is included in Appendix D.

nAB1728553778 and nAB1728551205

On March 3, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH10): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 2 feet bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in Figure 2B in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



sampling logs (Appendix C). The soil samples were handled, collected and analyzed as previously described. Photographic documentation during delineation activities is included in Appendix D.

3.0 SOIL SAMPLING RESULTS

nAP1712951426 and nAPP2200728755

Laboratory analytical results for delineation soil samples BH03, BH04, BH10, BH13, BH16 and BH17 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH01, BH02, BH05 through BH09, BH11, BH12, BH14 and BH15 indicated COCs were within the applicable Closure Criteria and/or reclamation standard requirement.

nAB1728553778 and nAB1728551205

Laboratory analytical results for delineation soil samples BH01 through BH03 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH04 through BH10 indicated COCs were within the applicable reclamation standard requirement.

Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

4.0 DEFFERAL REQUEST

nAB1632647780

The Deferral Request for Incident Number NRM2034258716, authored by WSP, was approved by NMOCD on January 13, 2022 and overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the laboratory analytical data as it can be applicable for this release to provide vertical and lateral definition of the historical release. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

Based on the summary of the approved Deferral Request, the following findings and conclusions regarding the incident are presented:

- Based on laboratory analytical results of confirmation and delineation soil samples for Incident Number NRM2034258716, impacts associated with Incident Number nAB1632647780 were confirmed to have remained within the secondary containment, as documented on the Form C-141;
- Based on soil laboratory analytical results and extent of release area within the secondary
 earthen berm containment, an estimated 102 cubic yards was approved to be deferred
 until the Plugging and Abandonment or recontruction of the Site, whichever comes first.

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



Based on the findings and conclusions of this approved Deferral Report and review and applicability to historical Incident Number nAB1632647780, No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD using the previously collected data.

5.0 REMEDIATION WORK PLAN

Based on the results documented in this report, the following findings and conclusions regarding the releases are presented:

- Areas within the top four feet of the pasture contain impacted soil exceeding the reclamation standard; however, impacts exceeding Closure Criteria within the area of concerns for nAB1728551205, nAB1728553778 and nAB1712951426 and release extent for nAPP220728755 do not appear to exceed 4 feet bgs;
- Based on existing soil analytical results and mapped extent of the release areas, an
 estimated 6,840 cubic yards of impacted soil is anticipated to be remediated and/or
 removed from the Site for disposal in accordance with state and federal regulations. The
 current proposed excavation extent is depicted on Figure 4 in Appendix A;
- Based on laboratory analytical results for delineation samples from BH01, BH06, BH05, BH09, BH11 and BH12 (nAP1712951426 and nAPP2200728755), no remediation efforts are required in these areas. No areas on pad exceed the Closure Criteria for the Site.

Based on the conclusions presented above, the following remediation is proposed:

- Soil characterization and investigation is required to determine the lateral and vertical extent of impact associated with Incident Number NHMP1412241998. A proposed tract that aligns with details provided on the C-141 is provided on Figure 3 in Appendix A. Ensolum will conduct delineation activities to verify the presence or absence of soil impacts associated with this incident. Laboratory analytical results will be used to update additional cubic yards of soil to be remediated, if any;
- Horizontal delineation of all releases associated with nAB1728551205, nAB1728553778 and nAB1712951426 and nAPP220728755 will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts;
- Impacted soil will be excavated from the top four feet of the areas in the pasture containing soil exceeding the reclamation standard. Excavated soil will then be transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with Non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment cell for chloride extraction. Following review of the additional soil characterization at the Site, WPX will re-evaluate the proposed remedial options and submit a revised RWP detailing the option (b) treatment and sampling plan for NMOCD review, if selected.
- Surface scraping may be conducted to remove any minor surficial staining in areas that are delineated;

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



 Access for remediation or disturbance that occurs offsite requires BLM approval with additional coverage. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;

- There are areas off pad (ex. Right-of-Way) that will likely require third-party operator oversight and additional safety measures before or during remediation activities near their respective subsurface pipelines. WPX or the third party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative.
- Subsequent to the completion of remediation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

5.1 Proposed Sampling

WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 193 floor samples within the release extent, excluding sidewall samples. Due to the large extent of the impacted areas (38,500 square feet), Ensolum proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 1,000 square foot area for the floors and sidewalls of the excavation.

5.2 Proposed Schedule

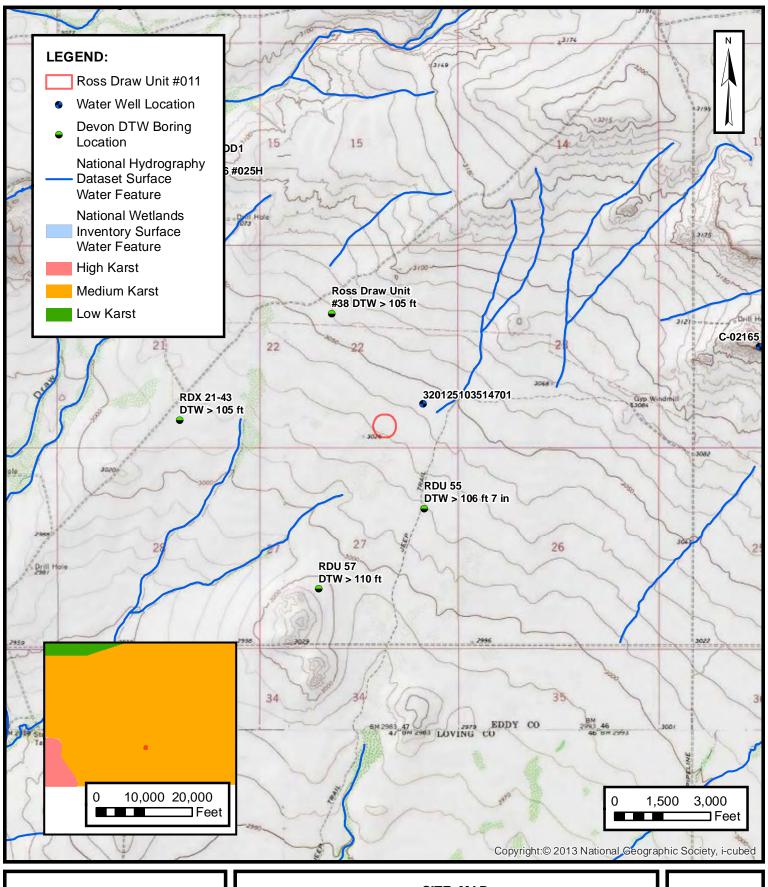
WPX believes the scope of work described above will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

Based on the extent of corrective measures, planning and potential third-party operator oversight at the Site, WPX anticipates beginning remediation by **January 2023**.



APPENDIX A

Figures





SITE MAP

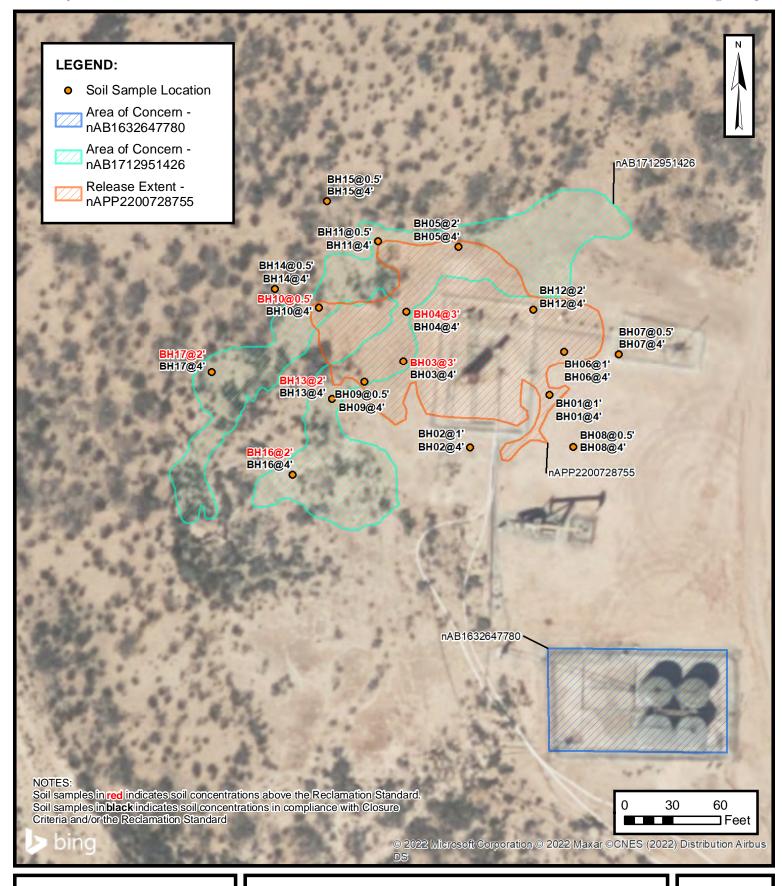
WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

1

Released to Imaging: 10/4/2022 11:58:47 AM





DELINEATION SOIL SAMPLE LOCATION MAP 2A

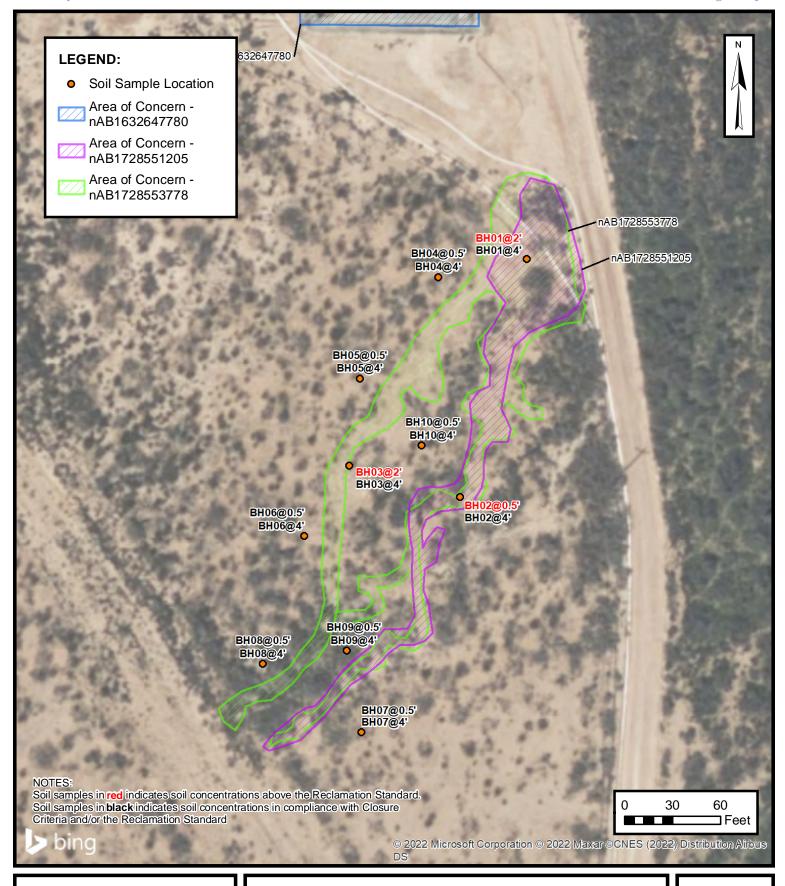
WPX ENERGY PERMIAN, LLC. **ROSS DRAW UNIT #011** Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE 2A

Released to Imaging: 10/4/2022 11:58:47 AM





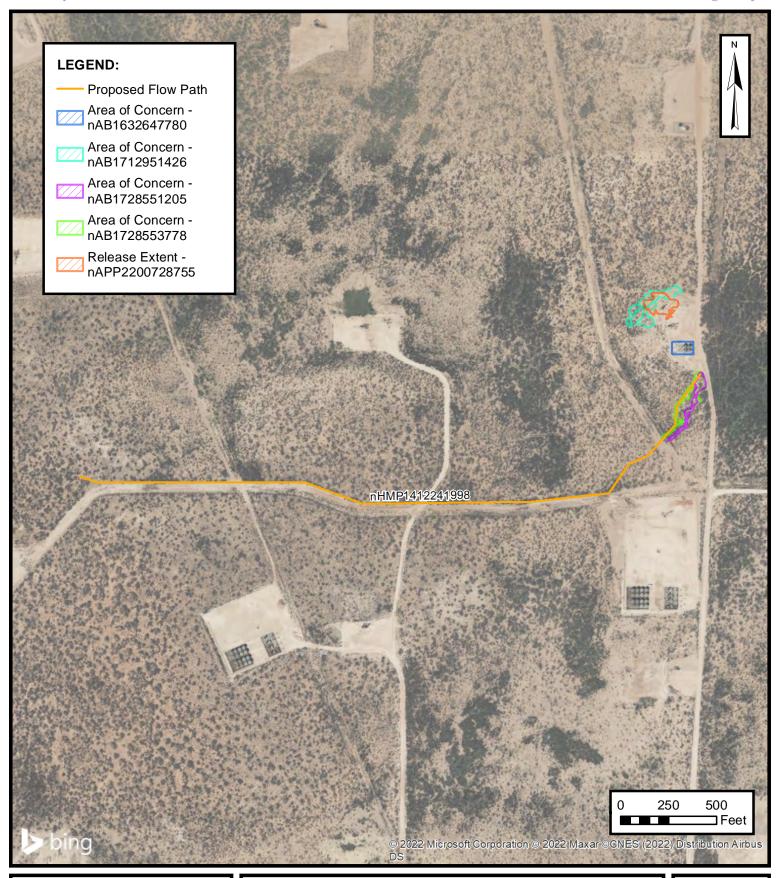
DELINEATION SOIL SAMPLE LOCATION MAP 2B

WPX ENERGY PERMIAN, LLC. **ROSS DRAW UNIT #011** Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE 2B





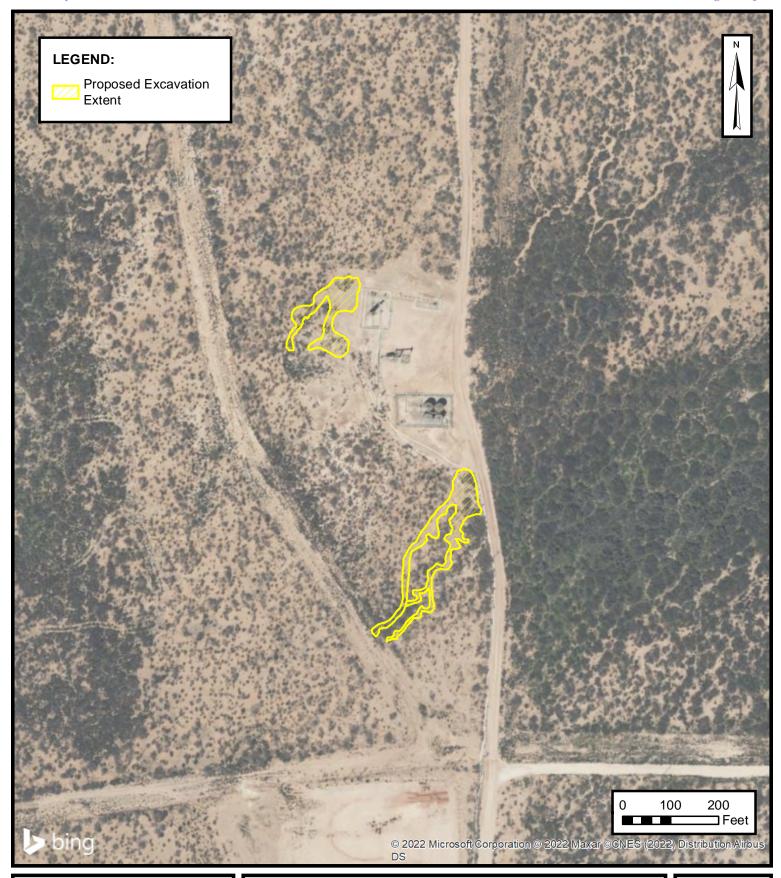
AREA OF CONCERN TRACT

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

3





PROPOSED EXCAVATION AREAS

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

4



APPENDIX B

Well Record

		HR	ı						MONITORING W	ELL COMPLETION	N DIAGR	RAM
COMPLIANCE								l Number:	W 1	Location: Ross Draw Unit #55		
		_	LUI		N C		MW-1 Date:			Client:		
	TM.	2 U	LUI	101	1 2			12/9	/2020	WPX Ene	ergy	
Drilling Me			Sampling I				Logged By:			Drilled By:		
	ir Rotar	У		No				J. Lii	nn, PG	Talon L	PE	
Gravel Pack	k Type: 0/20 San	ıd	Gravel Pac	k Depth Inte			Seal Type:	lone	Seal Depth Interval: None	Latitude: 32.0161	65	
Casing Typ		Diameter:		Depth Inter			Boring Tota	al Depth (ft. BC		Longitude:	03	
PVC		2-inch		0-101'7'				106		-103.863	346	
Screen Typ	e:	Slot:		Diameter:		interval:	Well Total	Depth (ft. BGS)			DTW Date:	
PVC	1	0.010-ir	ıch	2-inch	101'7"	- 106'7"		106	5'7"	>106' 7"	12/16/2	2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	We Comple	
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded minor silt	- - -	
20 25 30	NM	L	D	N	N	NM	SW	NS	_	ale tan orange well graded fine sand with minor medium and coarse sand		
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	_	poorly graded fine ninor gravel	-	
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		led fine sand with gravel	-	
90 95	NM	L	D	N	N	NM	SP	NS	Darker grey poorly graded fine sand with minor silt and minor medium sand			
100 106'7"	NM	M	D	N	N	NM	SC	NS	Dark grey fine sand with moderate silt and clay - TD 106'7"			



APPENDIX C

Lithologic Soil Sampling Logs

								<u> </u>			
								Sample Name: BH01	Date: 1-25-2022		
			N	5	OL		M	Site Name: Ross Draw Unit #0:			
				. / 6 5				Job Number: 03A1987006			
					AMPLING		Logged By: MR	Method: Hand Auger			
				3.866936°				Hole Diameter: 4"	Total Depth: 4'		
			_					PID for chloride and vapor, res factors included.	pectively. Chloride test		
Moisture Content	Moisture Content Chloride (ppm) Vapor (ppm) Sample ID Sample ID USCS/Rock Symbol					Lithologic Descriptions					
						<u> </u>	SP-SM	0-4', SAND, dry, dark bro silt, some staining, F	wn, poorly graded with I-C odor.		
М	1,260	1.6	Υ	BH01	1 _	_ _ _ 1		At 2', decrease in staing to decrease in odor to	to slight staining, o slight H-C ofor.		
М	816	0.9	Υ		- - 2	- - - 2		At 3', no staining, no odo	or.		
	010	0.3			 - -	 - - -					
М	1,020	0.2	N		3 _	- _ 3 - -					
М	1,176	0.1	N	BH01	4 <u>-</u> -	- - 4 -	TD	Total depth at 4' bgs.			
					- - -	- - -					
					- - - -	- - -					
						- - -					
					- - - -	- - - -					
					-	-					

								<u> </u>			
	10	_						Sample Name: BH02	Date: 1-25-2022		
			N	S	OL	U	M	Site Name: Ross Draw Unit #0			
								Incident (Valide): 10/11/2200720735 & 10/101712551420			
		LITUOL	2010	. / coll c	ANADLING	100		Job Number: 03A1987006			
Coord				3.867072°	AMPLING	Logged By: MR Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'				
						Strips and	PID for chloride and vapor, re	·			
								factors included.			
Moisture Content Chloride (ppm) Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol						Lithologic Descriptions					
					<u> </u>	<u> </u>	SP-SM	0-4', SAND, dry, dark bro silt, no staining, no	own, poorly graded with		
					_	-		Silt, no staining, no	ouoi.		
					-	-					
						- -					
M	<128	0.1	N	BH02	1	_ 1					
					_	- -					
					-	-					
N 4	<128	0.1	NI		2	2					
M	<128	0.1	N		_	_ 2					
					_	<u>-</u>					
					_	-					
М	<128	0	N		3	3					
171	\120	0	IN		3 _	_					
					_	_					
					_	- -					
М	<128	0.2	N	BH02	4	4	TD	Total depth at 4' bgs.			
		0.2		21102		-		Trotal depth at 1 ago.			
					=	=					
					_	- -					
					-	-					
					-	-					
					_	_					
					_	<u>-</u>					
					_	<u>-</u>					
]	-					
						 - -					
					-	F					
						-					
					-	-					
						- -					
					-	-					
					-	-					

							Sample Name: BH03	Date: 1-25-2022
4	-				100			•
		N	5	OL			Site Name: Ross Draw Unit #01	
							Incident Number: nAPP220072	8755 & nAB1712951426
	ITUOL	2010	160116	4 8 4 DU 1816		Job Number: 03A1987006	1	
				AWIPLING			Method: Hand Auger Total Depth: 4'	
				ith HACH Ch	Strine and		· · · · · · · · · · · · · · · · · · ·	
		_						bectively. Cilionae test
						~		
ide n)	o n	ing	e ID	Sample	Depth	3ocl ool		
ppr	/ар	ain	ηpl	-	-	SS/I	Lithologic D	Descriptions
5		St	Saı	(ft bgs)	(0-7	US(S		
					0	SP-SM	0-4', SAND, dry, dark bro	wn, poorly graded with
				-	-		silt, no staining, sligh	it odor.
				_	<u>-</u> -			
				=	_		At 3', no odor.	
<128	2.5	Υ		1 _	_ 1			
				-	-			
				_	_ -			
				_	_			
280	2.5	N		2	2			
				-	-			
				_	_			
				_	_			
1,544	1.1	N	BH03	3	3			
,-				_	-			
				-	=			
					<u>-</u>			
1.896	1.4	N	BH03	4	- 4	TD	Total depth at 4' bgs.	
_,					-			
				-	_			
					- -			
				-	-			
					<u> </u>			
				-	_			
					- -			
				-	-			
					<u> </u>			
				4	_			
				_	- _			
				7	-			
				-	<u> </u>			
				4	_			
				_	<u>-</u>			
				7	-			
1	ates: 32 nts: Field ed with (Laboration (L	etes: 32.022749 hts: Field screeni ed with 1:4 dilut ode ode 1,544 1.1	entes: 32.022749°, -10 Ints: Field screening co ed with 1:4 dilution for loade of the company of	etes: 32.022749°, -103.867186° Ints: Field screening conducted we ded with 1:4 dilution factor of soin and the second se	ates: 32.022749°, -103.867186° Ints: Field screening conducted with HACH Ched with 1:4 dilution factor of soil to distilled By (a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled be divided by a dilution factor of soil to distilled by a dilution factor	rits: Field screening conducted with HACH Chloride Test Seed with 1:4 dilution factor of soil to distilled water. No complete the death of the death	ates: 32.022749°, -103.867186° Ints: Field screening conducted with HACH Chloride Test Strips and ed with 1:4 dilution factor of soil to distilled water. No correction application of the property of the pr	ates: 32.022749°, -103.867186° Ints: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respect with 1:4 dilution factor of soil to distilled water. No correction factors included. Begin and Depth (ft bgs) Depth (ft bgs) Depth (ft bg

								<u> </u>		
	-	_						Sample Name: BH04	Date: 1-25-2022	
	-		N	S	OL		M	Site Name: Ross Draw Unit #0		
_								Incident Number: nAPP2200728755 & nAB1712951426		
								Job Number: 03A1987006	<u> </u>	
					AMPLING	LOG		Logged By: MR	Method: Hand Auger	
				3.867181°			Hole Diameter: 4"	Total Depth: 4'		
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	_	Descriptions	
					1	<u> </u>	SP-SM	0-4', SAND, dry, dark br silt, slight staining,	own, poorly graded with slight odor.	
					-	- -		At 2', no staining.		
М	180	27.6	Υ		1 -	_ 1 -		At 3', color change to lig	ght brown, no odor.	
М	1,260	9.9	N		2	- - 2		At 4' color change to da	rk brown.	
М	2,552	14.5	N	BH04	3 -	- - - 3 - -				
M	1,772	20.2	Z	BH04	4 -	- 4 - 4 	TD	Total depth at 4' bgs.		

								s I N 2005	D	
	35							Sample Name: BH05	Date: 1-25-2022	
			N	5	OL		M	Site Name: Ross Draw Unit #011	VEE 0 - A D 1 7 1 2 0 E 1 4 2 C	
_								Incident Number: nAPP2200728755 & nAB1712951426		
		ITUO:	20:1	. /	`A B 4 D' 12' C	100		Job Number: 03A1987006		
					AMPLING		Logged By: MR	Method: Hand Auger		
				3.867092°				Hole Diameter: 4"	Total Depth: 4'	
								PID for chloride and vapor, respectators included.	ctively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	·	
					1	0	SP-SM	0-4', SAND, dry, dark brown silt, no staining, no odd	n, poorly graded with or.	
					-	-		At 2', color change to light	brown.	
М	152	0.1	N	BH05	1 _	_ 1				
					-	-				
					<u>-</u>	-				
М	<128	0.1	N		2	2				
					-	-				
М	<128	0.1	N		3	- - 3				
101	1120	0.1	.,			-				
					<u>-</u>	- -				
М	<128	0.1	N	BH05	4	4	TD	Total depth at 4' bgs.		
					-					
					_	-				
					-	-				
					-	-				
					-	-				
					_	<u>-</u> -				
					-	<u>-</u>				
					-	- -				
					-	<u>-</u>				
					_					

									1	
	200	_			_			Sample Name: BH06	Date: 1-25-2022	
	5		N	S	OL		M	Site Name: Ross Draw Unit #0		
L								Incident Number: nAPP2200728755 & nAB1712951426		
								Job Number: 03A1987006		
				-	AMPLING	LOG		Logged By: MR	Method: Hand Auger	
				3.866911°			Hole Diameter: 4"	Total Depth: 4'		
					PID for chloride and vapor, refactors included.	espectively. Chloride test				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions	
						L 0 -	SP-SM	0-4', SAND, dry, dark br silt, no staining, no	own, poorly graded with odor.	
М	488	0.1	Ν	вн06	1 - - -	- - - 1 - -		At 3', color change to lig	ght brown.	
М	444	0	N		2	2				
М	444	0.9	N		3 _	- _ 3 - -				
M	356	0.4	Z	BH06	4	- 4 	TD	Total depth at 4' bgs.		

0								Sample Name: BH07	Date: 2-18-2022			
			N	S	OL		M	Site Name: Ross Draw Unit #				
								Incident Number: nAPP2200728755 & nAB1712951426				
								Job Number: 03A1987006				
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger			
				.03.866818				Hole Diameter: 4"	Total Depth: 4'			
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	_	c Descriptions			
D	588	0.1	Ν	BH07	0.5	<u> </u>	CCHE	0-1',CALICHE, dry, light very fine-fine grain	brown-brown, well graded, n, no stain, no odor.			
D	<128	0.7	N		1 - -	- - 1 -	SP-SM	1-3',SAND, dry, brown, very fine-fine grair	poorly graded with silt, n, no stain, no odor.			
D	<128	0.2	N		2	- 2 3	ССНЕ	3-4',CALICHE, dry, light	brown-brown, well graded,			
D	444	0.2	N	вно7	- - - - 4	- - - - - 4	TD	very fine-medium Total depth at 4' bgs.	grain, no stain, no odor.			
					·			Total depth at T MgS.				

								Cample Name: BHO9	Dato: 2 19 2022	
					•			Sample Name: BH08 Site Name: Ross Draw Unit #01	Date: 2-18-2022	
ш	-		N	S	OL	_ U	M	Incident Number: nAPP220072		
_	10							Job Number: 03A1987006	20/33 & HAB1/12931420	
		LITUOL	001	. /	CANADLING	100			Made adultand Average	
Coord					SAMPLING	LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'	
				3.866896°	:+b !!^C!! Cb	trine and	Hole Diameter: 4" PID for chloride and vapor, resp	· ·		
						factors included.	sectively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	444	0.1	N	BH08	0.5 <u>-</u>	<u> </u>	CCHE	0-1',CALICHE, dry, light b very fine-fine grain,	rown-brown, well graded, no stain, no odor.	
D	152	0.1	Ν		1 _	- - - 1 -	SP-SM	1-3',SAND, dry, brown, p very fine-fine grain,	oorly graded with silt, no stain, no odor.	
D	<128	0.1	N		2 <u>-</u> - -	2 				
					- - - - -	- - - - - -				
D	<128	0.1	Z	BH08	4	- 4 	TD	Total depth at 4' bgs.		

								Sample Name: BH09	Date: 2-18-2022		
					•			Site Name: Ross Draw Unit #011	Date. 2-16-2022		
	70		N	5	OL		M	Incident Number: nAPP22007287	55 8. nAD1717051476		
_								Job Number: 03A1987006			
		LITUO	0014	· / • • • •	SAMPLING	106			Mothod, Hand Average		
Coord				3.867253°	PAIVIPLING	LUG		Logged By: GM Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'		
					ith HACH Ch	Jorida Tost 9			·		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	·		
D	444	0.5	Ν	BH09	0.5 <u> </u>	0	SP-SM	0-4',SAND, dry, brown, poo very fine-fine grain, no	rly graded with silt, stain, no odor.		
					-	<u>-</u> -					
D	820	0.9	N		1 _	1					
					-	-					
	4 250				-						
D	1,360	0.8	N		2 _	2					
						- -					
					<u>-</u>	_ 3		At 3', color change to light b	orown-brown.		
					<u>-</u>	-					
D	756	1.8	N	BH09	4	4	TD	Total depth at 4' bgs.			
D	/50	1.8	IN	впоэ	4 _	- 4	טו	Total depth at 4 bgs.			
					-	-					
					<u> </u>	- -					
					-	- -					
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					<u> </u>	_ -					
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					_						

								Sample Name: BH10	Date: 2-18-2022
								Site Name: Ross Draw Unit #011	5446. 2 20 2022
			N	5	U	U	V	Incident Number: nAPP22007287	55 & nAB1712951426
_	77							Job Number: 03A1987006	33 & III BI/ 12331720
	-	ITHOL)GI	` / SOII S	AMPLING	ille			
Coord				3.867331°		100		Logged By: GM Hole Diameter: 4"	Total Depth: 4'
						olorida Tast (Strine and	PID for chloride and vapor, respec	
			_					factors included.	ctively. Cilionae test
•									
Moisture Content	de (t	r (-	ng	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content	Chloride (ppm)	Vapor (ppm)	Staining	eldι	Depth		SCS/Roc Symbol	Lithologic Des	scriptions
Mo Co	Ch (p	> G	Sta	San	(ft bgs)	(ft bgs)	JSC Sy		
					1	0	SP	0-1',SAND, dry, brown, poo	rly graded
D	280	0.5	N	BH10	0.5	ľ	31	very fine-fine grain, no	stain, no odor.
					_	 -			
					-	-			
	.4.20	0.0					CD CNA	4 OL CAND de la distributa	
D	<128	0.9	N		1 _	1	SP-SIVI	1-3', SAND, dry, reddish bro	own-brown, poorly ine-fine grain, no stain,
					_			no odor.	me mie gram, no stam,
					-	-			
					_	<u> </u>			
D	2,224	0.8	N		2	2			
					-	 -			
					-	 			
					_				
					-	3	SM	3-4', SILTY SAND, dry, tan-li	aht brown fino
					_	_ 3	SIVI	medium grain, no stail	n, no odor.
					_	L			
					-	-			
					_	_			
D	11,016	1.8	N	BH10	4 _	4	TD	Total depth at 4' bgs.	
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								Camanda Namasa DU144	Data: 2 10 2022			
								Sample Name: BH11	Date: 2-18-2022			
	1		N	5	OI	U	M	Site Name: Ross Draw Unit #011 Incident Number: nAPP2200728755 & nAB1712951426				
_												
		LITUO:	2010	. /	ANADLING	. 100		Job Number: 03A1987006				
					AMPLING		Logged By: GM	Method: Hand Auger Total Depth: 4'				
				3.867229°		1 .1	~	Hole Diameter: 4"	· ·			
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions			
D	<128	2.2	Ν	BH11	0.5 <u>-</u>	0	SP	0-3', SAND, dry, brown, very fine-fine grain	poorly graded, , no stain, no odor.			
D	<128	4.3	Ν		1 1 -	- - - -						
D	120	2.3	Ν		2 -	2						
					-	3	ССНЕ	3-4', CALICHE, dry, tan, v medium grain, no s				
D	2,188	4.3	N	BH11	4	4	TD	Total depth at 4' bgs.				

								C N DUA	D
					•	-		Sample Name: BH12	Date: 2-28-2022
ш			N	S	OL	_ U	M	Site Name: Ross Draw Unit #0:	
								Incident Number: nAPP220072	28/55 & nAB1/12951426
								Job Number: 03A1987006	<u> </u>
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866964°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, res factors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	_	Descriptions
D	1,556	0.3	N		0.5 <u>-</u>	0 -	SW-SM	0-1', SAND, dry, brown, v very fine-fine grain,	well graded with silt, no stain, no odor.
D	1,780	0.4	N		1 -	_ _ 1 -	SP-SM	1-4', SAND, dry, brown, pown,	poorly graded with silt, no stain, no odor.
D	2,200	0.9	N	BH12	2	- _ 2 -			
					- - - - -	- - - - - -			
D	1,556	0.3	Z	BH12	4 -	- 4 	TD	Total depth at 4' bgs.	

_									
	250	_			_			Sample Name: BH13	Date: 2-28-2022
			N	5	OL		M	Site Name: Ross Draw Unit #01	
			- 10					Incident Number: nAPP220072	28/55 & nAB1712951426
		IT. C.	00:-	160:: 5		100		Job Number: 03A1987006	
					AMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.867308°		de de Terre	Charles and a	Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, resplactors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions
D	142	N/A	Ν		0.5	<u> </u>	SP	0-2', SAND, dry, brown, p fine-fine grain, organ	ooorly graded, very nics, no stain, no odor.
					- - -	- -		Note: PID not calibrating. chlorides.	. Only screening for
D	1,360	N/A	N		1 _	_ 1		At 1', some silt.	
D	2,840	N/A	N	BH13	2	- - 2 -	SW-SM	2-3', SAND, dry, brown, v very fine- fine grain,	
					- - - -	3 - - -	CCHE	3-4', CALICHE, dry, light b fine-fine grain, no st	orown, well graded, very tain, no odor.
D	4,884	N/A	Z	BH13	4	4	TD	Total depth at 4' bgs.	

								C N DU44	D
								Sample Name: BH14	Date: 2-28-2022
	10		N	S	OL	. U	M	Site Name: Ross Draw Unit #0 Incident Number: nAPP22007	
							175	Job Number: 03A1987006	20133 & IIABI1/1233142b
		ITHOL)GIC	· / SOIL S	AMPLING	ine		Logged By: GM	Method: Hand Auger
Coord				3.867406°				Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, res	· ·
			_				•	factors included.	.,,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
D	360	N/A	N	BH14	0.5	0	SP	0-4', SAND, dry, brown, I	poorly graded, very nics, no stain, no odor.
D	<120	N/A	N	BIII4	1 _	- - - 1 -		NOTE: PID not calibrating chlorides.	
D	<120	N/A	N		2 -	- 2 - 2 3			
D	120	N/A	N	BH14	- - - 4	- - - - - 4	TD	At 4', some silt. Total depth at 4' bgs.	
	120		14	DIII		† 	טו	Total acptil at # Dg3.	

								S 1 N BUAS	D
	200							Sample Name: BH15	Date: 2-28-2022
			N	S	OL	U	M	Site Name: Ross Draw Unit #0 Incident Number: nAPP22007	
								Job Number: 03A1987006	20133 & HAB1/1233142b
		LITHOL	2616	. /	AMPLING	106			Nachbard, Hand Avenu
Coord				3.867317°		LOG		Logged By: GM Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'
						Jorida Tast 9	Strine and	PID for chloride and vapor, re	·
			_					factors included.	spectively. Cinoriae test
Moisture Content	Content Chloride Chlo							Lithologic	Descriptions
,	-1120	N1 / A	N	DUIAE		0	SP	0-3', SAND, dry, brown,	poorly graded, very
D D	<120	N/A N/A	Z Z	BH15	0.5 _ - - - 1 _	- - - - 1		NOTE: PID not calibratin chlorides.	anics, no stain, no odor.
D	<120	N/A	Z		2 -	2		3-4', SAND, dry, light bro fine-fine grain, no s	own, well graded, very tain, no odor.
D	<120	N/A	Z	BH15	4 -	- 4 	TD	Total depth at 4' bgs.	

								<u> </u>	I
								Sample Name: BH16	Date: 2-28-2022
		E	N	S	OL		M	Site Name: Ross Draw Unit #01	
	2							Incident Number: nAPP220072	8/55 & NAB1/12951426
		UTUOL	2010	. / COIL C	ANADLING	100		Job Number: 03A1987006	land the table
C				3.867375°	AMPLING	LUG		Logged By: GM Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'
						Jorida Tast (Ctrine and	PID for chloride and vapor, resp	· ·
			_					factors included.	dectively. Cilionae test
				_					
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chlorid (ppm)	Vapor (ppm)	ain	ldμ	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic D	escriptions
ğΰ	رح 	> =	St	Sar	(ft bgs)	(10 283)	USC S		
					<u> </u>	0	SP	0-3', SAND, dry, brown, p	oorly graded, very
D	<120	N/A	N		0.5	-		fine-fine grain, organ	ics, no stain, no odor.
					_	_			
					_	–			
D	1,360	N/A	N		1 -	_ 1		NOTE: PID not calibrating	. Only screening for
	Ý	•			_	-		chlorides.	
					_	_			
					_	- -			
D	1,556	N/A	N	BH16	2	. 2			
	1,550	IN/A	14	DITTO					
					_	_			
					_	=			
						- ,	CVA/ CNA	2 Al CANID dure tous limbt	المناف المصام المنت متنتمسما
					_	3	SVV-SIVI	3-4', SAND, dry, tan-light silt, very fine-fine gra	nin, no stain, no odor.
					_	- -		, , , , , , , , , , , , , , , , , , , ,	, ,
					_	= =			
					_	-			
D	3,076	N/A	N	BH16	4 _	- 4	TD	Total depth at 4' bgs.	
					_	- -			
					-	-			
					_	<u> </u>			
					_	<u>-</u>			
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								C N DU47	D
	-							Sample Name: BH17	Date: 2-28-2022
			N	5	OL		M	Site Name: Ross Draw Unit #0: Incident Number: nAPP220072	
									28/55 & NAB1/12951426
		LITHOL	OGIO	. /	AMPLING	106		Job Number: 03A1987006	Nathad Hand Avenu
Coord				3.867514°		LUG		Logged By: GM Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'
						Jorida Tast	Strine and	PID for chloride and vapor, res	·
			_					factors included.	pectively. Cilionae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
D	<120	N/A	N		0.5	L 0	SP	0-3', SAND, dry, brown, p	ooorly graded, very nics, no stain, no odor.
	120	14//	.,		0.5	- -		inic inic grant, orga	ines, no stain, no odor.
					=	=		At 1', no organics.	
,	4430	N1 / A	N						- Only one-series Co.
D	<120	N/A	N		1 _	_ 1		NOTE: PID not calibrating chlorides.	g. Only screening for
					_	_			
					-	-			
6	000	NI/A	N.	D1147	_				
D	888	N/A	N	BH17	2	_ 2			
					_	- -			
					-	=			
					_	-	6147 68 4		
					_	_ 3	SW-SM	3-4', SAND, dry, light bro silt, very fine-fine gr	wn, well graded with ain, no odor.
					_	- -		one, rec, mie mie A	a, ota, o a
					-	=			
_						-			
D	6,160	N/A	N	BH17	4 _	- 4	TD	Total depth at 4' bgs.	
					_	- -			
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_	200							Sample Name: BH01	Date: 3-3-2022
			N	S	OL		M	Site Name: Ross Draw Unit #011	
_							a bed	Incident Number: nAB17285512	205 & nAB1728553778
								Job Number: 03A1987006	
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866550°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, respendence included.	ectively. Chloride test
perior	med witi	1 1.4 unu		301 01 301	i to distilled	water. No co	ı	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	•
D	6,160	1.5	Ν		0.5	0	SP	0-1',SAND, dry, brown, po very fine-fine grain, r	orly graded,
	0,100	1.5			0.5	_		very fine fine grain, i	io stain, no odor.
					-	=			
_						- 			
D	6,160	1	N		1 _	_ 1	SP-SM	1-4',SAND, dry, brown, po very fine-fine grain, r	orly graded with silt,
					_	- -		, д , .	,
					-	-			
	6.664		.	51104	_	-			
D	6,664	0.8	N	BH01	2	2			
						- -			
					-	-			
					_	- 			
					_	_ 3			
					-	_			
					-	-			
						= 			
D	7,824	1.1	N	BH01	4 _	_ 4	TD	Total depth at 4' bgs.	
					_	- -			
					-	-			
					_	_			
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								T	
0	300							Sample Name: BH02	Date: 3-3-2022
	2		N	S	OL		M	Site Name: Ross Draw Unit #	
								Incident Number: nAB17285	551205 & nAB1728553778
	-							Job Number: 03A1987006	
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866665°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D 3	3,076	0.4	N	BH02	0.5 <u> </u>	- - -	SP	0-1',SAND, dry, brown, very fine-fine grai	poorly graded, n, no stain, no odor.
D 1	1,664	0.4	N		1 -	- - - 1 -	SP-SM	1-4',SAND, dry, brown, very fine-fine grai	poorly graded with silt, n, no stain, no odor.
D 1	1,452	0.5	N		2 - - -	- - 2 -			
					- - - - -	- - 3 - -			
D S	9,244	0.6	N	BH02	4	4	TD	Total depth at 4' bgs.	

								Sample Name: BH03	Date: 3-3-2022
		-						Site Name: Ross Draw Unit #011	5410.00 2022
			N	3	OL	. U	IV	Incident Number: nAB1728551205	5 & nAB1728553778
								Job Number: 03A1987006	
		LITHOL	OGIO	C/SOILS	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				03.866854				Hole Diameter: 4"	Total Depth: 4'
II——						loride Test S	Strips and	PID for chloride and vapor, respect	
								actors included.	,
							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	ain	ηp	Depth	(ft bgs)	CS/ yml	Lithologic Des	scriptions
ΣŬ	C)		St	Sai	(ft bgs)	(0-7	US(S		
						0	SP	0-1',SAND, dry, brown, poo	rly graded,
D	<120	0.4	N		0.5	-		very fine-fine grain, no	stain, no odor.
					-	_			
						_			
D	252	0.3	N		1 -	- ₁	SP-SM	1-2',SAND, dry, brown, poo	rly graded with silt,
					_	-		very fine-fine grain, no	stain, no odor.
					-	_			
					_	- -			
D	1,556	0.3	N	BH03	2	- 2	S/V/-SV/I	2-4',SAND, dry, brown, well	graded with silt
	1,550	0.5	1	DI 103		_	300-3101	very fine-fine grain, no	stain, no odor.
					_	_			
					-	-			
					_	-			
					-	_ 3			
					_	<u> </u>			
					-	-			
					=	<u> </u>			
D	7,216	0.9	Ν	BH03	4	4	TD	Total depth at 4' bgs.	
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					_	-			
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li .									
-								Sample Name: BH05	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #03	
								Incident Number: nAB1728552	1205 & nAB1728553778
	·							Job Number: 03A1987006	•
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866836°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, res	pectively. Chloride test
perfor	med with	n 1:4 dilu	tion fa	actor of soi	i to distilled	water. No co	orrection i	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
D	<120	2.6	N	BH05	0.5	0	SP	0-4',SAND, dry, brown, p very fine-fine grain,	oorly graded,
ט	<120	2.6	N	RH02	0.5	- -		very fine-fine grain,	no stain, no odor.
					-	- -			
D	<120	4	N		1 -	- 1			
					_	-			
					_	_			
					_	_			
D	<120	3.6	N		2	_ 2			
					-	-			
					_	-			
					_	_			
					- 1	_ 3			
					-	-			
						-			
					_	_			
D	<120	4.3	Ν	BH05	4	4	TD	Total depth at 4' bgs.	
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12								Sample Name: BH06	Date: 3-3-2022
		-						Site Name: Ross Draw Unit #011	2440.0022
		-	N	3	OL	_ U	IV	Incident Number: nAB1728551205	5 & nAB1728553778
								Job Number: 03A1987006	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.866931°				Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, respect	·
								factors included.	,
				-			~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content	Chlorid (ppm)	Vapor (ppm)	ain	mpl	Depth	(ft bgs)	CS/ yml	Lithologic Des	scriptions
ΣÖ	Cł		St	Saı	(ft bgs)	, ,	USO		
						0	SP	0-4',SAND, dry, brown, poor	rly graded,
D	144	0.7	N	BH06	0.5	-		very fine-fine grain, no	stain, no odor.
					_	 -			
					-	-			
D	<120	0.8	N		1 _	_ 1			
						-			
					_	-			
					_	_			
D	<120	1.7	N		2	2			
		,				<u> </u>			
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	400			51106	_	ļ.,			
D	<120	2.9	N	BH06	4 _	- 4	TD	Total depth at 4' bgs.	
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					-	F			
					-	_			
					=	-			

0	800							Sample Name: BH07	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #01	
								Incident Number: nAB1728551	.205 & nAB1728553778
								Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866833°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, respractors included.	pectively. Chloride test
perior	med witi	11:4 0110	LION I	actor or sor	i to distilled	water. No co	orrection i	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic I	Descriptions
					<u> </u>	0		0-4',SAND, dry, brown, p	oorly graded,
D	<120	1.8	N	BH07	0.5	-		very fine-fine grain,	no stain, no odor.
					_	_			
						_			
D	<120	1.9	Ν		1 _	1			
					-	-			
					T .	-			
					_	_			
D	<120	2.1	Ν		2	_ 2			
					-	-			
						-			
					_	_			
					-	_ 3			
					-	-			
					_	- -			
					-	_			
D	120	2.3	Ν	BH07	4	4	TD	Total depth at 4' bgs.	
					-	-			
						- -			
					-	_			
						-			
					-	-			
						- -			
					-	_			
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									Г
	57							Sample Name: BH08	Date: 3-3-2022
			N	S	OL		M	Site Name: Ross Draw Unit #0	
								Incident Number: nAB172855	1205 & nAB1728553778
<u> </u>				_ ,				Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.867002°		and First	Sandar	Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, res factors included.	pectively. Chioride test
PC1101	ca witi	. 1 and		2000 01 301	to distinct			actors moraded.	
ure int	Chloride (ppm)	ا د (-	ng	Sample ID	Sample	Depth	USCS/Rock Symbol		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	ıplε	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic	Descriptions
ω C	ch (F	> 3	St	San	(ft bgs)	(It bgs)	JSC		
					I	0	SP	0-4',SAND, dry, brown, p	oorly graded.
D	<120	1.3	Ν	BH08	0.5	<u> </u>		very fine-fine grain,	no stain, no odor.
					_	-			
					<u>-</u>	-			
D	<120	1.4	N		1 -	- 1			
			'		- -	<u> </u>			
					_	-			
					<u>-</u>	-			
D	<120	1.9	N		2 -	_ 2			
	`120	1.5	. 4			-			
					<u>-</u>	-			
					<u>-</u>	<u>-</u>			
					_	_ 			
					-	- 3			
					_	<u> </u>			
					<u>-</u>	_			
D	<120	3.6	N	BH08	4	- - 4	TD	Total depth at 4' bgs.	
0	\12U	3.0	IN	рпυδ	- 4	- "	טו	i otai ueptii at 4 DgS.	
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li .									
0								Sample Name: BH09	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #01	
								Incident Number: nAB1728551	1205 & nAB1728553778
	·							Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866859°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, respractors included.	pectively. Chloride test
perior	mea witi	11:4 0110	LION I	actor or sor	i to distilled	water. No co	orrection i	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
D	<120	1.1	Ν	BH09	0.5	0	SP	0-4',SAND, dry, brown, p very fine-fine grain,	oorly graded,
	\120	1.1	IN	ы 103	0.5	-		very inte-fine grain,	no stain, no odor.
					-	-			
						- -			
D	<120	1.5	N		1 _	_ 1			
						-			
					-	-			
						- 			
D	<120	1.7	N		2	_ 2			
					-	-			
					-	=			
					-	_			
					_	3			
					-	-			
					-	-			
						- -			
D	168	1	N	BH09	4	4	TD	Total depth at 4' bgs.	
					_	-			
]	-			
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					7	-			
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						<u>-</u>			

								Cample Name: BUILO	Date: 3-3-2022
								Sample Name: BH10 Site Name: Ross Draw Unit #0	
	-		N	S	OL	U	M	Incident Number: nAB172855	
								Job Number: 03A1987006	1203 & HAB1728333778
		LITHOL	061	- / sou s	SAMPLING	.106			Mathada Hand Avenu
Coord				3.866730°	AIVIPLING	LOG		Logged By: GM Hole Diameter: 4"	Method: Hand Auger Total Depth: 4'
					ith HACH Ch	Jarida Tast 9	tring and	PID for chloride and vapor, res	· ·
								factors included.	pectively. Chioride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	-	Descriptions
D	<120	1.7	N	BH10	0.5 <u>-</u>	<u> </u>	SP	0-4',SAND, dry, brown, p very fine-fine grain,	poorly graded, , no stain, no odor.
D	<120	3.2	Ν		1 _	- - - 1 -			
D	<120	3.2	N		2 <u>-</u> - -	- - 2 -			
					- - - - -	3			
D	<120	4.2	N	BH10	4 -	4	TD	Total depth at 4' bgs.	



APPENDIX D

Photographic Log

ENSOLUM

Photographic Log

WPX Energy Permian, LLC.
Ross Draw Unit #011 - Project Location
Ensolum Job Number: 03A1987006





Photograph 1

Date: January 25, 2022

Description: View of the Site during delineation activities

Photograph 2

Date: January 25, 2022

Description: View of the Site during delineation activities



Photograph 3

Date: February 28, 2022

Description: View of the Site during delineation



Photograph 4
Date: March 3, 2022
Description: View of the Site during delineation activities



APPENDIX E

Tables



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delinea	tion Soil Sample An	alytical Results				
				Incident Num	ber: nAB1712951426	and nAPP22072875	5			
BH01	1/25/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,490
BH01	1/25/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,320
BH02	1/25/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	15.7
BH02	1/25/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	11.2
BH03	1/25/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,570*
BH03	1/25/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,420
BH04	1/25/2022	3	<0.00202	<0.00403	<49.9	68.8	<49.9	68.8	68.8	3,320*
BH04	1/25/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,610
BH05	1/25/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	134
BH05	1/25/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	35.6
BH06	1/25/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	601
BH06	1/25/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH07	2/18/2022	0.5	<0.00199	<0.00398	<50.0	81.7	<50.0	81.7	81.7	582
BH07	2/18/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	510
BH08	2/18/2022	0.5	<0.00200	<0.00399	<50.0	108	<50.0	108	108	492
BH08	2/18/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
BH09	2/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	365
BH09	2/18/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	347
BH10	2/18/2022	0.5	<0.00200	<0.00399	<250	1,660	<250	1,660	1,660	906*
BH10	2/18/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18,000
BH11	2/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	135
BH11	2/18/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,220
BH12	2/28/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,610
BH12	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,360
BH13	2/28/2022	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,430*
BH13	2/28/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,260

Ensolum

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH14	2/28/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH14	2/28/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	115
BH15	2/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	77.5
BH15	2/28/2022	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	21.4
BH16	2/28/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,940*
BH16	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,650
BH17	2/28/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,090*
BH17	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,280
				Incident Num	ber: nAB1728551205	and nAB1728553778	8			
BH01	3/3/2022	2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,700*
BH01	3/3/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	9,220
BH02	3/3/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,300*
BH02	3/3/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,350
BH03	3/3/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,310*
BH03	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH04	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	45.3
BH04	3/3/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.1
BH05	3/3/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	5.80
BH05	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH06	3/3/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
BH06	3/3/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	63.4
BH07	3/3/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.01
BH07	3/3/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	130
BH08	3/3/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.90
BH08	3/3/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	57.1

Ensolum

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 0	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH09	3/3/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	10.4
BH09	3/3/2022	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	174
BH10	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	5.95
BH10	3/3/2022	4	<0.00199	<0.00398	<50.0	70.6	<50.0	70.6	70.6	34.6

Notes:

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

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or reclamation requirement for Soils

Impacted by a Release

* - indicates top 4 feet in the pasture area impacted by the release, NMAC 19.15.29.13. D (1)

that will be reclaimed following remediation.



APPENDIX F

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: 890-1876-1

Laboratory Sample Delivery Group: Eddy

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 2/3/2022 12:01:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....Links

Review your project results through

Have a Question?



www.eurofinsus.com/Env

Visit us at:

Released to Imaging: 10/4/2022 11:58:47 AM

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

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

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Client: WSP USA Inc.
Project/Site: RDU 11

Laboratory Job ID: 890-1876-1 SDG: Eddy

Table of Contents

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QC Sample Results	16
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	32

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
0.4	

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation	These commonly	y used abbreviations may	y or may not be	present in this report.
Appleviation	These commonly	y useu abbievialions ma	y or illay hot be	present in this report.

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

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

Duplicate Error Ratio (normalized absolute difference) **DER**

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Job ID: 890-1876-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1876-1

Receipt

The samples were received on 1/26/2022 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH05 (890-1876-9), BH05 (890-1876-10), BH06 (890-1876-11), (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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114

Matrix: Solid

Lab Sample ID: 890-1876-1

Lab Sample ID: 890-1876-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11 SDG: Eddy

Client Sample ID: BH01

Date Collected: 01/25/22 09:10 Date Received: 01/26/22 16:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Toluene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			01/28/22 12:00	01/28/22 14:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 14:28	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 11:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 11:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 11:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			01/31/22 11:10	02/01/22 11:34	
1-Officioccaric	0,		70-700			• • == • •		·=

Client Sample ID: BH01

Date Collected: 01/25/22 09:24 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/28/22 12:00	01/28/22 14:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 14:48	1

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH01

Lab Sample ID: 890-1876-2 Date Collected: 01/25/22 09:24

Matrix: Solid

Date Received: 01/26/22 16:08 Sample Depth: 4

Client: WSP USA Inc.

Project/Site: RDU 11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Ran	ige Organic	s (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel Ra	•		• •	Unit	D	Bronored	Analyzad	Dil Ess
	•	ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	• •	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 01/31/22 11:10		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL		<u>D</u>			Dil Fac
Analyte	Result	Qualifier U	RL		<u>D</u>		02/01/22 11:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u>D</u>	01/31/22 11:10	02/01/22 11:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u> </u>	01/31/22 11:10	02/01/22 11:56 02/01/22 11:56	Dil Fac 1 1

Client Sample ID: BH02 Lab Sample ID: 890-1876-3

70 - 130

70 - 130

81

92

Matrix: Solid

01/31/22 11:10 02/01/22 11:56

01/31/22 11:10 02/01/22 11:56

Date Collected: 01/25/22 09:32 Date Received: 01/26/22 16:08

Sample Depth: 1

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Toluene	< 0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
m-Xylene & p-Xylene	< 0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
o-Xylene	< 0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 16:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/28/22 12:00	01/28/22 16:12	1
Method: Total BTEX - Total B' Analyte Total BTEX	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 02/02/22 16:52	Dil Fac
Analyte Total BTEX	Result <0.00404	Qualifier U	0.00404	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/02/22 16:52	
	Result <0.00404	Qualifier U	0.00404		<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rai	Result <0.00404	Qualifier U s (DRO) (Qualifier	0.00404 GC)	mg/Kg	=	<u> </u>	02/02/22 16:52	1
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH	Result <0.00404 nge Organic Result <50.0	Qualifier U s (DRO) (O Qualifier U	0.00404 GC) RL 50.0	mg/Kg	=	<u> </u>	02/02/22 16:52 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00404 nge Organic Result <50.0 ange Organ	Qualifier U s (DRO) (O Qualifier U	0.00404 GC) RL 50.0	mg/Kg	=	<u> </u>	02/02/22 16:52 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00404 nge Organic Result <50.0 ange Organ	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	0.00404 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared	02/02/22 16:52 Analyzed 01/31/22 13:14	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte	Result <0.00404 nge Organic Result <50.0 ange Organ Result	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier U	0.00404 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u></u> <u></u>	Prepared Prepared	02/02/22 16:52 Analyzed 01/31/22 13:14 Analyzed	Dil Fac

Job ID: 890-1876-1

SDG: Eddy

Matrix: Solid

Lab Sample ID: 890-1876-3

Client Sample ID: BH02

Date Collected: 01/25/22 09:32 Date Received: 01/26/22 16:08

Sample Depth: 1

Client: WSP USA Inc.

Project/Site: RDU 11

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	01/31/22 11:10	02/01/22 12:18	1
o-Terphenyl	90		70 - 130	01/31/22 11:10	02/01/22 12:18	1

Client Sample ID: BH02

Date Collected: 01/25/22 09:50

Lab Sample ID: 890-1876-4

Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/28/22 12:00	01/28/22 16:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 16:32	1

Method. Total DTEX - Total DT	LX Galcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Range	Organic	:s (DRO) (G0	3)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

Method: 8015B NM - Diesel Rar	nge Organi	ics (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	01/31/22 11:10	02/01/22 12:40	1
o-Terphenyl	86	70 - 130	01/31/22 11:10	02/01/22 12:40	1

Client Sample ID: BH03

Date Collected: 01/25/22 10:08

Lab Sample ID: 890-1876-5

Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 3

Method: 8021B - Volatile	Organic Compou	nds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1

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Job ID: 890-1876-1 SDG: Eddy

Project/Site: RDU 11 **Client Sample ID: BH03** Lab Sample ID: 890-1876-5

Date Collected: 01/25/22 10:08 **Matrix: Solid** Date Received: 01/26/22 16:08

Sample Depth: 3

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/28/22 12:00	01/28/22 16:53	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/28/22 12:00	01/28/22 16:53	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
T-4-LTDLL	- 40.0							
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1
				mg/Kg			01/31/22 13:14	1
: Method: 8015B NM - Diesel R	ange Organ			mg/Kg Unit	D	Prepared	01/31/22 13:14 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel R Analyte	ange Organ	ics (DRO) Qualifier	(GC)	0 0	<u>D</u>	Prepared 01/31/22 11:10		·
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	ange Organ Result	ics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ange Organ Result	ics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	ics (DRO) Qualifier U	(GC) RL 49.9	Unit mg/Kg	<u>D</u>	01/31/22 11:10	Analyzed 02/01/22 13:02 02/01/22 13:02	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	ics (DRO) Qualifier U	(GC) RL 49.9	Unit mg/Kg	<u>D</u>	01/31/22 11:10	Analyzed 02/01/22 13:02 02/01/22 13:02	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	ics (DRO) Qualifier U U	(GC) RL 49.9	Unit mg/Kg	<u>D</u>	01/31/22 11:10	Analyzed 02/01/22 13:02 02/01/22 13:02	Dil Fac 1 1
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 <49.9 <49.9	ics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9	Unit mg/Kg	<u>D</u>	01/31/22 11:10 01/31/22 11:10 01/31/22 11:10	Analyzed 02/01/22 13:02 02/01/22 13:02 02/01/22 13:02	Dil Fac 1 1
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 <49.9 <49.9 %Recovery	ics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg	<u>D</u>	01/31/22 11:10 01/31/22 11:10 01/31/22 11:10 Prepared	Analyzed 02/01/22 13:02 02/01/22 13:02 02/01/22 13:02 Analyzed 02/01/22 13:02	Dil Fac 1 1 1 Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	U Qualifier U Qualifier Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg	<u>D</u>	01/31/22 11:10 01/31/22 11:10 01/31/22 11:10 Prepared 01/31/22 11:10	Analyzed 02/01/22 13:02 02/01/22 13:02 02/01/22 13:02 Analyzed 02/01/22 13:02	Dil Fac 1 1 1 Dil Fac 1

Lab Sample ID: 890-1876-6 **Client Sample ID: BH03 Matrix: Solid**

25.3

2570

mg/Kg

Date Collected: 01/25/22 10:14

Date Received: 01/26/22 16:08

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/28/22 12:00	01/28/22 17:13	1
1.4-Difluorobenzene (Surr)	89		70 - 130			01/28/22 12:00	01/28/22 17:13	1

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02/01/22 18:58

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH03

Lab Sample ID: 890-1876-6

02/01/22 19:04

Matrix: Solid

Date Collected: 01/25/22 10:14 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			01/31/22 11:10	02/01/22 13:24	1
o-Terphenyl	84		70 - 130			01/31/22 11:10	02/01/22 13:24	1
-								
Method: 300.0 - Anions, Ion C	_							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1876-7 **Client Sample ID: BH04** Date Collected: 01/25/22 10:34 **Matrix: Solid**

24.8

mg/Kg

2420 F1

Date Received: 01/26/22 16:08

Sample Depth: 3

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 17:34	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/28/22 12:00	01/28/22 17:34	1
Method: Total BTEX - Total	I BTEX Calcula	tion						
Method: Total BTEX - Tota Analyte		tion Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL 0.00403	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/02/22 16:52	Dil Fac
Analyte Total BTEX	<0.00403	Qualifier U	0.00403		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel	Result <0.00403	Qualifier U	0.00403		<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Analyte	Result <0.00403	Qualifier U	0.00403 GC)	mg/Kg			02/02/22 16:52	1
	Result <0.00403 Range Organic Result 68.8	Qualifier U S (DRO) (O Qualifier	0.00403 GC) RL 49.9	mg/Kg			02/02/22 16:52 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	Result <0.00403 Range Organic Result 68.8 Range Organic	Qualifier U S (DRO) (O Qualifier	0.00403 GC) RL 49.9	mg/Kg			02/02/22 16:52 Analyzed	1

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID: 890-1876-7

Lab Sample ID: 890-1876-8

Matrix: Solid

Client Sample ID: BH04

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Client: WSP USA Inc.

Project/Site: RDU 11

Date Collected: 01/25/22 10:34	Matrix: Solid
Date Received: 01/26/22 16:08	
Sample Depth: 3	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	68.8		49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			01/31/22 11:10	02/01/22 13:46	1
o-Terphenyl	103		70 - 130			01/31/22 11:10	02/01/22 13:46	1

Method: 300.0 - Anions, Ion Cl	hromatography - Solub	le					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3320	25.0	mg/Kg			02/01/22 19:22	5

Client Sample ID: BH04

Date Collected: 01/25/22 10:40 Date Received: 01/26/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Orga Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 17:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/28/22 12:00	01/28/22 17:54	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (6	GC)					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO)	(GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 14:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 14:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

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01/31/22 11:10 02/01/22 14:08

70 - 130

86

o-Terphenyl

Date Received: 01/26/22 16:08

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID: 890-1876-8 **Client Sample ID: BH04** Date Collected: 01/25/22 10:40

Matrix: Solid

Sample Depth: 4

Project/Site: RDU 11

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	2610	25.0	mg/Kg			02/01/22 19:38	5		

Client Sample ID: BH05 Lab Sample ID: 890-1876-9

Date Collected: 01/25/22 13:20 Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130			01/28/22 12:00	01/28/22 18:14	
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 18:14	
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/02/22 16:52	
	•		•	Unit	n	Propared	Analyzod	Dil E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Rai Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/31/22 13:14	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		D_	Prepared		Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R	Result <49.9	Qualifier U	RL 49.9		<u>D</u> D	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.9	Qualifier U ics (DRO) Qualifier	RL 49.9	mg/Kg	_ =	<u> </u>	01/31/22 13:14	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	_ =	Prepared 01/31/22 11:10	01/31/22 13:14 Analyzed	
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 ange Organ Result <49.9	Qualifier U ics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:30	
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:30 02/01/22 14:30	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U ics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:30 02/01/22 14:30 02/01/22 14:30	Dil Fa
Analyte	Result	Qualifier U ics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10 01/31/22 11:10 Prepared 01/31/22 11:10	Analyzed 02/01/22 14:30 02/01/22 14:30 02/01/22 14:30 Analyzed	Dil Fa
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 <49.9	Qualifier U CS (DRO) Qualifier U U U Qualifier S1-	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10 01/31/22 11:10 Prepared 01/31/22 11:10	Analyzed 02/01/22 14:30 02/01/22 14:30 02/01/22 14:30 Analyzed 02/01/22 14:30	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U CS (DRO) Qualifier U U U Qualifier S1-	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/31/22 11:10 01/31/22 11:10 01/31/22 11:10 Prepared 01/31/22 11:10	Analyzed 02/01/22 14:30 02/01/22 14:30 02/01/22 14:30 Analyzed 02/01/22 14:30	Dil Fa

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Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11 SDG: Eddy

Lab Sample ID: 890-1876-10 **Client Sample ID: BH05**

Date Collected: 01/25/22 13:25 **Matrix: Solid** Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 18:35	1
1,4-Difluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 18:35	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			02/02/22 16:52	1
Method: 8015 NM - Diesel Ra	nge Organic	s (DRO) (0	SC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			01/31/22 11:10	02/01/22 15:13	1
o-Terphenyl	76		70 - 130			01/31/22 11:10	02/01/22 15:13	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					
-,	J							

Client Sample ID: BH06 Lab Sample ID: 890-1876-11 Date Collected: 01/25/22 14:10 **Matrix: Solid**

4.98

mg/Kg

35.6

Date Received: 01/26/22 16:08

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 18:55	1

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02/02/22 10:49

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH06

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08

Sample Depth: 1

Client: WSP USA Inc.

Project/Site: RDU 11

Lab Sample ID: 890-1876-11

Matrix: Solid

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

Surrogate Dil Fac %Recovery Qualifier Limits Prepared Analyzed 01/28/22 12:00 01/28/22 18:55 1,4-Difluorobenzene (Surr) 104 70 - 130

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 01/31/22 13:14

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			01/31/22 11:10	02/01/22 15:35	1
o-Terphenvl	78		70 - 130			01/31/22 11:10	02/01/22 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride 5.03 02/01/22 20:08 601 mg/Kg

Client Sample ID: BH06

Date Received: 01/26/22 16:08

Sample Depth: 4

Lab Sample ID: 890-1876-12 Date Collected: 01/25/22 14:28 **Matrix: Solid**

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	01/28/22 12:00	01/28/22 19:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/28/22 12:00	01/28/22 19:16	1

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

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Total TPH <50.0 U 01/31/22 13:14 50.0 mg/Kg

Method. 00 130 MM - Diesei Kai	ige Organi	ics (DICO) (t	30)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1

Client Sample Results

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH06 Lab Sample ID: 890-1876-12

Date Collected: 01/25/22 14:28 Matrix: Solid
Date Received: 01/26/22 16:08

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/31/22 11:10	02/01/22 15:57	1
o-Terphenyl	86		70 - 130	01/31/22 11:10	02/01/22 15:57	1
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	464	4.98	mg/Kg			02/01/22 20:14	1				

7

8

10

12

13

12

Surrogate Summary

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perc	ent Surrogate Red	cov
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-1872-A-3-C MS	Matrix Spike	100	88		
890-1872-A-3-D MSD	Matrix Spike Duplicate	100	90		
890-1876-1	BH01	111	100		
890-1876-2	BH01	117	101		
890-1876-3	BH02	123	103		
890-1876-4	BH02	114	101		
890-1876-5	BH03	108	75		
890-1876-6	BH03	121	89		
890-1876-7	BH04	116	82		
890-1876-8	BH04	112	99		
890-1876-9	BH05	130	100		
890-1876-10	BH05	123	112		
890-1876-11	BH06	115	104		
890-1876-12	BH06	128	89		
LCS 880-17922/1-A	Lab Control Sample	100	101		
LCSD 880-17922/2-A	Lab Control Sample Dup	102	97		
MB 880-17922/5-A	Method Blank	111	100		

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent	t Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1876-1	BH01	81	90	
890-1876-2	BH01	81	92	
890-1876-3	BH02	79	90	
890-1876-4	BH02	77	86	
890-1876-5	BH03	82	93	
890-1876-6	BH03	76	84	
890-1876-7	BH04	91	103	
890-1876-8	BH04	72	86	
890-1876-9	BH05	68 S1-	76	
890-1876-10	BH05	66 S1-	76	
890-1876-11	BH06	69 S1-	78	
890-1876-12	BH06	77	86	
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-	
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70	
LCS 880-18143/2-A	Lab Control Sample	90	96	
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93	
MB 880-18143/1-A	Method Blank	82	97	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17922/5-A

Lab Sample ID: LCS 880-17922/1-A

Matrix: Solid

Analysis Batch: 17974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17922

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/28/22 07:30	01/28/22 11:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/28/22 07:30	01/28/22 11:18	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17922

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 70 - 130 0.100 0.07650 mg/Kg 76 Toluene 0.100 0.07336 mg/Kg 73 70 - 130 Ethylbenzene 0.100 0.07414 mg/Kg 74 70 - 130 m-Xylene & p-Xylene 0.200 76 0.1514 mg/Kg 70 - 130 o-Xylene 0.100 0.07781 mg/Kg 78 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-17922/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 17974

Analysis Batch: 17974

Prep Type: Total/NA Prep Batch: 17922

Spike	LCSD	LCSD				%Rec.		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.08267		mg/Kg		83	70 - 130	8	35
0.100	0.08204		mg/Kg		82	70 - 130	11	35
0.100	0.08305		mg/Kg		83	70 - 130	11	35
0.200	0.1720		mg/Kg		86	70 - 130	13	35
0.100	0.08577		mg/Kg		86	70 - 130	10	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.08267 0.100 0.08204 0.100 0.08305 0.200 0.1720	Added Result Qualifier 0.100 0.08267 0.100 0.08204 0.100 0.08305 0.200 0.1720	Added Result Qualifier Unit 0.100 0.08267 mg/Kg 0.100 0.08204 mg/Kg 0.100 0.08305 mg/Kg 0.200 0.1720 mg/Kg	Added Result Qualifier Unit D 0.100 0.08267 mg/Kg 0.100 0.08204 mg/Kg 0.100 0.08305 mg/Kg 0.200 0.1720 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.08267 mg/Kg 83 0.100 0.08204 mg/Kg 82 0.100 0.08305 mg/Kg 83 0.200 0.1720 mg/Kg 86	Added Result Qualifier Unit D %Rec Limits 0.100 0.08267 mg/Kg 83 70 - 130 0.100 0.08204 mg/Kg 82 70 - 130 0.100 0.08305 mg/Kg 83 70 - 130 0.200 0.1720 mg/Kg 86 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.08267 mg/Kg 83 70 - 130 8 0.100 0.08204 mg/Kg 82 70 - 130 11 0.100 0.08305 mg/Kg 83 70 - 130 11 0.200 0.1720 mg/Kg 86 70 - 130 13

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1872-A-3-C MS

Matrix: Solid

Analysis Batch: 17974

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

Prep Batch: 17922

_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.08204		mg/Kg		82	70 - 130	
Toluene	<0.00201	U	0.0998	0.07890		mg/Kg		79	70 - 130	

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

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

Lab Sample ID: 890-1872-A-3-C MS

Lab Sample ID: 890-1872-A-3-D MSD

Matrix: Solid

Analysis Batch: 17974

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17922

_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0998	0.08289		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1698		mg/Kg		85	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.08492		mg/Kg		85	70 - 130	

MS MS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1 4-Difluorobenzene (Surr)	88		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 17974

Prep Type: Total/NA

Prep Batch: 17922 **RPD**

Sample Sample Spike MSD MSD %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit 70 - 130 Benzene <0.00201 U 0.0998 0.08226 mg/Kg 82 0 35 Toluene <0.00201 U 0.0998 0.07930 79 70 - 130 35 mg/Kg Ethylbenzene <0.00201 U 0.0998 0.08132 mg/Kg 81 70 - 130 2 35 m-Xylene & p-Xylene <0.00402 U 0.200 0.1645 mg/Kg 82 70 - 130 35 o-Xylene <0.00201 U 0.0998 0.08062 81 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-18143/1-A

Matrix: Solid

Analysis Batch: 18225

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

Prep Batch: 18143

l		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 09:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/31/22 11:10	02/01/22 09:23	1
o-Terphenyl	97		70 - 130	01/31/22 11:10	02/01/22 09:23	1

Lab Sample ID: LCS 880-18143/2-A

Matrix: Solid

Analysis Batch: 18225

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

Prep Batch: 18143

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	846.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1190		mg/Kg		119	70 - 130	

C10-C28)

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

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

Lab Sample ID: LCS 880-18143/2-A

Matrix: Solid

Project/Site: RDU 11

Analysis Batch: 18225

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18143

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

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-18143/3-A

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 18225** Prep Batch: 18143

LCSD LCSD RPD %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 926.5 mg/Kg 93 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1204 mg/Kg 120 70 - 130 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1883-A-1-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 18225** Prep Batch: 18143 Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <49.9 U Gasoline Range Organics 999 851.8 mg/Kg 83 70 - 130 (GRO)-C6-C10 999 Diesel Range Organics (Over <49.9 U 970.6 mg/Kg 95 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 69 S1-1-Chlorooctane 70 - 130 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: 890-1883-A-1-D MSD

Matrix: Solid

Analysis Batch: 18225

Allalysis Dalcil. 10223									Liehr	Jaicii.	10143
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	967.9		mg/Kg		95	70 - 130	13	20
Diesel Range Organics (Over	<49.9	U	999	999.6		mg/Kg		98	70 - 130	3	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenvl	70		70 - 130

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Prep Type: Total/NA

Pron Batch: 181/3

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18029/1-A

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

Matrix: Solid

Analysis Batch: 18094

MB MB

2420 F1

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Chloride 5.00 02/01/22 17:20 <5.00 U mg/Kg

Lab Sample ID: LCS 880-18029/2-A

Client Sample ID: Lab Control Sample Prep Type: Soluble

Matrix: Solid

Analysis Batch: 18094

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 231.6 mg/Kg 93

Lab Sample ID: LCSD 880-18029/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 18094

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Chloride 250 261.3 105 mg/Kg

Lab Sample ID: 890-1876-6 MS

Client Sample ID: BH03 Prep Type: Soluble

Matrix: Solid

Analysis Batch: 18094

Spike MS MS %Rec. Sample Sample Added Result Qualifier Result Qualifier Unit %Rec Limits

3559

mg/Kg

1240

Lab Sample ID: 890-1876-6 MSD

90 - 110

Matrix: Solid

Analyte

Chloride

Analysis Batch: 18094

Client Sample ID: BH03 **Prep Type: Soluble**

RPD %Rec.

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 2420 F1 1240 3183 F1 62 90 - 110 20 mg/Kg 11

QC Association Summary

Client: WSP USA Inc.
Project/Site: RDU 11
Job ID: 890-1876-1
SDG: Eddy

GC VOA

Prep Batch: 17922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	5035	
890-1876-2	BH01	Total/NA	Solid	5035	
890-1876-3	BH02	Total/NA	Solid	5035	
890-1876-4	BH02	Total/NA	Solid	5035	
890-1876-5	BH03	Total/NA	Solid	5035	
890-1876-6	BH03	Total/NA	Solid	5035	
890-1876-7	BH04	Total/NA	Solid	5035	
890-1876-8	BH04	Total/NA	Solid	5035	
890-1876-9	BH05	Total/NA	Solid	5035	
890-1876-10	BH05	Total/NA	Solid	5035	
890-1876-11	BH06	Total/NA	Solid	5035	
890-1876-12	BH06	Total/NA	Solid	5035	
MB 880-17922/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8021B	17922
890-1876-2	BH01	Total/NA	Solid	8021B	17922
890-1876-3	BH02	Total/NA	Solid	8021B	17922
890-1876-4	BH02	Total/NA	Solid	8021B	17922
890-1876-5	BH03	Total/NA	Solid	8021B	17922
890-1876-6	BH03	Total/NA	Solid	8021B	17922
890-1876-7	BH04	Total/NA	Solid	8021B	17922
890-1876-8	BH04	Total/NA	Solid	8021B	17922
890-1876-9	BH05	Total/NA	Solid	8021B	17922
890-1876-10	BH05	Total/NA	Solid	8021B	17922
890-1876-11	BH06	Total/NA	Solid	8021B	17922
890-1876-12	BH06	Total/NA	Solid	8021B	17922
MB 880-17922/5-A	Method Blank	Total/NA	Solid	8021B	17922
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	8021B	17922
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17922
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	17922
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17922

Analysis Batch: 18419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	Total BTEX	
890-1876-2	BH01	Total/NA	Solid	Total BTEX	
890-1876-3	BH02	Total/NA	Solid	Total BTEX	
890-1876-4	BH02	Total/NA	Solid	Total BTEX	
890-1876-5	BH03	Total/NA	Solid	Total BTEX	
890-1876-6	BH03	Total/NA	Solid	Total BTEX	
890-1876-7	BH04	Total/NA	Solid	Total BTEX	
890-1876-8	BH04	Total/NA	Solid	Total BTEX	
890-1876-9	BH05	Total/NA	Solid	Total BTEX	
890-1876-10	BH05	Total/NA	Solid	Total BTEX	

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QC Association Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: Eddy

GC Semi VOA

Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015NM Prep	
890-1876-2	BH01	Total/NA	Solid	8015NM Prep	
890-1876-3	BH02	Total/NA	Solid	8015NM Prep	
890-1876-4	BH02	Total/NA	Solid	8015NM Prep	
890-1876-5	BH03	Total/NA	Solid	8015NM Prep	
890-1876-6	BH03	Total/NA	Solid	8015NM Prep	
890-1876-7	BH04	Total/NA	Solid	8015NM Prep	
890-1876-8	BH04	Total/NA	Solid	8015NM Prep	
890-1876-9	BH05	Total/NA	Solid	8015NM Prep	
890-1876-10	BH05	Total/NA	Solid	8015NM Prep	
890-1876-11	BH06	Total/NA	Solid	8015NM Prep	
890-1876-12	BH06	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015 NM	
890-1876-2	BH01	Total/NA	Solid	8015 NM	
890-1876-3	BH02	Total/NA	Solid	8015 NM	
890-1876-4	BH02	Total/NA	Solid	8015 NM	
890-1876-5	BH03	Total/NA	Solid	8015 NM	
890-1876-6	BH03	Total/NA	Solid	8015 NM	
890-1876-7	BH04	Total/NA	Solid	8015 NM	
890-1876-8	BH04	Total/NA	Solid	8015 NM	
890-1876-9	BH05	Total/NA	Solid	8015 NM	
890-1876-10	BH05	Total/NA	Solid	8015 NM	
890-1876-11	BH06	Total/NA	Solid	8015 NM	
890-1876-12	BH06	Total/NA	Solid	8015 NM	

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015B NM	18143
890-1876-2	BH01	Total/NA	Solid	8015B NM	18143
890-1876-3	BH02	Total/NA	Solid	8015B NM	18143
890-1876-4	BH02	Total/NA	Solid	8015B NM	18143
890-1876-5	BH03	Total/NA	Solid	8015B NM	18143
890-1876-6	BH03	Total/NA	Solid	8015B NM	18143
890-1876-7	BH04	Total/NA	Solid	8015B NM	18143
890-1876-8	BH04	Total/NA	Solid	8015B NM	18143
890-1876-9	BH05	Total/NA	Solid	8015B NM	18143
890-1876-10	BH05	Total/NA	Solid	8015B NM	18143
890-1876-11	BH06	Total/NA	Solid	8015B NM	18143
890-1876-12	BH06	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143

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2/3/2022

QC Association Summary

Client: WSP USA Inc.
Project/Site: RDU 11
Job ID: 890-1876-1
SDG: Eddy

GC Semi VOA (Continued)

Analysis Batch: 18225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

HPLC/IC

Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	DI Leach	
890-1876-6	BH03	Soluble	Solid	DI Leach	
890-1876-7	BH04	Soluble	Solid	DI Leach	
890-1876-8	BH04	Soluble	Solid	DI Leach	
890-1876-9	BH05	Soluble	Solid	DI Leach	
890-1876-10	BH05	Soluble	Solid	DI Leach	
890-1876-11	BH06	Soluble	Solid	DI Leach	
890-1876-12	BH06	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1876-6 MS	BH03	Soluble	Solid	DI Leach	
890-1876-6 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	300.0	18029
890-1876-6	BH03	Soluble	Solid	300.0	18029
890-1876-7	BH04	Soluble	Solid	300.0	18029
890-1876-8	BH04	Soluble	Solid	300.0	18029
890-1876-9	BH05	Soluble	Solid	300.0	18029
890-1876-10	BH05	Soluble	Solid	300.0	18029
890-1876-11	BH06	Soluble	Solid	300.0	18029
890-1876-12	BH06	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1876-6 MS	BH03	Soluble	Solid	300.0	18029
890-1876-6 MSD	BH03	Soluble	Solid	300.0	18029

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH01

Client: WSP USA Inc.

Project/Site: RDU 11

Lab Sample ID: 890-1876-1

Matrix: Solid

Date Collected: 01/25/22 09:10 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 14:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 11:34		XEN MID XEN MID

Lab Sample ID: 890-1876-2

Matrix: Solid

Date Collected: 01/25/22 09:24 Date Received: 01/26/22 16:08

Client Sample ID: BH01

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 14:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 11:56	AJ	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-3

Date Collected: 01/25/22 09:32

Matrix: Solid

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 12:18	AJ	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-4 Date Collected: 01/25/22 09:50 Matrix: Solid

Date Received: 01/26/22 16:08

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 12:40	AJ	XEN MID

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH03

Project/Site: RDU 11

Lab Sample ID: 890-1876-5

Matrix: Solid

Date Collected: 01/25/22 10:08 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 18:58	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1876-6

Date Collected: 01/25/22 10:14 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:04	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-7

Date Collected: 01/25/22 10:34 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:22	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-8 Date Collected: 01/25/22 10:40 Matrix: Solid

Date Received: 01/26/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID

Eurofins Carlsbad

Page 24 of 33

Matrix: Solid

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH04

Lab Sample ID: 890-1876-8 Matrix: Solid

Date Collected: 01/25/22 10:40 Date Received: 01/26/22 16:08

1	Prepared			
	or Analyzed	Analyst	Lab	

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
F	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Ŧ	otal/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Т	otal/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Т	otal/NA	Analysis	8015B NM		1			18225	02/01/22 14:08	AJ	XEN MID
S	Soluble	Leach	DI Leach			5.01 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
S	Soluble	Analysis	300.0		5			18094	02/01/22 19:38	CH	XEN MID

Lab Sample ID: 890-1876-9

Client Sample ID: BH05 Date Collected: 01/25/22 13:20

Date Received: 01/26/22 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 19:56	CH	XEN MID

Lab Sample ID: 890-1876-10 **Client Sample ID: BH05** Date Collected: 01/25/22 13:25

Date Received: 01/26/22 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/02/22 10:49	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1876-11 Date Collected: 01/25/22 14:10 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 15:35	DM AJ	XEN MID XEN MID

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH06

Lab Sample ID: 890-1876-11

Matrix: Solid

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:08	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1876-12

Date Collected: 01/25/22 14:28 **Matrix: Solid** Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 19:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:14	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11

SDG: Eddy

Laboratory: Eurofins Midland

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

Authority	Pı	rogram	Identification Number	Expiration Date_
Texas	Ni	ELAP	T104704400-21-22	06-30-22
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1876-1	BH01	Solid	01/25/22 09:10	01/26/22 16:08	1
890-1876-2	BH01	Solid	01/25/22 09:24	01/26/22 16:08	4
890-1876-3	BH02	Solid	01/25/22 09:32	01/26/22 16:08	1
890-1876-4	BH02	Solid	01/25/22 09:50	01/26/22 16:08	4
890-1876-5	BH03	Solid	01/25/22 10:08	01/26/22 16:08	3
890-1876-6	BH03	Solid	01/25/22 10:14	01/26/22 16:08	4
890-1876-7	BH04	Solid	01/25/22 10:34	01/26/22 16:08	3
890-1876-8	BH04	Solid	01/25/22 10:40	01/26/22 16:08	4
890-1876-9	BH05	Solid	01/25/22 13:20	01/26/22 16:08	2
890-1876-10	BH05	Solid	01/25/22 13:25	01/26/22 16:08	4
890-1876-11	BH06	Solid	01/25/22 14:10	01/26/22 16:08	1
890-1876-12	BH06	Solid	01/25/22 14:28	01/26/22 16:08	4

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Project Manager: Company Name:

A SHEE

State of Project:

UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐

Superfund

Work Order Comments

www.xenco.com

13

Environment Testing

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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Part	/7470 /7471	J Нд: 1631 / 245.1		s Ba Be Cd Cr Co Cu	A Sb A	LP 6010 : 8RCR	TCLP / SF	oe analyzed	and Metal(s) to I	le Method(s)
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MINIMAGE TX 1976S City, State ZIR. 251 - 782 - 23 249 Email: Anna. Byelf & WSp. (OM) ANALYSIS REQUEST ANALYSIS REQUES				×	×	4	*	_		RHOJ
MALYSIS REQUEST Reporting: Level II Re				×	×	2' Grab	_	`		
ANN A Temperature Reading: 1.2 1.0 ANNCI BYELL & WS D' (OM) Deliverables: EDD	Sample Comments			1PH Ch		Grab/ Comp				Sample Identi
PT Temp Blank: (Yes) No Thermometer ID: Temperature Reading: 1.2 (1.0) Seals: Yes No NA Temperature Reading: 1.2 (1.0) ANALYSIS REQUEST	NaOH+Ascorbic Acid: SAPC	_	-	Lor			ted Temperature:	Corre		Total Containers:
PT Temp Blank: Yes No MA Correction Factor: Y	Zn Acetate+NaOH: Zn	ody	890-1876 Chain of Cust	E	-	1.2 (1.0	erature Reading:		Yes	Sample Custody Seals:
PT Temp Blank: Yes) No Thermometer ID: Temp Annot Temp Stank (Fig. No) Temp Stank: Yes) No Thermometer ID: Temp Stank: Yes) No Temp Stank: Yes N	Na ₂ S ₂ O ₃ : NaSO ₃			PA		-0.7	tion Factor:		Yes No	Cooler Custody Seals:
PT Temp Blank: (Yeg) No Wet Ice: Yeg) No Email: A TOCA BY AND TOCA WET ICE: The lab, if received by 4:30 pm Press Reporting: Level II Deliverables: EDD ANALYSIS REQUEST ANALYSI	NaHSO 4: NABIS			3		1-Nmou	ometer ID:		Yes	oles Received Inta
AND TY 1976S City State ZIP. AND AND THE Final City State ZIP. AND AND THE Final City State ZIP. AND AND AND COMPANY STATE AND COMPANY	H ₃ PO ₄ : HP			84			_	Yes	Temp Bla	SAMPLE RECEIPT
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REPORTING: Level II STANDA TX 74765 City, State ZIP.				(90)	_		Due Date:		EDOT	Project Location:
MINIMA TX 7976S — CITY, STATE ZIP. —> REPORTING: Level II — REPORTING: Level II — REPORTING: Level II — ANALYSIS REQUEST —					Pres. Code		Routine	6.03)	3140336	Project Number:
ASI - 782 - 23 29 Email: ANNO. BYELL & WSD. COM Deliverables: EDD	Preservative Codes		ANALYSIS REQUEST			round	Turn	7	RDU 1	Project Name:
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eurofins Xenco

Project Location: Project Number: Project Name:

31403360.031

Routine

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ANALYSIS REQUEST

State of Project:

Deliverables: EDD

ADaPT [

Other:

Preservative Codes

DI Water: H₂O

HCL: HC Cool: Cool None: NO

HNO 3: HN MeOH: Me Reporting: Level II | Level III | PST/UST | TRRP |

Level IV

Program: UST/PST PRP Brownfields RRC

Superfund [

City, State ZIP:

281 - 70a ROUM

50tht

Address: ompany Name: roject Manager

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(if different)

Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order Cor	www.xenco.com
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Work Order No:

Revised Date 08/25/2020 Rev. 2020 2	S.a.		6						
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	ons old control of the control of th	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Xenco, its affiliates and su incurred by the client if su fins Xenco, but not analyz	to Eurofins r expenses ted to Euro	om client company ility for any losses o ach sample submit	alid purchase order frassume any responsib	ples constitutes a v ples and shall not to each project a	t and relinquishment of sampliable only for the cost of sam liable only for the cost of sam arge of \$85.00 will be applied	ce: Signature of this documer sydce. Eurofins Xenco will be urofins Xenco. A minimum ch
/4/	U Hg: 1631 / 245.1 / /4/0 / /4/1	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U	As Ba Be Cd Cr	RA Sb	6010 : 8RC	TCLP / SPLF	lyzed	Metal(s) to be ana	Circle Method(s) and Metal(s) to be analyzed
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NABIS	NaHSO 4: NABIS		8.8		1	r ID:	Thermometer ID:	Yes No	Samples Received Intact:
₽	H ₃ PO ₄ : HP		921 101.	nete	Yes No	Wet ice:	Yes No	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ SO 4: H ₂				d by 4:30pm	the lab, if received by 4:30pm	03)	31403360.031	PO #:
HNO 3: HN	HCI: HC				received by	TAT starts the day received by		Marcy Rotich	Sampler's Name:
	Cool: Cool		n) Ø)			Due Date:		8004	Project Location:

Login Sample Receipt Checklist

Job Number: 890-1876-1

SDG Number: Eddy

List Source: Eurofins Carlsbad Login Number: 1876

List Number: 1

Client: WSP USA Inc.

Creator: Olivas, Nathaniel

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1876-1

SDG Number: Eddy

Login Number: 1876
List Source: Eurofins Midland
List Number: 2
List Creation: 01/28/22 12:32 PM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2003-1

Laboratory Sample Delivery Group: 31403360.03

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

J. WAMER

Authorized for release by: 3/3/2022 3:57:39 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 10/4/2022 11:58:47 AM

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

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

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

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-2003-1

SDG: 31403360.03

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2003-1 SDG: 31403360.03 Project/Site: RDU 11

Qualifiers

GC VOA	
Qualifier	

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description				
U	Indicates the analyte was analyzed for but not detected.				

Glossary

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

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Job ID: 890-2003-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2003-1

Receipt

The samples were received on 2/23/2022 11:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (890-2009-A-3-I), (890-2009-A-3-G MS) and (890-2009-A-3-H MSD) at 25.0, 25.0 and 25.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20605 and analytical batch 880-20710 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH10 (890-2003-7), (LCS 880-20253/2-A) and (880-11670-A-1-D MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Lab Sample ID: 890-2003-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07

Date Collected: 02/18/22 10:45 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 02:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130			03/02/22 16:00	03/03/22 02:32	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Analyte Total TPH	Result 81.7	Qualifier	RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 02/25/22 15:07	Dil Fa
- Iotal IFII	01.7		00.0	mg/rtg			02/20/22 10:07	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:14	
Diesel Range Organics (Over								1
C10-C28)	81.7		50.0	mg/Kg		02/24/22 15:51	02/25/22 03:14	
	81.7 <50.0	U	50.0 50.0	mg/Kg mg/Kg		02/24/22 15:51	02/25/22 03:14 02/25/22 03:14	1
C10-C28)				0 0				1
C10-C28) OII Range Organics (Over C28-C36)	<50.0		50.0	0 0		02/24/22 15:51	02/25/22 03:14	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0		50.0 <i>Limits</i>	0 0		02/24/22 15:51 Prepared	02/25/22 03:14 Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 88 86 comatography -	Qualifier Soluble	50.0 Limits 70 - 130	0 0		02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 03:14 Analyzed 02/25/22 03:14	1 Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 **Recovery 88 86 comatography -	Qualifier	50.0 Limits 70 - 130	0 0	<u>D</u> _	02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 03:14 Analyzed 02/25/22 03:14	1 Dil Fac

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55 Date Received: 02/23/22 11:26

Released to Imaging: 10/4/2022 11:58:47 AM

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 03/02/22 16:00 03/03/22 02:59 Toluene <0.00202 U 0.00202 mg/Kg 03/02/22 16:00 03/03/22 02:59 Ethylbenzene <0.00202 U 0.00202 mg/Kg 03/02/22 16:00 03/03/22 02:59 <0.00403 U 0.00403 03/02/22 16:00 03/03/22 02:59 m-Xylene & p-Xylene mg/Kg <0.00202 U 0.00202 03/02/22 16:00 03/03/22 02:59 o-Xylene mg/Kg Xylenes, Total <0.00403 U 0.00403 03/02/22 16:00 03/03/22 02:59 mg/Kg %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 03/02/22 16:00 03/03/22 02:59

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55 Matrix: Solid Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130			03/02/22 16:00	03/03/22 02:59	1
– Method: Total BTEX - Total BT	EX Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/28/22 10:23	1

RL

Unit

Prepared

02/24/22 15:51

Analyzed

02/25/22 03:35

Result Qualifier

98

108

Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
_ Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			02/24/22 15:51	02/25/22 03:35	

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	510	5.00	mg/Kg			02/27/22 14:33	1

70 - 130

Client Sample ID: BH08 Lab Sample ID: 890-2003-3 Matrix: Solid

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Total TPH

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 03:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/02/22 16:00	03/03/22 03:25	1
Method: Total BTEX - Total B	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:23	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
	`							

Eurofins Carlsbad

02/25/22 15:07

50.0

mg/Kg

Dil Fac

3/3/2022

Lab Sample ID: 890-2003-3

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH08

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	108		50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/24/22 15:51	02/25/22 03:55	1
o-Terphenyl	74		70 - 130			02/24/22 15:51	02/25/22 03:55	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		25.1	mg/Kg			02/27/22 14:42	5

Lab Sample ID: 890-2003-4 **Client Sample ID: BH08** Date Collected: 02/18/22 11:10 **Matrix: Solid**

Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130			03/02/22 16:00	03/03/22 03:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/02/22 16:00	03/03/22 03:52	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			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/24/22 15:51	02/25/22 04:16	1
o-Terphenyl	100		70 - 130			02/24/22 15:51	02/25/22 04:16	1

Lab Sample ID: 890-2003-4

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH08

Date Collected: 02/18/22 11:10 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		4.98	mg/Kg			02/27/22 14:51	1

Client Sample ID: BH09

Lab Sample ID: 890-2003-5

Date Collected: 02/18/22 12:30

Matrix: Solid

Date Collected: 02/18/22 12:30 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			03/01/22 08:30	03/01/22 22:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130			03/01/22 08:30	03/01/22 22:15	1
· Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/22 15:07	Dil Fac
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	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			02/24/22 15:51	02/25/22 04:57	1
o-Terphenyl	83		70 - 130			02/24/22 15:51	02/25/22 04:57	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2003-6

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH09

Date Collected: 02/18/22 12:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/01/22 08:30	03/01/22 22:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130			03/01/22 08:30	03/01/22 22:36	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range								
			DI	Unit	n	Propared	Analyzod	Dil Eac
		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/25/22 15:07	
Analyte	Result	Qualifier			<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0 ge Organics (D)	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	_ =	<u> </u>	02/25/22 15:07	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg	_ =	Prepared	02/25/22 15:07 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	_ =	Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/24/22 15:51 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/24/22 15:51 02/24/22 15:51 02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 15:07 Analyzed 02/25/22 05:17 02/25/22 05:17 02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac 1 1 1 Dil Fac

Client Sample ID: BH10

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 22:56	1

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Lab Sample ID: 890-2003-7 Matrix: Solid
 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05

Date Received: 02/23/22 11:26

Matrix: Solid

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	03/01/22 08:30	03/01/22 22:56	1

1						
ı	Mothod:	Total	RTEY	- Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:23	1

н		
ı	Method: 8015 NM - Diesel Range Organics (DRO) (G	C)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1660		250	mg/Kg			02/25/22 15:07	1

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

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline (GRO)-C	Range Organics	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
` ′	Range Organics (Over	1660		250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Oll Rang	ge Organics (Over C28-C36)	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Surroga	te	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130	02/24/22 15:5	02/25/22 05:38	5
o-Terphenyl	81		70 - 130	02/24/22 15:5	1 02/25/22 05:38	5

$\label{eq:method:method:method:method:one} \textbf{Method: 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906	4.99	mg/Kg			02/27/22 15:35	1

Client Sample ID: BH10

Lab Sample ID: 890-2003-8

Date Collected: 02/18/22 13:20

Matrix: Solid

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/01/22 08:30	03/01/22 23:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			02/28/22 10:23	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	1

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Lab Sample ID: 890-2003-8

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH10

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			02/24/22 15:51	02/25/22 04:36	1
o-Terphenyl	89		70 - 130			02/24/22 15:51	02/25/22 04:36	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18000		253	mg/Kg			02/27/22 16:01	50

Client Sample ID: BH11

Date Collected: 02/18/22 13:30

Lab Sample ID: 890-2003-9

Matrix: Solid

Date Received: 02/23/22 11:26

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Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/01/22 08:30	03/01/22 23:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/01/22 08:30	03/01/22 23:37	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			02/28/22 10:23	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			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/25/22 08:25	02/25/22 17:05	1

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Job ID: 890-2003-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH11 Lab Sample ID: 890-2003-9

Date Collected: 02/18/22 13:30 Matrix: Solid Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.95	mg/Kg			02/27/22 16:10	1

Client Sample ID: BH11 Lab Sample ID: 890-2003-10 Matrix: Solid

Date Collected: 02/18/22 13:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:57	
1,4-Difluorobenzene (Surr)	103		70 - 130			03/01/22 08:30	03/01/22 23:57	1
· Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 10:23	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			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	113		70 - 130			02/25/22 08:25	02/25/22 17:25	1
o-Terphenyl	116		70 - 130			02/25/22 08:25	02/25/22 17:25	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<u> </u>								

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

latrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11907-A-1-B MS	Matrix Spike	98	106	
880-11907-A-1-C MSD	Matrix Spike Duplicate	94	98	
890-2003-1	BH07	88	91	
890-2003-2	BH07	78	94	
890-2003-3	BH08	88	95	
890-2003-4	BH08	59 S1-	92	
890-2003-5	BH09	111	97	
890-2003-6	BH09	104	93	
890-2003-7	BH10	105	102	
890-2003-8	BH10	105	101	
890-2003-9	BH11	100	90	
890-2003-10	BH11	105	103	
890-2009-A-3-G MS	Matrix Spike	72	73	
890-2009-A-3-H MSD	Matrix Spike Duplicate	122	75	
CB MB	Method Blank	51 S1-	99	
LCS 880-20526/1-A	Lab Control Sample	98	101	
LCS 880-20605/1-A	Lab Control Sample	101	124	
LCSD 880-20526/2-A	Lab Control Sample Dup	101	103	
LCSD 880-20605/2-A	Lab Control Sample Dup	97	102	
MB 880-20526/5-A	Method Blank	97	98	
	Method Blank	49 S1-	101	

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surro
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11670-A-1-D MS	Matrix Spike	69 S1-	73	
880-11670-A-1-E MSD	Matrix Spike Duplicate	82	77	
390-2003-1	BH07	88	86	
390-2003-2	BH07	96	98	
390-2003-3	BH08	76	74	
390-2003-4	BH08	98	100	
390-2003-5	BH09	81	83	
390-2003-6	BH09	83	85	
390-2003-7	BH10	54 S1-	81	
390-2003-8	BH10	84	89	
390-2003-9	BH11	89	85	
390-2003-10	BH11	113	116	
390-2004-A-1-E MS	Matrix Spike	94	81	
390-2004-A-1-F MSD	Matrix Spike Duplicate	92	80	
CS 880-20293/2-A	Lab Control Sample	80	81	
CSD 880-20293/3-A	Lab Control Sample Dup	103	104	
MB 880-20293/1-A	Method Blank	105	115	

Surrogate Summary

Client: WSP USA Inc. Project/Site: RDU 11

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-2003-1

SDG: 31403360.03

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

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

				Percent Surrogate Recovery (Accep	otance Limits)
		1CO2	OTPH2		
_ab Sample ID	Client Sample ID	(70-130)	(70-130)		
LCS 880-20253/2-A	Lab Control Sample	132 S1+	136 S1+		
LCSD 880-20253/3-A	Lab Control Sample Dup	113	128		
MB 880-20253/1-A	Method Blank	97	102		
Surrogate Legend					
1CO = 1-Chlorooctane					
OTPH = o-Terphenyl					

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20526/5-A

Matrix: Solid Analysis Batch: 20577 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20526

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/01/22 08:30	03/01/22 13:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/01/22 08:30	03/01/22 13:39	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-20526/1-A

Matrix: Solid

Analysis Batch: 20577

Prep Type: Total/NA

Prep Batch: 20526

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09731		mg/Kg		97	70 - 130	
Toluene	0.100	0.09402		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.2156		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1049		mg/Kg		105	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-20526/2-A

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20526

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	6	35	
Toluene	0.100	0.09946		mg/Kg		99	70 - 130	6	35	
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2324		mg/Kg		116	70 - 130	7	35	
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-2009-A-3-G MS

Matrix: Solid

Analysis Batch: 20577

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

Prep Batch: 20526

١		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.0498	U F1	0.101	0.8104	F1	mg/Kg	_	804	70 - 130	
ı	Toluene	<0.0498	U F1 F2	0.101	1.626	F1	mg/Kg		1613	70 - 130	

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: 890-2009-A-3-G MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20526

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.0498	U F1 F2	0.101	2.379	F1	mg/Kg		2360	70 - 130	
m-Xylene & p-Xylene	<0.0996	U F1 F2	0.202	9.133	F1	mg/Kg		4530	70 - 130	
o-Xylene	<0.0498	U F1 F2	0.101	4.163	F1	mg/Kg		4130	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	72	70 - 130
1.4-Difluorobenzene (Surr)	73	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20526

RPD

Analysis Batch: 20577 Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.0996 0.9509 F1 Benzene <0.0498 UF1 mg/Kg 955 70 - 130 16 35 Toluene 0.0996 2515 <0.0498 U F1 F2 2.505 F1 F2 mg/Kg 70 - 130 43 35 3519 Ethylbenzene <0.0498 U F1 F2 0.0996 3.505 F1 F2 70 - 130 38 35 mg/Kg m-Xylene & p-Xylene <0.0996 UF1F2 0.199 15.01 F1 F2 7534 70 - 130 49 35 mq/Kq 0.0996 o-Xylene <0.0498 U F1 F2 7.358 F1 F2 7387 70 - 130 55 mg/Kg

MSD MSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1 4-Difluorobenzene (Surr)	75	70 130

Lab Sample ID: MB 880-20605/5-A

Lab Sample ID: 890-2009-A-3-H MSD

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20605

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130	03/02/22 16:00	03/02/22 20:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/02/22 16:00	03/02/22 20:20	1

Lab Sample ID: LCS 880-20605/1-A

Matrix: Solid

Analysis Batch: 20710

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

Prep Batch: 20605

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1224		mg/Kg		122	70 - 130	
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: LCS 880-20605/1-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 20710** Prep Batch: 20605 LCS LCS

Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.1072 107 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 101 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 124

Lab Sample ID: LCSD 880-20605/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20710** Prep Batch: 20605

Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Benzene 0.100 0.1058 mg/Kg 106 70 - 130 15 35 Toluene 0.100 0.09560 mg/Kg 96 70 - 130 9 35 Ethylbenzene 0.100 0.1004 mg/Kg 100 70 - 130 6 35 m-Xylene & p-Xylene 0.200 0.2080 mg/Kg 104 70 - 130 6 35 0.100 0.09996 100 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 880-11907-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 20710

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Benzene <0.00200 U 0.101 0.07733 mg/Kg 77 70 - 130 Toluene <0.00200 U F1 0.101 0.06553 F1 mg/Kg 65 70 - 130 Ethylbenzene <0.00200 UF1 0.101 0.06954 F1 mg/Kg 69 70 - 130 m-Xylene & p-Xylene < 0.00401 U 0.201 0.1418 mg/Kg 70 70 - 130 o-Xylene <0.00200 U 0.101 0.07034 mg/Kg 70 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 106

Lab Sample ID: 880-11907-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20710** Prep Batch: 20605

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07748	-	mg/Kg		77	70 - 130	0	35
Toluene	<0.00200	U F1	0.100	0.06554	F1	mg/Kg		65	70 - 130	0	35
Ethylbenzene	<0.00200	U F1	0.100	0.07098		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1454		mg/Kg		72	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07552		mg/Kg		75	70 - 130	7	35

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Prep Batch: 20605

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: 880-11907-A-1-C MSD

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20605

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: CB MB Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 20710

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 03/02/22 17:14 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 03/02/22 17:14 <0.00200 U 0.00200 mg/Kg 03/02/22 17:14 Ethylbenzene m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/02/22 17:14 o-Xylene <0.00200 U 0.00200 mg/Kg 03/02/22 17:14 Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/02/22 17:14

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130		03/02/22 17:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130		03/02/22 17:14	1

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

Lab Sample ID: MB 880-20253/1-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20253

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/24/22 21:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/24/22 21:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/24/22 21:01	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/24/22 15:51	02/24/22 21:01	1
o-Terphenyl	102		70 - 130	02/24/22 15:51	02/24/22 21:01	1

Lab Sample ID: LCS 880-20253/2-A

Matrix: Solid

Analysis Batch: 20195

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

Prep Batch: 20253

%Rec

	Opino						/ortco.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	808.4		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1182		mg/Kg		118	70 - 130	
C10-C28)								

Snike

LCS LCS

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 20253

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

Lab Sample ID: LCSD 880-20253/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253 LCCD LCCD Child

	Бріке	LCSD	LCSD			%Rec.		KPD
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	876.2	m	g/Kg	88	70 - 130	8	20
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1084	m	g/Kg	108	70 - 130	9	20
C10-C28)								

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 113 o-Terphenyl 128 70 - 130

Lab Sample ID: 880-11670-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 20195

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U 1000 70 - 130 Gasoline Range Organics 1187 mg/Kg 114 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 1120 mg/Kg 112 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 69 S1-70 - 130 o-Terphenyl 73 70 - 130

Lab Sample ID: 880-11670-A-1-E MSD

Matrix: Solid

Analysis Batch: 20195

Prep Batch: 20253 Sample Sample Spike MSD MSD %Rec. **RPD** Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD <50.0 U 998 1007 20 Gasoline Range Organics 97 70 - 130 16 mg/Kg (GRO)-C6-C10 <50.0 U 998 1187 119 20 Diesel Range Organics (Over mg/Kg 70 - 130 6

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 77 70 - 130 o-Terphenyl

MD MD

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20293

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

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

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

MB MB

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/2	25/22 08:25	02/25/22 12:36	1
o-Terphenyl	115		70 - 130	02/2	25/22 08:25	02/25/22 12:36	1

Lab Sample ID: LCS 880-20293/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA Prep Batch: 20293

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 797.2 80 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 928.5 mg/Kg 93 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: LCSD 880-20293/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA Prep Batch: 20293

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	821.5		mg/Kg		82	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1019		mg/Kg		102	70 - 130	9	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	· Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: 890-2004-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA Prep Batch: 20293

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1240		mg/Kg		124	70 - 130	
Diesel Range Organics (Over	<50.0	U	1000	1269		mg/Kg		127	70 - 130	

C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

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

80

Lab Sample ID: 890-2004-A-Matrix: Solid Analysis Batch: 20308	-1-F MSD					CI	ient Sa	ample IC		oike Dup Type: To Batch:	tal/NA
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1205		mg/Kg		121	70 - 130	3	20
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	998	1237		mg/Kg		124	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-20217/3-A

Lab Sample ID: 890-2003-5 MS

Matrix: Solid

o-Terphenyl

	Lab Sample ID: MB 880-20217/1-A						Client Sa	ample ID: Metho	d Blank
	Matrix: Solid							Prep Type:	Soluble
	Analysis Batch: 20409								
		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<5.00	U	5.00	mg/Kg			02/27/22 12:29	1
ſ									

70 - 130

Lab Sample ID: LCS 880-20217/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Soluble
Analysis Batch: 20409			
	Spike	LCS LCS	%Rec.

	Opike	LOS	LUU				/orvec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	252.6		mg/Kg		101	90 - 110	

Analysis Batch: 20409									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	252.6		mg/Kg		101	90 - 110	0	20

Matrix: Solid									Prep	Type: Soluble
Analysis Batch: 20409										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	365		253	614.6		mg/Kg		99	90 - 110	
 —										

Lab Sample ID: 890-2003-5 MSD Matrix: Solid Analysis Batch: 20409									Client Sar Prep	nple ID: Type: S	
,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	365		253	611.6		mg/Kg		97	90 - 110	1	20

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH09

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC VOA

Analysis Batch: 20453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	Total BTEX	
890-2003-2	BH07	Total/NA	Solid	Total BTEX	
890-2003-3	BH08	Total/NA	Solid	Total BTEX	
890-2003-4	BH08	Total/NA	Solid	Total BTEX	
890-2003-5	ВН09	Total/NA	Solid	Total BTEX	
890-2003-6	BH09	Total/NA	Solid	Total BTEX	
890-2003-7	BH10	Total/NA	Solid	Total BTEX	
890-2003-8	BH10	Total/NA	Solid	Total BTEX	
890-2003-9	BH11	Total/NA	Solid	Total BTEX	
890-2003-10	BH11	Total/NA	Solid	Total BTEX	

Prep Batch: 20526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	5035	<u> </u>
890-2003-6	BH09	Total/NA	Solid	5035	
890-2003-7	BH10	Total/NA	Solid	5035	
890-2003-8	BH10	Total/NA	Solid	5035	
890-2003-9	BH11	Total/NA	Solid	5035	
890-2003-10	BH11	Total/NA	Solid	5035	
MB 880-20526/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	8021B	20526
890-2003-6	BH09	Total/NA	Solid	8021B	20526
890-2003-7	BH10	Total/NA	Solid	8021B	20526
890-2003-8	BH10	Total/NA	Solid	8021B	20526
890-2003-9	BH11	Total/NA	Solid	8021B	20526
890-2003-10	BH11	Total/NA	Solid	8021B	20526
MB 880-20526/5-A	Method Blank	Total/NA	Solid	8021B	20526
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	8021B	20526
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20526
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	8021B	20526
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20526

Prep Batch: 20605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2003-1	BH07	Total/NA	Solid	5035	
890-2003-2	BH07	Total/NA	Solid	5035	
890-2003-3	BH08	Total/NA	Solid	5035	
890-2003-4	BH08	Total/NA	Solid	5035	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

GC VOA

Analysis Batch: 20710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8021B	20605
890-2003-2	BH07	Total/NA	Solid	8021B	20605
890-2003-3	BH08	Total/NA	Solid	8021B	20605
890-2003-4	BH08	Total/NA	Solid	8021B	20605
CB MB	Method Blank	Total/NA	Solid	8021B	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	8021B	20605
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	8021B	20605
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20605
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	20605
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20605

GC Semi VOA

Analysis Batch: 20195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015B NM	20253
890-2003-2	BH07	Total/NA	Solid	8015B NM	20253
890-2003-3	BH08	Total/NA	Solid	8015B NM	20253
890-2003-4	BH08	Total/NA	Solid	8015B NM	20253
890-2003-5	BH09	Total/NA	Solid	8015B NM	20253
890-2003-6	BH09	Total/NA	Solid	8015B NM	20253
890-2003-7	BH10	Total/NA	Solid	8015B NM	20253
890-2003-8	BH10	Total/NA	Solid	8015B NM	20253
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015B NM	20253
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20253
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20253
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	20253
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20253

Prep Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015NM Prep	
890-2003-2	BH07	Total/NA	Solid	8015NM Prep	
890-2003-3	BH08	Total/NA	Solid	8015NM Prep	
890-2003-4	BH08	Total/NA	Solid	8015NM Prep	
890-2003-5	BH09	Total/NA	Solid	8015NM Prep	
890-2003-6	BH09	Total/NA	Solid	8015NM Prep	
890-2003-7	BH10	Total/NA	Solid	8015NM Prep	
890-2003-8	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 20293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-9	BH11	Total/NA	Solid	8015NM Prep	
890-2003-10	BH11	Total/NA	Solid	8015NM Prep	
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC Semi VOA (Continued)

Prep Batch: 20293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-9	BH11	Total/NA	Solid	8015B NM	20293
890-2003-10	BH11	Total/NA	Solid	8015B NM	20293
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015B NM	20293
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20293
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20293
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	20293
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20293

Analysis Batch: 20341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015 NM	
890-2003-2	BH07	Total/NA	Solid	8015 NM	
890-2003-3	BH08	Total/NA	Solid	8015 NM	
890-2003-4	BH08	Total/NA	Solid	8015 NM	
890-2003-5	BH09	Total/NA	Solid	8015 NM	
890-2003-6	BH09	Total/NA	Solid	8015 NM	
890-2003-7	BH10	Total/NA	Solid	8015 NM	
890-2003-8	BH10	Total/NA	Solid	8015 NM	
890-2003-9	BH11	Total/NA	Solid	8015 NM	
890-2003-10	BH11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	DI Leach	
890-2003-2	BH07	Soluble	Solid	DI Leach	
890-2003-3	BH08	Soluble	Solid	DI Leach	
890-2003-4	BH08	Soluble	Solid	DI Leach	
890-2003-5	BH09	Soluble	Solid	DI Leach	
890-2003-6	BH09	Soluble	Solid	DI Leach	
890-2003-7	BH10	Soluble	Solid	DI Leach	
890-2003-8	BH10	Soluble	Solid	DI Leach	
890-2003-9	BH11	Soluble	Solid	DI Leach	
890-2003-10	BH11	Soluble	Solid	DI Leach	
MB 880-20217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2003-5 MS	BH09	Soluble	Solid	DI Leach	
890-2003-5 MSD	BH09	Soluble	Solid	DI Leach	

Analysis Batch: 20409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	300.0	20217
890-2003-2	BH07	Soluble	Solid	300.0	20217

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 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

HPLC/IC (Continued)

Analysis Batch: 20409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-3	BH08	Soluble	Solid	300.0	20217
890-2003-4	BH08	Soluble	Solid	300.0	20217
890-2003-5	BH09	Soluble	Solid	300.0	20217
890-2003-6	BH09	Soluble	Solid	300.0	20217
890-2003-7	BH10	Soluble	Solid	300.0	20217
890-2003-8	BH10	Soluble	Solid	300.0	20217
890-2003-9	BH11	Soluble	Solid	300.0	20217
890-2003-10	BH11	Soluble	Solid	300.0	20217
MB 880-20217/1-A	Method Blank	Soluble	Solid	300.0	20217
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	300.0	20217
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20217
890-2003-5 MS	BH09	Soluble	Solid	300.0	20217
890-2003-5 MSD	BH09	Soluble	Solid	300.0	20217

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07 Lab Sample ID: 890-2003-1

Date Collected: 02/18/22 10:45 Matrix: Solid Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:24	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55 Matrix: Solid Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 02:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:33	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-3

Date Collected: 02/18/22 11:00 **Matrix: Solid** Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:42	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-4

Date Collected: 02/18/22 11:10 **Matrix: Solid** Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH08

Lab Sample ID: 890-2003-4

Date Collected: 02/18/22 11:10

Matrix: Solid

Date Collected: 02/18/22 11:10

Date Received: 02/23/22 11:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:51	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2003-5

Date Collected: 02/18/22 12:30 Matrix: Solid

Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:59	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2003-6

Date Collected: 02/18/22 12:45 Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 05:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 15:26	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.01 g	10 mL	20253 20195	02/24/22 15:51 02/25/22 05:38	DM AJ	XEN MID XEN MID

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Matrix: Solid

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Matrix: Solid

Date Received: 02/23/22 11:26

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10 Date Collected: 02/18/22 13:05

Lab Sample ID: 890-2003-7

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 20217 Leach 5.01 g 50 mL 02/24/22 12:03 СН XEN MID 300.0 02/27/22 15:35 Soluble Analysis 1 20409 CH XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-8

Date Collected: 02/18/22 13:20 Matrix: Solid

Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		50			20409	02/27/22 16:01	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-9

Date Collected: 02/18/22 13:30 **Matrix: Solid** Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 16:10	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-10

Date Collected: 02/18/22 13:45 **Matrix: Solid** Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 16:19	CH	XEN MID

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Released to Imaging: 10/4/2022 11:58:47 AM

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2003-1 SDG: 31403360.03

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: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Laboratory: Eurofins Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	NELAP T104704400-21-22		06-30-22
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for wh
the agency does not of	fer certification.	•	3,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	, , ,	

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Method Summary

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Released to Imaging: 10/4/2022 11:58:47 AM

Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2003-1	BH07	Solid	02/18/22 10:45	02/23/22 11:26	0.5
890-2003-2	BH07	Solid	02/18/22 10:55	02/23/22 11:26	4
890-2003-3	BH08	Solid	02/18/22 11:00	02/23/22 11:26	0.5
890-2003-4	BH08	Solid	02/18/22 11:10	02/23/22 11:26	4
890-2003-5	BH09	Solid	02/18/22 12:30	02/23/22 11:26	0.5
890-2003-6	BH09	Solid	02/18/22 12:45	02/23/22 11:26	4
890-2003-7	BH10	Solid	02/18/22 13:05	02/23/22 11:26	0.5
890-2003-8	BH10	Solid	02/18/22 13:20	02/23/22 11:26	4
890-2003-9	BH11	Solid	02/18/22 13:30	02/23/22 11:26	0.5
890-2003-10	BH11	Solid	02/18/22 13:45	02/23/22 11:26	4

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Chain of Custody

Hobbs, NM (5 3360.03 755 755 Therma Correction Total Cont O2/18/22 10 02/18/22 10 02/18/22 11 02/18/22 12 02/18/22 12 02/18/22 13 02/18/22 13 02/18/22 13 02/18/22 13 02/18/22 13 02/18/22 13 02/18/20 13 8RCRA BRCRA BRCRA A not suuse av to each project and a charge to each project and	Revised Dale 051418 Rev 2018 1			-0-								
ADAPT SiO2 Na Sag					2	9		1	100 (v.			The state of the s
Ag SiO2 Na S			Relinquished by: (Signature)		te/Time	Da	ıre)	oy: (Signatı	Received I	7	(Signature)	Relinquished by
Heabs,NM (575-582755) Prinemin AZ (480-9500) Alama (A) (770-446-9500) Amap E (813-800-2600)		dard terms and conditions istances beyond the control previously negotlated.	lates and subcontractors. It assigns stan the client if such losses are due to circum zed. These terms will be enforced unless !	co, its affil ncurred by t not analys	any to Xer xpenses ii Xenco, bu	lient composes or e	rchase order from c sponsibility for any I for each sample su	utes a valid pur ssume any res a charge of \$5	samples constitues and shall not a sach project and	ishment of a st of sample applied to e	ocument and relinquiable only for the cos	otice: Signature of this of service. Xenco will be I Xenco. A minimum cha
Hobbs.NM (275-382-7550) Phoemix.XZ (480-585-0700) Alamin GA (770-449-8800) Tampa FL (818-820-2000) Work NO Ider Commission Work No Ider	1 Sr Tl Sn U V Zn 1/245.1/7470/7471:Hg	K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mod Cr Co Cu Pb Mn Mo Ni S	Be Be	As As		PM Texas 11 LP 6010: 8RC	ICRA 13F		020: to be an)10 200.8 / 6 (s) and Metal(s)	Total 200.7 / 60 Circle Method
Hobbs MM (575-980-7750) Phoenix AZ (480-555-0700) Allama (5A (770-449-9800) Tampa FL (810-820-2000) Mamma (5A (770-449-9800) Tampa FL (810-820-2000) Mamma (5A (770-449-9800) Tampa FL (810-820-2000) Mamma (5A (770-449-9800) Tampa FL (810-820-2000) Mamma (5A (770-449-9800) Tampa FL (810-820-2000) Mamma (5A (770-449-9800) Mamma (5A (770-449	Discrete			×	_	-	4_	13:45	2/18/2022	S		BH1
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			Houston, 1X (281) 240-4200 Dallas, 1X (214) 902-0300 Sail Ailloillo, 1X (210) 303-0054	2000	(412)	U Dallas,	1,1 X (281) 240-420	Housion				X

Work Order No:

Eurofins Carlsbad

Chain of Custody Record

Environment Testing America

Phone: 575-988-3199 Fax 575-988-3199															
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer, Jessica	ssica				Carrie	Camier Tracking No(s)	g No(s)			COC No: 890-639 1	
Client Contact: Shipping/Receiving	Phone.			E-Mail lessica.kramer@eurofinset.com	ner@eu	ofinset	com		State	State of Origin				Page: Page 1 of 2	
Company Eurofins Environment Testing South Centr				Accredi NELA	Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	uired (Si	e note):	Texas	ŀ					Job #: 890-2003-1	
^{Address.} 1211 W Florida Ave,	Due Date Requested 3/1/2022	0.					Analy	Analvsis Requested	gues	<u> </u>			1	ပ္ပ	des.
City Midland	TAT Requested (days):	ys)·					-	_				_			M - Hexane N - None
State Zip TX, 79701	I												ih#	D Nitric Acid E - NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO #)										Ė	R Na2S2O3 S H2SO4
Email	WO#			1-111-00-01-01										Š	U Acetone U-MCAA
Project Name:	Project #:			***************************************		X							ainer	K-EDTA L EDA	W pH 4-5 Z other (specify)
Site:	SSOW#:			***************************************		BTE							ont	Other:	
				TOTAL CONTRACTOR OF THE PARTY O		_Calc							ofc	Crie	
		æ	Sample Matrix Type (w=water S=solid, O=wastefoil,	eld Filtered	15MOD_NM/8	21B/6036FP_	tal_BTEX_GC 15MOD_Calc						ital Number		
Control of the Contro		X	Preservation Code:	X	edde dd	8					end .	4	X T	opecial II	Special instructions/Note.
вно7 (890-2003-1)	2/18/22	10 45 Mountain	Solid		×	×	×				in the	and and a	_	A STATE OF THE STA	
ВН07 (890-2003-2)	2/18/22	10 55 Mountain	Solid	D.	×	×	×					_	4		
внов (890-2003-3)	2/18/22	11 00	Solid	α.	×	×	×						٠.		
BH08 (890-2003-4)	2/18/22	11 10 Mountain	Solid	0	×	×	×						2267		
вноэ (890-2003-5)	2/18/22	12 30 Mountain	Solid		×	×	×						4		
ВН09 (890-2003-6)	2/18/22	12 45 Mountain	Solid		×	×	×						#\$ 1		
ВН10 (890-2003-7)	2/18/22	13 05 Mountain	Solid		×	×	×						[کم		
BH10 (890-2003-8)	2/18/22	13 20 Mountain	Solid	0.	×	×	×						3487		
ВН11 (890-2003-9)	2/18/22	13 30 Mountain	Solid	۵	×	×	×						ابعد		
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/hests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alternation 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.	int Testing South Centra bove for analysis/tests/ entral LLC attention im	al, LLC places th matrix being and mediately If all	ne ownership of metho alyzed the samples m requested accreditation	d analyte & ad ust be shipped are current	ccreditation back to th to date, re	complia e Eurofir	nce upon is Environ signed Ch	out subco ment Test ain of Cus	ntract lating South	oratorie Centra sting to	s This s ILLCla said com	ample s coratory	hipmen or other to Euro	t is forwarded under c r instructions will be p ofins Environment Tes	chain-of-custody If the rovided. Any changes to sting South Central LLC.
Possible Hazard Identification				Sa	Sample Disposal (A	sposal	(A fee	may be	asses	sed if	sampl	s are	retain	fee may be assessed if samples are retained longer than 1 month)	1 month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2		Sp	Special Instructions/Q	al Instructions/QC	s/QC R	C Requirements	ents	ents				9	moinio
Empty Kit Relinquished by:		Date		Time		7	_			Method	Method of Shipment:	ent.	ı		
Refinalished by MM MM S.28-32	Date/Time·		Company		Receive		ロ ロ				Date	Date/Time:	الع	6.6	Company
	Date/Time:		Company		Received by	\$					Date	Date/Time:			Company
Relinquished by	Date/Time:		Company		Received by:	by					Date	Date/Time:			Company
Custody Seals Intact: Custody Seal No					Cooler T	Cooler Temperature(s)	റ്	and Other Remarks.	Remarks		ł				

Carlsbad, NM 88220

Eurofins Carlsbad 1089 N Canal St

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Chain of Custody Record

Environment Testing
America

Project Name. RDU 11 State, Zip: T**X** 79701 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 aboratory does not currently maintain accreditation in the State of Origin isted above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC aboratory 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. BH11 (890-2003-10) Sample Identification - Client ID (Lab ID) Midland Eurofins Environment Testing South Centre Client Information (Sub Contract Lab Phone 575-988-3199 Fax 575-988-3199 elinquished by Relinquished by elinquished by: Deliverable Requested | II III, IV, Other (specify) ossible Hazard Identification 1211 W Florida Ave, Shipping/Receiving impty Kit Relinquished by 132-704-5440(Tel) nconfirmed 1885 B 999 Custody Seal No Primary Deliverable Rank 89000048 Due Date Requested 3/1/2022 Phone: Sampler Date/Time PO#: TAT Requested (days): **^**0# Sample Date 2/18/22 Time Date Mountair Sample 13 45 (C=comp, G=grab) Sample Type Preservation Code Company Company Company Matrix Solid Kramer, Jessica essica kramer@eurofinset.com Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by × 8015MOD_NM/8015NM_S_Prep Full TPH × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6035FP_Calc BTEX × Total_BTEX_GCV Analysis Requested 8015MOD_Calc × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipmen Date/Time Total Number of containers A - HCL
B NaOH
C-Zn Acetate
D Nitric Acid
E-NaHSO4
F-MoOH
G-Amchior
H Ascorbic Acid
I-loe
J Di Water
K-EDTA
L EDA COC No 890-639 2 Preservation Codes 890-2003-1 Page 2 of 2 Special Instructions/Note M Hexane
N-None
O AsNaO2
P-Na2O4S
Q Na2SO3
R Na2SC3
S H2SO4
T TSP Dodecalyydrate
U - Acetone
V MCAA
W pH 4-5
Z other (specify) Ver: 06/08/2021 Company Company Months

Login Sample Receipt Checklist

 Client: WSP USA Inc.
 Job Number: 890-2003-1

 SDG Number: 31403360.03

List Source: Eurofins Carlsbad

Login Number: 2003 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

Job Number: 890-2003-1 SDG Number: 31403360.03

3DG Nulliber: 31403300:03

List Source: Eurofins Midland List Creation: 02/24/22 12:49 PM

List Number: 2 Creator: Teel, Brianna

Client: WSP USA Inc.

Login Number: 2003

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	

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2030-1

Laboratory Sample Delivery Group: 31403360.031

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

J. WAMER

Authorized for release by: 3/7/2022 9:27:48 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 10/4/2022 11:58:47 AM

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

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

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-2030-1

SDG: 31403360.031

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Sample Summary	29
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Qualifiers

GC VOA	
Qualifier	

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

GC Semi VOA

Qualifier	Qualifier Description
-----------	-----------------------

Indicates the analyte was analyzed for but not detected.

HPLC/IC

iption

Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Decision Level Concentration (Radiochemistry)

Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Job ID: 890-2030-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2030-1

Receipt

The samples were received on 3/1/2022 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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

GC Semi VOA

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

HPI C/IC

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

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Eurofins Carlsbad 3/7/2022

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH12

Lab Sample ID: 890-2030-1 Date Collected: 02/28/22 10:30 Date Received: 03/01/22 08:50

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/06/22 11:15	03/06/22 16:21	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/06/22 11:15	03/06/22 16:21	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DB)	0) (60)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
Analyte	, ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/02/22 08:11	03/03/22 02:31	1
o-Terphenyl	104		70 - 130				03/02/22 08:11	03/03/22 02:31	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH12 Lab Sample ID: 890-2030-2

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	9	S1-	70 - 130				03/06/22 11:15	03/06/22 16:48	1

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Matrix: Solid

Lab Sample ID: 890-2030-2

03/02/22 08:11

03/03/22 03:34

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH12

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Sample Depth: 4

Method: 8021B - Volati	le Organic Comp	ounds (GC)	(Continued)
modifical coaling foliati	io organio comp	,0000	(Continuou,

Surrogate		Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	03/06/22 11:15	03/06/22 16:48	1

Method:	Total BTFX	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IOIGI DIEX	Oulculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			_	03/07/22 21:30	1

ı					
ı	Method: 8015 NM - Γ	ligeal Range (Irganice	(DRO) (G	C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1

Method: 8015B NI	M - Diesel Range	Organics (F	RO) (GC)
Method, ourse M	vi - Diesei Kaliye	Organics (L	iko) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	99	 70 - 130
o-Terphenyl	103	70 - 130

o-Terphenyl	103	70 - 130	03/02/22 08:11	03/03/22 03:34	1
Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble				

Analyte Result Qualifier

Analyte	Result	Qualifier	KL	MDL U	nit	υ	Prepared	Analyzeu	DII Fac	
Chloride	1360		25.0	m	ng/Kg			03/05/22 16:06	5	

Client Sample ID: BH13

Date Collected: 02/28/22 11:20

Lab Sample ID: 890-2030-3

Matrix: Solid

Date Received: 03/01/22 08:50

Sample Depth: 2

		()							
Analyte	Result	Qualifier	RL	MDL Unit	it	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/	/Kg	_	03/06/22 11:15	03/06/22 17:15	1
Toluene	<0.00198	U	0.00198	mg/	/Kg		03/06/22 11:15	03/06/22 17:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/	/Kg		03/06/22 11:15	03/06/22 17:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/	/Kg		03/06/22 11:15	03/06/22 17:15	1
o-Xylene	<0.00198	U	0.00198	mg/	/Kg		03/06/22 11:15	03/06/22 17:15	1
Xylenes, Total	<0.00397	U	0.00397	mg/	/Kg		03/06/22 11:15	03/06/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/06/22 11:15	03/06/22 17:15	1
1,4-Difluorobenzene (Surr)	118		70 - 130				03/06/22 11:15	03/06/22 17:15	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	03/07/22 21:30	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9		mg/Kg	 		03/03/22 12:29	1

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IU

Lab Sample ID: 890-2030-3

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 03:55	1
o-Terphenyl	112		70 - 130				03/02/22 08:11	03/03/22 03:55	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4430		49.7		mg/Kg			03/05/22 16:18	10

Client Sample ID: BH13 Lab Sample ID: 890-2030-4 Date Collected: 02/28/22 11:25 Matrix: Solid

Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8	S1-	70 - 130				03/06/22 11:15	03/06/22 17:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 17:41	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/02/22 08:11	03/03/22 04:15	1
o-Terphenyl	97		70 - 130				03/02/22 08:11	03/03/22 04:15	1

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3/7/2022

Lab Sample ID: 890-2030-4

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13

Date Collected: 02/28/22 11:25 Date Received: 03/01/22 08:50

Sample Depth: 4

١	Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	7260		49.8		mg/Kg			03/05/22 16:30	10	

Client Sample ID: BH14 Lab Sample ID: 890-2030-5 Matrix: Solid

Date Collected: 02/28/22 11:30 Date Received: 03/01/22 08:50

Method: 8021B - Volatile Organic	Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		70 - 130				03/06/22 11:15	03/06/22 18:08	
1,4-Difluorobenzene (Surr)	116		70 - 130				03/06/22 11:15	03/06/22 18:08	
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/07/22 21:30	
Analyte Total TPH	Result < 50.0	Qualifier U		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	Dil Fa
			30.0		mg/itg			05/05/22 12.23	
Method: 8015B NM - Diesel Rang Analyte	•	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
	104		70 - 130				03/02/22 08:11	03/03/22 04:36	
	104								
1-Chlorooctane	106		70 - 130				03/02/22 08:11	03/03/22 04:36	
1-Chloroctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	106	Soluble	70 - 130				03/02/22 08:11	03/03/22 04:36	1
1-Chlorooctane o-Terphenyl	106 omatography -	Soluble Qualifier	70 ₋ 130 RL	MDL	Unit	D	03/02/22 08:11 Prepared	03/03/22 04:36 Analyzed	Dil Fac

Lab Sample ID: 890-2030-6

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH14

Date Collected: 02/28/22 11:35 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 18:35	1
1,4-Difluorobenzene (Surr)	119		70 - 130				03/06/22 11:15	03/06/22 18:35	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/22 21:30	1
		O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result < 50.0	Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	
<u> </u>	<50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier				<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang	<50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	03/03/22 12:29	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	03/03/22 12:29 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Digital Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (Digital Result <50.0 <50.0 <50.0 %Recovery	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 03/03/22 04:57 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 *Recovery 118 120	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 118 120 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	1 1 <i>Dil Fac</i>

Client Sample ID: BH15 Lab Sample ID: 890-2030-7 Date Collected: 02/28/22 11:40

Date Received: 03/01/22 08:50

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				03/06/22 11:15	03/06/22 19:02	1

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Matrix: Solid

Lab Sample ID: 890-2030-7

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:40 Date Received: 03/01/22 08:50

Sample Depth: 0.5

Method: 8021B - \	Jolatile Organic	Compounds	(GC) (Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	03/06/22 11:15	03/06/22 19:02	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/22 21:30	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1

Method: 8015B NM - Diese	I Range Organics	(DRO)	(GC)
moundar of ros run Sido	tungo organioo	()	1/

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	70Necovery	Qualifier	Lillia		rrepareu	Allalyzeu
1-Chlorooctane	97		70 - 130	03	3/02/22 08:11	03/03/22 05:18
o-Terphenyl	99		70 - 130	03	3/02/22 08:11	03/03/22 05:18
_						

Method: 300.0	- Anions, I	ion Chr	omatograpi	ny - Soluble

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.5		5.00		mg/Kg			03/05/22 17:05	1

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (C	GC))
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moniour cozi z		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/06/22 11:15	03/06/22 20:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/06/22 11:15	03/06/22 20:48	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka			03/07/22 21:30	1

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			03/03/22 12:29	1

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Matrix: Solid

Lab Sample ID: 890-2030-8

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 05:38	1
o-Terphenyl	111		70 - 130				03/02/22 08:11	03/03/22 05:38	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Metriou. 300.0 - Ariions, ion Cint	Ja.cog. upj								
Analyte	0.,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH16

Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20

Matrix: Solid

Date Received: 03/01/22 08:50

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/06/22 11:15	03/06/22 21:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/22 11:15	03/06/22 21:15	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	1
Total BTEX Method: 8015 NM - Diesel Range			0.00403		mg/Kg			03/07/22 21:30	1
- -	Organics (DR		0.00403 RL	MDL	mg/Kg Unit	D	Prepared	03/07/22 21:30 Analyzed	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		D	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	Organics (DR/Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result <50.0 e Organics (DI)	O) (GC) Qualifier	RL		Unit	D_	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR) Result <50.0 e Organics (DI)	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 03/03/22 12:29	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/02/22 08:11	Analyzed 03/03/22 12:29 Analyzed 03/03/22 05:59	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result <50.0	Qualifier U RO) (GC) Qualifier U			Unit mg/Kg Unit		Prepared	Analyzed 03/03/22 12:29 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/02/22 08:11	Analyzed 03/03/22 12:29 Analyzed 03/03/22 05:59	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0 <p>< 50.0</p>	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	Analyzed 03/03/22 12:29 Analyzed 03/03/22 05:59 03/03/22 05:59	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR/Result < 50.0 Result < 50.0 Result < 50.0 Color	Qualifier U RO) (GC) Qualifier U U U U	RL 50.0 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/02/22 08:11 03/02/22 08:11	Analyzed 03/03/22 12:29 Analyzed 03/03/22 05:59 03/03/22 05:59 03/03/22 05:59	Dil Fac

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Job ID: 890-2030-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH16 Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20 Matrix: Solid Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		24.8		mg/Kg			03/05/22 17:53	5

Client Sample ID: BH16 Lab Sample ID: 890-2030-10 Matrix: Solid

Date Collected: 02/28/22 13:25

Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				03/06/22 11:15	03/06/22 21:42	
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 21:42	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0		mg/Kg	_ <u>-</u>		03/03/22 12:29	
					0 0				
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/02/22 08:11	03/03/22 06:19	1
o-Terphenyl	106		70 - 130				03/02/22 08:11	03/03/22 06:19	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4650		50.1		mg/Kg			03/05/22 18:28	10

Lab Sample ID: 890-2030-11

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH17

Date Collected: 02/28/22 14:15 Date Received: 03/01/22 08:50

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	•
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	•
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/22 11:15	03/06/22 22:09	
1,4-Difluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 22:09	
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	
Total TPH	<49.9	U	49.9		mg/Kg			03/03/22 12:29	
Total TPH - -	<49.9	U	49.9		mg/Kg			03/03/22 12:29	,
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	,
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130				03/02/22 08:11	03/03/22 07:01	-
o-Terphenyl	97		70 - 130				03/02/22 08:11	03/03/22 07:01	:
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method. 300.0 - Amons, fon Chir	omatograpity -	Colubic							
Analyte	0.,	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH17

Date Collected: 02/28/22 14:20 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/22 11:15	03/06/22 22:36	1

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Matrix: Solid

Lab Sample ID: 890-2030-12

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Lab Sample ID: 890-2030-12

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH17

Date Collected: 02/28/22 14:20 Date Received: 03/01/22 08:50

Analyte

Chloride

Method: 8021B - Volatile Organic	o compoundo (55) (55)							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 22:36	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
_	•	, , ,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0		RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/03/22 12:29	Dil Fac
<u> </u>	<50.0	U		MDL	mg/Kg	D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	CO) (GC) Qualifier	50.0		mg/Kg	_ =		03/03/22 12:29	Dil Fac Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (DI Result	O (GC) Qualifier U	50.0		mg/Kg	_ =	Prepared	03/03/22 12:29 Analyzed	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (DI Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	_ =	Prepared 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:21	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (DI Result <50.0 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:21 03/03/22 07:21	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang	<50.0 ge Organics (Di Result <50.0 <50.0 <50.0	Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/02/22 08:11 03/02/22 08:11	03/03/22 12:29 Analyzed 03/03/22 07:21 03/03/22 07:21 03/03/22 07:21	1 Dil Fac

100

MDL Unit

mg/Kg

Prepared

Analyzed

03/05/22 18:52

Dil Fac

Result Qualifier

8280

Surrogate Summary

Job ID: 890-2030-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11719-A-1-J MS	Matrix Spike	89	123	
880-11719-A-1-K MSD	Matrix Spike Duplicate	94	124	
890-2030-1	BH12	101	114	
890-2030-2	BH12	9 S1-	101	
890-2030-3	BH13	102	118	
890-2030-4	BH13	8 S1-	108	
890-2030-5	BH14	87	116	
890-2030-6	BH14	106	119	
890-2030-7	BH15	170 S1+	85	
890-2030-8	BH15	94	110	
890-2030-9	BH16	83	105	
890-2030-10	BH16	89	108	
890-2030-11	BH17	99	106	
890-2030-12	BH17	101	108	
LCS 880-20687/1-A	Lab Control Sample	82	116	
LCSD 880-20687/2-A	Lab Control Sample Dup	84	111	
LUSD 660-2006772-A			108	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
ah Oamula ID	Olient Comple ID	(70-130)	(70-130)	
Lab Sample ID	Client Sample ID			· ——— ·—— ·—— ·—— ·——
390-2030-1	BH12	100	104	
890-2030-1 MS	BH12	94	100	
890-2030-1 MSD	BH12	99	95	
390-2030-2	BH12	99	103	
390-2030-3	BH13	108	112	
390-2030-4	BH13	95	97	
390-2030-5	BH14	104	106	
390-2030-6	BH14	118	120	
390-2030-7	BH15	97	99	
390-2030-8	BH15	108	111	
390-2030-9	BH16	93	92	
390-2030-10	BH16	105	106	
390-2030-11	BH17	96	97	
390-2030-12	BH17	99	103	
LCS 880-20658/2-A	Lab Control Sample	107	106	
LCSD 880-20658/3-A	Lab Control Sample Dup	106	105	
MB 880-20658/1-A	Method Blank	112	117	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20687/5-A

Matrix: Solid Analysis Batch: 20977 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20687

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	03/06/22 11:15	03/06/22 14:35	1
1.4-Difluorobenzene (Surr)	108		70 - 130	03/06/22 11:15	03/06/22 14:35	1

Lab Sample ID: LCS 880-20687/1-A

Matrix: Solid

Analysis Batch: 20977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20687

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08533		mg/Kg		85	70 - 130	
Toluene	0.100	0.08536		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09079		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09200		mg/Kg		92	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Lab Sample ID: LCSD 880-20687/2-A

Matrix: Solid

Analysis Batch: 20977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20687

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09073		mg/Kg		91	70 - 130	6	35
Toluene	0.100	0.08702		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.09419		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09334		mg/Kg		93	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1 4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-11719-A-1-J MS

Matrix: Solid

Analysis Batch: 20977

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

Prep Batch: 20687

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1035		mg/Kg	_	104	70 - 130	
Toluene	< 0.00199	U	0.0998	0.09757		mg/Kg		98	70 - 130	

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Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

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

Lab Sample ID: 880-11719-A-1-J MS

Lab Sample ID: 880-11719-A-1-K MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 20977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20687

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene <0	.00199	U	0.0998	0.1035		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene <0	.00398	U	0.200	0.2115		mg/Kg		106	70 - 130	
o-Xylene <0	.00199	U	0.0998	0.1057		mg/Kg		106	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20687

Analysis Batch: 20977									Prep	Batch:	20687
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.1073		mg/Kg		106	70 - 130	4	35
Toluene	<0.00199	U	0.101	0.1009		mg/Kg		100	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.101	0.1083		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2216		mg/Kg		110	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1086		mg/Kg		107	70 - 130	3	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

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

Lab Sample ID: MB 880-20658/1-A

Matrix: Solid

Analysis Batch: 20655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20658

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 01:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/02/22	2 08:11	03/03/22 01:28	1
o-Terphenyl	117		70 - 130	03/02/22	2 08:11	03/03/22 01:28	1

Lab Sample ID: LCS 880-20658/2-A

Matrix: Solid

Analysis Batch: 20655

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

Prep Batch: 20658

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	930.2		mg/Kg		93	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	852.2		mg/Kg		85	70 _ 130	
C10-C28)								

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

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

LCS LCS

Lab Sample ID: LCS 880-20658/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 20655

Prep Type: Total/NA

Prep Batch: 20658

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 106 70 - 130

Lab Sample ID: LCSD 880-20658/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20655

Prep Type: Total/NA

Prep Batch: 20658

%Rec. RPD Limits **RPD** Limit

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec 1000 971.8 97 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 874.2 87 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 106 70 - 130 1-Chlorooctane 105 70 - 130 o-Terphenyl

Lab Sample ID: 890-2030-1 MS Client Sample ID: BH12 Matrix: Solid

MS MS

1077

943.7

Result Qualifier

Unit

mg/Kg

mg/Kg

D

94

Spike

Added

1000

1000

Analysis Batch: 20655

Gasoline Range Organics

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 20658

%Rec Limits 105 70 - 130

70 - 130

C10-C28)

(GRO)-C6-C10

Analyte

MS MS

<50.0 U

<50.0 U

Sample Sample

Result Qualifier

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 94 o-Terphenyl 100 70 - 130

Lab Sample ID: 890-2030-1 MSD Client Sample ID: BH12

Matrix: Solid

Analysis Batch: 20655

Prep Type: Total/NA

Prep Batch: 20658 RPD

Sample Sample MSD MSD Spike %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U 998 1086 106 20 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 910.9 mg/Kg 91 70 - 130 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH15

Client Sample ID: BH15

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20681/1-A

Matrix: Solid

Analysis Batch: 20963

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 MDL mg/Kg
 Unit
 D mg/Kg
 Prepared Dil Fac 03/05/22 13:14
 Dil Fac 03/05/22 13:14

Lab Sample ID: LCS 880-20681/2-A

Matrix: Solid

Analysis Batch: 20963

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.8 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-20681/3-A

Matrix: Solid

Analysis Batch: 20963

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 257.4 mg/Kg 103 90 - 110

Lab Sample ID: 890-2030-7 MS

Matrix: Solid

Analysis Batch: 20963

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 316.5 Chloride 77.5 250 96 90 - 110 mg/Kg

Lab Sample ID: 890-2030-7 MSD

Matrix: Solid

Analysis Batch: 20963

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 77.5 321.4 mg/Kg 98 90 - 110 20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC VOA

Prep Batch: 20687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	5035	
890-2030-2	BH12	Total/NA	Solid	5035	
890-2030-3	BH13	Total/NA	Solid	5035	
890-2030-4	BH13	Total/NA	Solid	5035	
890-2030-5	BH14	Total/NA	Solid	5035	
890-2030-6	BH14	Total/NA	Solid	5035	
890-2030-7	BH15	Total/NA	Solid	5035	
890-2030-8	BH15	Total/NA	Solid	5035	
890-2030-9	BH16	Total/NA	Solid	5035	
890-2030-10	BH16	Total/NA	Solid	5035	
890-2030-11	BH17	Total/NA	Solid	5035	
890-2030-12	BH17	Total/NA	Solid	5035	
MB 880-20687/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8021B	20687
890-2030-2	BH12	Total/NA	Solid	8021B	20687
890-2030-3	BH13	Total/NA	Solid	8021B	20687
890-2030-4	BH13	Total/NA	Solid	8021B	20687
890-2030-5	BH14	Total/NA	Solid	8021B	20687
890-2030-6	BH14	Total/NA	Solid	8021B	20687
890-2030-7	BH15	Total/NA	Solid	8021B	20687
890-2030-8	BH15	Total/NA	Solid	8021B	20687
890-2030-9	BH16	Total/NA	Solid	8021B	20687
890-2030-10	BH16	Total/NA	Solid	8021B	20687
890-2030-11	BH17	Total/NA	Solid	8021B	20687
890-2030-12	BH17	Total/NA	Solid	8021B	20687
MB 880-20687/5-A	Method Blank	Total/NA	Solid	8021B	20687
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	8021B	20687
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20687
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	20687
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20687

Analysis Batch: 21059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	Total BTEX	
890-2030-2	BH12	Total/NA	Solid	Total BTEX	
890-2030-3	BH13	Total/NA	Solid	Total BTEX	
890-2030-4	BH13	Total/NA	Solid	Total BTEX	
890-2030-5	BH14	Total/NA	Solid	Total BTEX	
890-2030-6	BH14	Total/NA	Solid	Total BTEX	
890-2030-7	BH15	Total/NA	Solid	Total BTEX	
890-2030-8	BH15	Total/NA	Solid	Total BTEX	
890-2030-9	BH16	Total/NA	Solid	Total BTEX	
890-2030-10	BH16	Total/NA	Solid	Total BTEX	
890-2030-11	BH17	Total/NA	Solid	Total BTEX	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC VOA (Continued)

Analysis Batch: 21059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-12	BH17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 20655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015B NM	20658
890-2030-2	BH12	Total/NA	Solid	8015B NM	20658
890-2030-3	BH13	Total/NA	Solid	8015B NM	20658
890-2030-4	BH13	Total/NA	Solid	8015B NM	20658
890-2030-5	BH14	Total/NA	Solid	8015B NM	20658
890-2030-6	BH14	Total/NA	Solid	8015B NM	20658
890-2030-7	BH15	Total/NA	Solid	8015B NM	20658
890-2030-8	BH15	Total/NA	Solid	8015B NM	20658
890-2030-9	BH16	Total/NA	Solid	8015B NM	20658
890-2030-10	BH16	Total/NA	Solid	8015B NM	20658
890-2030-11	BH17	Total/NA	Solid	8015B NM	20658
890-2030-12	BH17	Total/NA	Solid	8015B NM	20658
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015B NM	20658
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20658
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20658
890-2030-1 MS	BH12	Total/NA	Solid	8015B NM	20658
890-2030-1 MSD	BH12	Total/NA	Solid	8015B NM	20658

Prep Batch: 20658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2030-1	BH12	Total/NA	Solid	8015NM Prep	
890-2030-2	BH12	Total/NA	Solid	8015NM Prep	
890-2030-3	BH13	Total/NA	Solid	8015NM Prep	
890-2030-4	BH13	Total/NA	Solid	8015NM Prep	
890-2030-5	BH14	Total/NA	Solid	8015NM Prep	
890-2030-6	BH14	Total/NA	Solid	8015NM Prep	
890-2030-7	BH15	Total/NA	Solid	8015NM Prep	
890-2030-8	BH15	Total/NA	Solid	8015NM Prep	
890-2030-9	BH16	Total/NA	Solid	8015NM Prep	
890-2030-10	BH16	Total/NA	Solid	8015NM Prep	
890-2030-11	BH17	Total/NA	Solid	8015NM Prep	
890-2030-12	BH17	Total/NA	Solid	8015NM Prep	
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2030-1 MS	BH12	Total/NA	Solid	8015NM Prep	
890-2030-1 MSD	BH12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015 NM	
890-2030-2	BH12	Total/NA	Solid	8015 NM	
890-2030-3	BH13	Total/NA	Solid	8015 NM	
890-2030-4	BH13	Total/NA	Solid	8015 NM	
890-2030-5	BH14	Total/NA	Solid	8015 NM	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC Semi VOA (Continued)

Analysis Batch: 20812 (Continued)

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
BH14	Total/NA	Solid	8015 NM	
BH15	Total/NA	Solid	8015 NM	
BH15	Total/NA	Solid	8015 NM	
BH16	Total/NA	Solid	8015 NM	
BH16	Total/NA	Solid	8015 NM	
BH17	Total/NA	Solid	8015 NM	
BH17	Total/NA	Solid	8015 NM	
	BH14 BH15 BH15 BH16 BH16 BH17	BH14 Total/NA BH15 Total/NA BH15 Total/NA BH16 Total/NA BH16 Total/NA BH17 Total/NA	BH14 Total/NA Solid BH15 Total/NA Solid BH15 Total/NA Solid BH16 Total/NA Solid BH16 Total/NA Solid BH17 Total/NA Solid	BH14 Total/NA Solid 8015 NM BH15 Total/NA Solid 8015 NM BH15 Total/NA Solid 8015 NM BH16 Total/NA Solid 8015 NM BH16 Total/NA Solid 8015 NM BH17 Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 20681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	DI Leach	_
890-2030-2	BH12	Soluble	Solid	DI Leach	
890-2030-3	BH13	Soluble	Solid	DI Leach	
890-2030-4	BH13	Soluble	Solid	DI Leach	
890-2030-5	BH14	Soluble	Solid	DI Leach	
890-2030-6	BH14	Soluble	Solid	DI Leach	
890-2030-7	BH15	Soluble	Solid	DI Leach	
890-2030-8	BH15	Soluble	Solid	DI Leach	
890-2030-9	BH16	Soluble	Solid	DI Leach	
890-2030-10	BH16	Soluble	Solid	DI Leach	
890-2030-11	BH17	Soluble	Solid	DI Leach	
890-2030-12	BH17	Soluble	Solid	DI Leach	
MB 880-20681/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2030-7 MS	BH15	Soluble	Solid	DI Leach	
890-2030-7 MSD	BH15	Soluble	Solid	DI Leach	

Analysis Batch: 20963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	300.0	20681
890-2030-2	BH12	Soluble	Solid	300.0	20681
890-2030-3	BH13	Soluble	Solid	300.0	20681
890-2030-4	BH13	Soluble	Solid	300.0	20681
890-2030-5	BH14	Soluble	Solid	300.0	20681
890-2030-6	BH14	Soluble	Solid	300.0	20681
890-2030-7	BH15	Soluble	Solid	300.0	20681
890-2030-8	BH15	Soluble	Solid	300.0	20681
890-2030-9	BH16	Soluble	Solid	300.0	20681
890-2030-10	BH16	Soluble	Solid	300.0	20681
890-2030-11	BH17	Soluble	Solid	300.0	20681
890-2030-12	BH17	Soluble	Solid	300.0	20681
MB 880-20681/1-A	Method Blank	Soluble	Solid	300.0	20681
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	300.0	20681
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20681
890-2030-7 MS	BH15	Soluble	Solid	300.0	20681
890-2030-7 MSD	BH15	Soluble	Solid	300.0	20681

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SDG: 31403360.031

Client Sample ID: BH12

Client: WSP USA Inc.

Project/Site: RDU 11

Date Collected: 02/28/22 10:30 Date Received: 03/01/22 08:50 Lab Sample ID: 890-2030-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 15:30	SC	XEN MID

Client Sample ID: BH12 Lab Sample ID: 890-2030-2

Date Collected: 02/28/22 10:33

Date Received: 03/01/22 08:50

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 16:06	SC	XEN MID

Client Sample ID: BH13

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Lab S	Sample	ID:	890-	2030-3
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:18	SC	XEN MID

Client Sample ID: BH13

Date Collected: 02/28/22 11:25

Date Received: 03/01/22 08:50

Lab Sample	ID:	890-2030-4
		Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID

Total/NA

Soluble

Soluble

Analysis

Analysis

Leach

8015B NM

DI Leach

300.0

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13 Lab Sample ID: 890-2030-4

Date Collected: 02/28/22 11:25 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:30	SC	XEN MID

Client Sample ID: BH14 Lab Sample ID: 890-2030-5

Date Collected: 02/28/22 11:30 **Matrix: Solid** Date Received: 03/01/22 08:50

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Amount Amount Number or Analyzed Run Factor Analyst Lab 20687 XEN MID Total/NA 5035 Prep 4.95 g 5 mL 03/06/22 11:15 KL Total/NA Analysis 8021B 5 mL 5 mL 20977 03/06/22 18:08 KL XEN MID 1 Total/NA Total BTEX 03/07/22 21:30 XEN MID Analysis 1 21059 AJ Total/NA Analysis 8015 NM 20812 03/03/22 12:29 XEN MID ΑJ XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 20658 03/02/22 08:11 DM

Client Sample ID: BH14 Lab Sample ID: 890-2030-6

1

Date Collected: 02/28/22 11:35 **Matrix: Solid** Date Received: 03/01/22 08:50

5 g

20655

20681

20963

50 mL

03/03/22 04:36

03/02/22 10:50

03/05/22 16:41

AJ

CH

SC

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 16:53	SC	XEN MID

Client Sample ID: BH15 Lab Sample ID: 890-2030-7

Date Collected: 02/28/22 11:40 **Matrix: Solid** Date Received: 03/01/22 08:50

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			4.97 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 19:02	KL	XEN MID
Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Prep	8015NM Prep		1	10.00 g	10 mL	20658	03/02/22 08:11 03/03/22 05:18	DM AJ	XEN MID
	Type Prep Analysis Analysis Analysis Prep	Type Method Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Factor Prep 5035 Factor Analysis 8021B 1 Analysis Total BTEX 1 Analysis 8015 NM 1 Prep 8015NM Prep	Type Method Run Factor Amount Prep 5035 4.97 g Analysis 8021B 1 5 mL Analysis Total BTEX 1 1 Analysis 8015 NM 1 1	Type Method Run Factor Amount Amount Prep 5035 4.97 g 5 mL Analysis 8021B 1 5 mL 5 mL Analysis Total BTEX 1	Type Method Run Factor Amount Amount Number Prep 5035 4.97 g 5 mL 20687 Analysis 8021B 1 5 mL 5 mL 20977 Analysis Total BTEX 1 21059 Analysis 8015 NM 1 20812 Prep 8015 NM Prep 10.00 g 10 mL 20658	Type Method Run Factor Amount Amount Number or Analyzed Prep 5035 4.97 g 5 mL 20687 03/06/22 11:15 Analysis 8021B 1 5 mL 5 mL 20977 03/06/22 19:02 Analysis Total BTEX 1 21059 03/07/22 21:30 Analysis 8015 NM 1 20812 03/03/22 12:29 Prep 8015 NM Prep 10.00 g 10 mL 20658 03/02/22 08:11	Type Method Run Factor Amount Amount Number or Analyzed Analyst Prep 5035 4.97 g 5 mL 20687 03/06/22 11:15 KL Analysis 8021B 1 5 mL 5 mL 20977 03/06/22 19:02 KL Analysis Total BTEX 1 21059 03/07/22 21:30 AJ Analysis 8015 NM 1 20812 03/03/22 12:29 AJ Prep 8015 NM Prep 10.00 g 10 mL 20658 03/02/22 08:11 DM

Eurofins Carlsbad

XEN MID

XEN MID

XEN MID

Date Received: 03/01/22 08:50

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH15 Lab Sample ID: 890-2030-7 Date Collected: 02/28/22 11:40

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 17:05	SC	XEN MID

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 **Matrix: Solid**

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 20:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 17:41	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 17:53	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-10

Date Collected: 02/28/22 13:25 Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 06:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 18:28	SC	XEN MID

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Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH17

Date Received: 03/01/22 08:50

Lab Sample ID: 890-2030-11 Date Collected: 02/28/22 14:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 18:40	SC	XEN MID

Client Sample ID: BH17 Lab Sample ID: 890-2030-12

Date Collected: 02/28/22 14:20 Matrix: Solid

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		20			20963	03/05/22 18:52	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Laboratory: Eurofins Midland

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

uthority		ogram	Identification Number	Expiration Date 06-30-22	
Texas	NELAP		T104704400-21-22		
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y	
the agency does not of	' '	t the laboratory to not corum	ed by the governing additionty. This list the	ay include analytes for v	
the agency does not of Analysis Method	' '	Matrix	Analyte	y include analytes for v	
9 ,	fer certification.	•	, , ,		

Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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12

14

Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2030-1

SDG: 31403360.031

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2030-1	BH12	Solid	02/28/22 10:30	03/01/22 08:50	2
890-2030-2	BH12	Solid	02/28/22 10:33	03/01/22 08:50	4
890-2030-3	BH13	Solid	02/28/22 11:20	03/01/22 08:50	2
890-2030-4	BH13	Solid	02/28/22 11:25	03/01/22 08:50	4
890-2030-5	BH14	Solid	02/28/22 11:30	03/01/22 08:50	0.5
890-2030-6	BH14	Solid	02/28/22 11:35	03/01/22 08:50	4
890-2030-7	BH15	Solid	02/28/22 11:40	03/01/22 08:50	0.5
890-2030-8	BH15	Solid	02/28/22 11:50	03/01/22 08:50	4
890-2030-9	BH16	Solid	02/28/22 13:20	03/01/22 08:50	2
890-2030-10	BH16	Solid	02/28/22 13:25	03/01/22 08:50	4
890-2030-11	BH17	Solid	02/28/22 14:15	03/01/22 08:50	2
890-2030-12	BH17	Solid	02/28/22 14:20	03/01/22 08:50	4

Relinquished by: (Signature)

 $\widehat{\mathscr{E}}$

3-1-22 0850

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018 1

Received by: (Signature) JE J

Chain of Custody

LABOI	LABORATORIES	10		Midlan	d,TX (432-704-5	440) EL	. Paso,T	X (915)	585-344	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296		- of P ³
Broisel Mariager	Dooph Hornandon	8	Hobbs	s.NM (575-392	-/550) Phoenix,AZ	,AZ (480	lim Ralev	ALL POL	anta, GA	Hobbs, NM (5/5-392-7550) Phoenix, AZ (480-355-0900) Aliania, GA (7/0-449-6600) Tampa, FL (6) G-620-2000)	Work Order Com	- 11
	SP	F	ı		Company Nan		WPX Energy	nergy			Program: UST/PST □PRP □Brownfields RC	Superfund
	3300 North A Street	reet			Address		5315 Buena Vista Dr	uena V	ista Dr			
City, State ZIP: Mi	Midland, TX 79705	05			City, State ZIP		Carlsbad, NM 88220	d, NM	88220			HRRP Level IV
	281-702-2329			Email	Anna.Byers@wsp.com	@wsp.c	om,				Deliverables: EDD	Other:
Project Name: RC	RDU 11			Tu	Turn Around					ANALYSIS REQUEST		Work Order Notes
Project Number: 31	31403360.031			Rout	Routine						CC 113763	631001
Incident ID: nA	nAPP2200728755	55		Rush	1:				_		AFE	
Sampler's Name: Gi	Gilbert Moreno			Due Date:	Date:			_			API: PA.2	API: PA.2021.04159.EXP.01
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	√es No							
Temperature (°C):	1.2/1	Ø		Thermometer ID	D	iner))	890-2030 Chain of Custody	Custody	
Received Intact:	Yes No	\$ 8	Corre	Correction Factor:	0.2	Conta	15)	=8021)	A 300.0		TAT charle	TAT starts the day received by the
Sample Custody Seals:	Yes No	E	Total	Total Containers:		er of	PA 80	PA	e (Ef		lab, if r	4
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth (Feet)	Numbe	TPH (E	ВТЕХ (І	Chlorid		Samı	Sample Comments 90
BH12		S	2.28.22	10:30	2	_	×	×	×			Pag
BH12		S	2.28.22	10:33	4		×	×	×			
ВН13		S	2.28.22	11:20	2	_	×	×	×			
BH13		S	2.28.22	11:25	4	_	×	×	×			
BH14		S	2.28.22	11:30	0.5	1	×	×	×			
BH14		S	2.28.22	11:35	4	_	×	×	×			
BH15		S	2.28.22	11:40	0.5	_	×	×	×			
BH15		S	2.28.22	11:50	4	1	×	×	×			
BH16		S	2.28.22	13:20	2	1	×	×	×			
BH16		S	2.28.22	13:25	4	1	×	×	×			
Total 200.7 / 6010	200.8 / 6020:	20:	8	8RCRA 13F	13PPM Texas 11		Sb As	Ba	Be B		Mo Ni K Se Ag SiO2	72 U V Zn
Circle Method(s) and Metal(s) to be analyzed	and Metal(s) to	be ana		TCLP / SPI	TCLP / SPLP 6010: 8RCRA	ш	Sb As	Ba	Be Cd	Cd Cr Co Cu Pb Mn Mo Ni Se Ag	TIU	1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this doc	ument and relinqui	shment of	samples const	litutes a valid p	urchase order fro	m client	company	to Xeno	o, its aff	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 are constituted as a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are constituted as a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are consistent as a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are consistent as a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are consistent as a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are consistent as a valid purchase order from client company to Xenco, its affiliates and subcontractors.	s standard terms and conditions circumstances beyond the control	
of service. Xenco will be liab of Xenco. A minimum charge	e of \$75.00 will be a	of sample	s and shall no ach project an	t assume any rend a charge of \$	5 for each sample	submitt	ed to Xe	nco, but	not anal	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses of expenses incurred by the client in 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.	nless previously negotiated.	

Work Order No:

Project Number: Project Name:

31403360.031 **RDU 11**

Routine Rush

Turn Around

ANALYSIS REQUEST

Deliverables: EDD

ADaPT -

Other:

CC 113763100

Work Order Notes

Anna.Byers@wsp.com,

acident ID:

nAPP2200728755

City, State ZIP: Address: Company Name:

281-702-2329

oject Manager

Chain of Custody

ORATORIES	Houston,TX (281) 240-4200	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 (4	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 Page _ c _ of _ c
Joseph Hernandez	Bill to: (if different) Jim Raley	Jim Raley	Work Order Comments
WSP	Company Name	WPX Energy	Program: UST/PST □PRP □Brownfields ¬RRC □Superfund □
3300 North A Street	Address	5315 Buena Vista Dr.	State of Project:
Midland, TX 79705	City, State ZIP	Carlsbad, NM 88220	ve⊟⊟ 中ST/∪

Revised Date 051418 Rev. 2018 1			o								G
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			\$50° 2	220	3-1-22 0850		0	loe (In Original Property	
Date/Time	Received by: (Signature)	Relinquished by: (Signature)		Date/Time	Đ	re)	Received by: (Signature)	Receive	е)	Relinquished by. (Signature)	Ref
	d terms and conditions ances beyond the control viously negotiated.	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.	enco, its aff incurred by but not anal	npany to X r expenses to Xenco, I	n client con ny losses o submitted	rchase order from sponsibility for an for each sample	nstitutes a valid pu not assume any re t and a charge of \$5	f samples co es and shall each projec	relinquishment or the cost of samp will be applied to	Signature of this document and see. Xenco will be liable only foo. A minimum charge of \$75.00	votice: 5 of servic of Xenco
Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mo Ni K Se Ag SiO2	Cd Ca Cr Co Cu Fe Cr Co Cu Pb Mn Mo	Be Be	b As Ba As Ba	1 Al Sb CRA Sb	RCRA 13PPM Texas 11 A	8RCRA 13PPM TCLP / SPLP 60	alyzed	200.8 / 6020: Metal(s) to be ar	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Ω σ
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			_								
			×	×	<u> </u>	4	14:20	2.28.22	S	BH17	
			×	×		2	14:15	2.28.22	S	BH17	
Sample Comments	Sar		Chlorid	TPH (EI	Numbe	Depth (Feet)	Time d Sampled	Date Sampled	Matrix	Sample Identification	
lab, if received by 4:30pm	lab,		e (El				Total Containers:	To	s No N/A	Sample Custody Seals: Yes	Sample
TAT starts the day recevied by the	TAT star		PA 3	_		0.2	Correction Factor:	8,	s No N/A	Cooler Custody Seals: Yes	Cooler
			00.0	21)	nta		<u>ن</u>	1	Yes No	Received Intact:	Receiv
)		iner	ō	Thermometer ID			Temperature (°C):	Tempe
					S	Yes No	o Wet Ice:	Yes No	Temp Blank:	SAMPLE RECEIPT	SAN
API: PA.2021.04159.EXP.01	API: PA)ate:	Due Date		preno	Sampler's Name: Gilbert Moreno	Sampl

Work Order No:

3/7/2022

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2030-1

SDG Number: 31403360.031

List Source: Eurofins Carlsbad

Login Number: 2030 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: 890-2030-1

SDG Number: 31403360.031

Login Number: 2030 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/02/22 11:22 AM

Creator: Kramer, Jessica

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2040-1

Laboratory SDG: 31403360.036.31403360.035

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 3/14/2022 1:37:54 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 10/4/2022 11:58:47 AM

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

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

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Client: WSP USA Inc. Project/Site: RDU 11

Laboratory Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

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Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 * LCS and/or LCSD is outside acceptance limits, low biased.

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

HPLC/IC

Qualifier Description

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

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Job ID: 890-2040-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2040-1

Receipt

The samples were received on 3/3/2022 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-20924 and analytical batch 880-21381 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH04 (890-2040-7), BH08 (890-2040-16), BH09 (890-2040-17), BH10 (890-2040-19) and BH10 (890-2040-20). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-21026 and analytical batch 880-21137 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-2040-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH01

Date Collected: 03/03/22 11:05 Date Received: 03/03/22 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/09/22 23:03	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/09/22 23:03	
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	
Analyte Total TPH	<50.0	Qualifier U			mg/Kg		Prepared	Analyzed 03/14/22 12:12	
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 22:14	•
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/11/22 22:14	
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 22:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130				03/04/22 15:08	03/11/22 22:14	
o-Terphenyl	105		70 - 130				03/04/22 15:08	03/11/22 22:14	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
motilou. Juliu - Alliona, Ion Olif	omatograpity -	Colubio							
Analyte	0.,	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH01

Date Collected: 03/03/22 11:07 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/09/22 23:24	1

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Lab Sample ID: 890-2040-2

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH01 Lab Sample ID: 890-2040-2

Date Collected: 03/03/22 11:07

Date Received: 03/03/22 15:10

Matrix: Solid

Sample Depth: 4

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
---	--------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	03/07/22 12:57	03/09/22 23:24	1

Method: Total	BTFX - Total	BTEX Calculation
mothiod: rotal		DIE/ Guidalation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg	 	_	03/10/22 16:12	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/14/22 12:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	03/04/22 15:08	03/11/22 23:18	1
o-Terphenyl	123		70 - 130	03/04/22 15:08	03/11/22 23:18	1

Method: 300.0	- Anions, Ion	Chromate	ography	/ - Soluble

	Analyte	Result	Qualifier	RL	MDL	Unit	D		pared	Analyzed	Dil Fac
l	Chloride	9220		99.2		mg/Kg		· ·		03/09/22 12:55	20

Client Sample ID: BH02

Date Collected: 03/03/22 11:10

Lab Sample ID: 890-2040-3

Matrix: Solid

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Sample Depth: 0.5

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

Motifica. Coz ID Volutilo Orga	(33)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/09/22 23:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/07/22 12:57	03/09/22 23:44	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397		ma/Ka				03/10/22 16:12	1

	Method: 8015 NM - Diesel	Range Organics (DRO	D) (GC)	۱
ı	Michiga. 00 to Min - Diese	i italige Organics (Ditt		,

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		_	03/14/22 12:12	1

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Lab Sample ID: 890-2040-3

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:10	Matrix: Solid
Date Received: 03/03/22 15:10	
Sample Depth: 0.5	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				03/04/22 15:08	03/11/22 23:39	1
o-Terphenyl	79		70 - 130				03/04/22 15:08	03/11/22 23:39	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		49.8		mg/Kg			03/09/22 09:22	10

Lab Sample ID: 890-2040-4 Client Sample ID: BH02 Date Collected: 03/03/22 11:20 Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	•
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 00:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 00:05	1
Analyte Total BTEX	<0.00398	Qualifier U	0.00398	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 03/10/22 16:12	
Total BTEX Method: 8015 NM - Diesel Range	<0.00398 e Organics (DR	U (GC)	0.00398		mg/Kg			03/10/22 16:12	1
Total BTEX Method: 8015 NM - Diesel Range Analyte	<0.00398 e Organics (DR	O) (GC) Qualifier				<u>D</u>	Prepared		Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	<0.00398 e Organics (DR) Result <49.9 ge Organics (D) Result	O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9		mg/Kg Unit mg/Kg			03/10/22 16:12 Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	<0.00398 e Organics (DR) Result <49.9 ge Organics (D)	O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/10/22 16:12 Analyzed 03/14/22 12:12	Dil Fac
Total BTEX	<0.00398 e Organics (DR) Result <49.9 ge Organics (D) Result	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	03/10/22 16:12 Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 e Organics (DR) Result <49.9 ge Organics (D) Result <49.9	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00398 RL 49.9 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/04/22 15:08	03/10/22 16:12 Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00398 e Organics (DR) Result <49.9 <49.9 <49.9 <49.9 %Recovery	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00398 RL 49.9 RL 49.9 49.9 49.9 Limits	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	Analyzed 03/12/22 00:01 03/12/22 00:01 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 e Organics (DR) Result <49.9 <49.9 <49.9	U O) (GC) Qualifier U RO) (GC) Qualifier U U *-	0.00398 RL 49.9 RL 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 03/04/22 15:08 03/04/22 15:08	03/10/22 16:12 Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01 03/12/22 00:01	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1

Matrix: Solid

Lab Sample ID: 890-2040-4

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1

Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	8350		100		mg/Kg			03/09/22 09:31	20

Client Sample ID: BH03 Lab Sample ID: 890-2040-5 Matrix: Solid

Date Collected: 03/03/22 11:37 Date Received: 03/03/22 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/07/22 12:57	03/10/22 00:25	1
· Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				03/04/22 15:08	03/12/22 00:22	1
o-Terphenyl	78		70 - 130				03/04/22 15:08	03/12/22 00:22	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3310		49.7		mg/Kg			03/09/22 09:40	10

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH03

Date Collected: 03/03/22 11:40 Date Received: 03/03/22 15:10

Sample Depth: 4

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 00:46	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	1
Analyte Total TPH		Qualifier	RL	MDL	UIIIL	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0								
- -	\30.0	U	50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Ran			50.0		mg/Kg				
- -	ge Organics (D		50.0	MDL		D	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 03/04/22 15:08	03/14/22 12:12	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		03/14/22 12:12 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:44	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U U *-	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:44 03/12/22 00:44	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U U *-	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 00:44 03/12/22 00:44	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U U *-	FL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:44 03/12/22 00:44 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <70.0 **Recovery** 77 83	RO) (GC) Qualifier U U*- U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:44 03/12/22 00:44 Analyzed 03/12/22 00:44	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 77 83 omatography -	RO) (GC) Qualifier U U*- U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 00:44 03/12/22 00:44 Analyzed 03/12/22 00:44	Dil Fac

Client Sample ID: BH04

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/07/22 12:57	03/10/22 01:06	1

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DG: 31403360.036.31403360.035 **Lab Sample ID: 890-2040-6**

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Lab Sample ID: 890-2040-7

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH04 Lab Sample ID: 890-2040-7

Date Collected: 03/03/22 09:25
Date Received: 03/03/22 15:10
Matrix: Solid

Sample Depth: 0.5

Method: 8021B - Volatile Organic	Compounds (GC) (Conti	nued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130				03/07/22 12:57	03/10/22 01:06	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/10/22 16:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				03/04/22 15:08	03/12/22 01:05	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3	F1	4.96		mg/Kg			03/09/22 16:05	1

70 - 130

65 S1-

<50.0 U

Client Sample ID: BH04

Date Collected: 03/03/22 09:30

Lab Sample ID: 890-2040-8

Matrix: Solid

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Sample Depth: 4

Total TPH

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/07/22 12:57	03/10/22 01:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 01:26	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
			RL		Unit				

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03/14/22 12:12

50.0

mg/Kg

2

5

7

9

11

13

14

03/04/22 15:08

03/12/22 01:05

mo Canobac

Matrix: Solid

Lab Sample ID: 890-2040-8

Lab Sample ID: 890-2040-9

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH04

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/04/22 15:08	03/12/22 01:26	1
o-Terphenyl	81		70 - 130				03/04/22 15:08	03/12/22 01:26	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		5.00		mg/Kg			03/09/22 16:23	

Client Sample ID: BH05

Date Collected: 03/03/22 09:35

Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	302	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
1,4-Difluorobenzene (Surr)	273	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:48	1
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:48	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				03/04/22 15:08	03/12/22 01:48	1
o-Terphenyl	72		70 - 130				03/04/22 15:08	03/12/22 01:48	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH05

Lab Sample ID: 890-2040-9 Date Collected: 03/03/22 09:35 Matrix: Solid

Date Received: 03/03/22 15:10 Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.80		4.98		mg/Kg			03/09/22 16:29	1

Lab Sample ID: 890-2040-10 **Client Sample ID: BH05 Matrix: Solid**

Date Collected: 03/03/22 09:40 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 02:07	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 02:07	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	•	, ,	D.	MDI	11-14	_	Burnand	Amakanad	D!! F
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				03/04/22 15:08	03/12/22 02:10	1
			70 ₋ 130				03/04/22 15:08	03/12/22 02:10	1
o-Terphenyl	73								
o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble							
	omatography -	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Matrix: Solid

Lab Sample ID: 890-2040-11

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH06

Date Collected: 03/03/22 09:45 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	•
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 03:29	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/07/22 12:57	03/10/22 03:29	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/10/22 16:12	-
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	rtoouit	Qualifici			0		opa.oa		
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Total TPH : : Method: 8015B NM - Diesel Ran			50.0		mg/Kg				
•	ge Organics (D		50.0 RL	MDL		D	Prepared		1
: Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 03/04/22 15:08	03/14/22 12:12	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	03/14/22 12:12 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U U *-	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U U *-	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U U *-	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	D	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <70.0 %Recovery 79 77	Qualifier U Calculation U Calculation U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed 03/12/22 02:52	
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 $$	Qualifier U V*- Qualifier Soluble Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70.130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 02:52 03/12/22 02:52 Analyzed 03/12/22 02:52	Dil Fac

Client Sample ID: BH06

Date Collected: 03/03/22 09:50 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 03:50	1

Eurofins Carlsbad

Lab Sample ID: 890-2040-12

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Project/Site: RDU 11

Client Sample ID: BH06 Lab Sample ID: 890-2040-12 Date Collected: 03/03/22 09:50 Matrix: Solid

Date Received: 03/03/22 15:10 Sample Depth: 4

Method: 8021B - Volatile Organ	nic Compounds	(GC)	(Continued)	
mothed collis	no compoundo	, – – ,	(-	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	03/07/22 12:57	03/10/22 03:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			03/10/22 16:12	1

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			03/14/22 12:12	1

Mathadi 001ED	NM Discal Day	an Organian	(DBO) (CC)
Method: 8015B	nivi - Diesei Kai	ide Ordanics	IDKUI IGGI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pr	repared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03/04	4/22 15:08	03/12/22 03:14	1
o-Terphenyl	78		70 - 130	03/04	4/22 15:08	03/12/22 03:14	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4	5.04	mg/Kg			03/09/22 17:16	1

Client Sample ID: BH07 Lab Sample ID: 890-2040-13 **Matrix: Solid**

Date Collected: 03/03/22 09:55 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/10/22 04:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/07/22 12:57	03/10/22 04:10	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka	 		03/10/22 16:12	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/14/22 12:12	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH07 Lab Sample ID: 890-2040-13 Date Collected: 03/03/22 09:55 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	,
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 03:35	1
o-Terphenyl	91		70 - 130				03/04/22 15:08	03/12/22 03:35	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.01		4.98		mg/Kg			03/09/22 17:21	1

Client Sample ID: BH07 Lab Sample ID: 890-2040-14 Matrix: Solid

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 04:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:31	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	H	0.00404		mg/Kg			03/10/22 16:12	1
-	-0.00-10-1	U	0.00404		ilig/Kg			03/10/22 10.12	'
Method: 8015 NM - Diesel Range			0.00404		ilig/Kg			03/10/22 10.12	'
- ^{'''} -	Organics (DR		0.00404 RL	MDL	Unit	D	Prepared	Analyzed	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Organics (DR) Result <50.0 ge Organics (DI)	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR) Result <50.0 ge Organics (DI)	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 03/14/22 12:12	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR) Result <50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR) Result <50.0 ge Organics (DR) Result	Qualifier U RO) (GC) Qualifier U	RL		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR) Result <50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U U V-	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR) Result <50.0 ge Organics (D) Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U V U U U V U	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57 03/12/22 03:57	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR Result	Qualifier U RO) (GC) Qualifier U U V U U U V U	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 03:57 03/12/22 03:57	Dil Fac

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH07 Lab Sample ID: 890-2040-14 Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	130		5.01		mg/Kg			03/09/22 17:27	1

Client Sample ID: BH08 Lab Sample ID: 890-2040-15 Matrix: Solid

Date Collected: 03/03/22 10:05 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 04:51	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:51	1
· Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/10/22 16:12	1
Analyte Total TPH		Qualifier U	RL 49.9	MDL	Mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	Dil Fac
: Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				03/04/22 15:08	03/12/22 04:18	1
o-Terphenyl	88		70 - 130				03/04/22 15:08	03/12/22 04:18	1
Method: 300.0 - Anions, Ion Chr	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.90		4.99		mg/Kg			03/09/22 17:33	1

Matrix: Solid

Lab Sample ID: 890-2040-16

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH08

Date Collected: 03/03/22 10:10 Date Received: 03/03/22 15:10

Sample Depth: 4

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/07/22 12:57	03/10/22 05:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 05:11	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/10/22 16:12	1
Analysta	Dogult	Ouglifier	DI.	MDI	Unit	n	Dropored	Analyzad	Dil Eo
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result < 50.0		RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	
	<50.0	U		MDL		<u>D</u>	Prepared		
Total TPH	<50.0	U				<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			03/14/22 12:12	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D Result	CODE (GC) Qualifier U	50.0		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (D) Result <50.0	RO) (GC) Qualifier U U *-	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0	CONTROL (GC) Qualifier U U *-	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	CONTROL (GC) Qualifier U U *-	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 03/12/22 04:40	Dil Face
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <60.0 .4	U RO) (GC) Qualifier U '- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 03/12/22 04:40 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <60.0 %Recovery 0.4 2	CONTROLUCION (CONTROLUCION (CO	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 Analyzed 03/12/22 04:40	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D Result <50.0 <50.0 <50.0 <60.0 %Recovery 0.4 2 omatography -	CONTROLUCION (CONTROLUCION (CO	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 Analyzed 03/12/22 04:40	Dil Fac

Client Sample ID: BH09

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/07/22 12:57	03/10/22 05:32	

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Lab Sample ID: 890-2040-17

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 0.5

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

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	03/07/22 12:57	03/10/22 05:32	1

Method: Total BTEX - Total BTEX C	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/10/22 16:12	1

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/14/22 12:12	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

o-Terphenyl	58 S1-	70 - 130	03/04/22 15:08	03/12/22 05:01	1
Method: 300.0 - Anions, Ion Chron	natography - Soluble				

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4	5.00	mg/Kg			03/09/22 17:45	1

Client Sample ID: BH09 Lab Sample ID: 890-2040-18 **Matrix: Solid**

Date Collected: 03/03/22 10:25 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/07/22 12:57	03/10/22 05:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 05:52	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tatal DTEV	40,00000		0.00000					00/40/00 40:40	

Method: Total BTEX - Total BTEX Ca	lculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
Г., .,									

Method: 8015 NM - Diesei Range C	nod: 8015 NM - Diesei Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/14/22 12:12	1

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH09 Lab Sample ID: 890-2040-18

Date Collected: 03/03/22 10:25 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 05:23	1
o-Terphenyl	90		70 - 130				03/04/22 15:08	03/12/22 05:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	174		5.05		mg/Kg			03/09/22 18:03	1

Client Sample ID: BH10 Lab Sample ID: 890-2040-19 Matrix: Solid

Date Collected: 03/03/22 10:30 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/10/22 06:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:13	1
Method: Total BTEX - Total BTE)	Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/10/22 16:12	1
Total BTEX Method: 8015 NM - Diesel Range			0.00397		mg/Kg			03/10/22 16:12	1
-	o Organics (DR		0.00397 RL	MDL	mg/Kg Unit	D	Prepared	03/10/22 16:12 Analyzed	
: Method: 8015 NM - Diesel Range	o Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u> </u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg		<u> </u>	Analyzed 03/14/22 12:12	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	RL		Unit mg/Kg Unit		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U V U V U V-	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U V*-	RL 50.0 FL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45 03/12/22 05:45	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <p><50.0</p> <50.0	Qualifier U RO) (GC) Qualifier U U V U U V U	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 05:45 03/12/22 05:45	Dil Fac Dil Fac 1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH10 Lab Sample ID: 890-2040-19

Date Collected: 03/03/22 10:30 Matrix: Solid
Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.95		4.97		mg/Kg			03/09/22 18:09	1

Client Sample ID: BH10

Date Collected: 03/03/22 10:35

Lab Sample ID: 890-2040-20

Matrix: Solid

Date Collected: 03/03/22 10:35 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				03/07/22 12:57	03/10/22 06:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:33	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.6		50.0		mg/Kg			03/14/22 12:12	,
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	1
Diesel Range Organics (Over C10-C28)	70.6	*_	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	•
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	0.03	S1-	70 - 130				03/04/22 15:08	03/12/22 06:06	1
1-Chioroctane									

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Analyzed 03/09/22 18:26

RL

4.98

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

34.6

Dil Fac

Analyte

Chloride

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2040-1	BH01	103	98	
390-2040-1 MS	BH01	100	99	
390-2040-1 MSD	BH01	101	99	
390-2040-2	BH01	105	97	
390-2040-3	BH02	101	96	
390-2040-4	BH02	109	101	
390-2040-5	BH03	108	99	
390-2040-6	BH03	108	98	
390-2040-7	BH04	107	99	
390-2040-8	BH04	110	101	
390-2040-9	BH05	302 S1+	273 S1+	
390-2040-10	BH05	108	98	
390-2040-11	BH06	109	100	
390-2040-12	BH06	108	98	
390-2040-13	BH07	105	97	
390-2040-14	BH07	109	98	
390-2040-15	BH08	108	98	
90-2040-16	BH08	106	98	
90-2040-17	BH09	110	102	
390-2040-18	BH09	112	98	
390-2040-19	BH10	103	98	
390-2040-20	BH10	104	98	
_CS 880-20908/1-A	Lab Control Sample	99	100	
CSD 880-20908/2-A	Lab Control Sample Dup	99	100	
MB 880-20906/5-A	Method Blank	99	93	
/IB 880-20908/5-A	Method Blank	95	93	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2040-1	BH01	98	105	
00-2040-1 MS	BH01	108	107	
90-2040-1 MSD	BH01	112	107	
90-2040-2	BH01	118	123	
90-2040-3	BH02	74	79	
90-2040-4	BH02	82	86	
90-2040-5	BH03	72	78	
90-2040-6	BH03	77	83	
90-2040-7	BH04	65 S1-	65 S1-	
90-2040-8	BH04	80	81	
90-2040-9	BH05	78	72	
90-2040-10	BH05	70	73	
90-2040-11	BH06	79	77	

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DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2040-12	BH06	75	78	
890-2040-13	BH07	87	91	
890-2040-14	BH07	98	101	
890-2040-15	BH08	85	88	
890-2040-16	BH08	0.4 S1-	2 S1-	
890-2040-17	BH09	61 S1-	58 S1-	
890-2040-18	ВН09	87	90	
890-2040-19	BH10	61 S1-	62 S1-	
890-2040-20	BH10	0.03 S1-	91	
LCS 880-20924/2-A	Lab Control Sample	101	103	
LCSD 880-20924/3-A	Lab Control Sample Dup	113	115	
MB 880-20924/1-A	Method Blank	101	109	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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2

3

-5

7

0

10

15

13

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20906/5-A

Lab Sample ID: MB 880-20908/5-A

Matrix: Solid

Analysis Batch: 21187

Matrix: Solid

Analysis Batch: 21187

Client	Sample	ID:	Method	Blank
	•			

Prep Type: Total/NA

Prep Batch: 20906

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

03/09/22 08:00 03/09/22 10:58 03/09/22 08:00 03/09/22 10:58

Analyzed

Prepared

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

Prep Batch: 20908

Dil Fac

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 22:41	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 22:41	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 22:41	

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	70 - 130	03/07/22 12:57	03/09/22 22:41	1
1,4-Difluorobenzene (Surr)	93	70 - 130	03/07/22 12:57	03/09/22 22:41	1

Lab Sample ID: LCS 880-20908/1-A

Analysis Batch: 21187

Matrix: Solid

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 20908

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	
Toluene	0.100	0.09711		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09592		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1986		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09573		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 _ 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-20908/2-A

Matrix: Solid							Prep 1	Type: To	tal/NA	
Analysis Batch: 21187							Prep Batch: 20908			
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	2	35	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

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

Lab Sample ID: LCSD 880-20908/2-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20908

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09990 100 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.09791 mg/Kg 98 70 - 130 2 35 0.200 m-Xylene & p-Xylene 0.2036 mg/Kg 102 70 - 130 2 35 o-Xylene 0.100 0.09864 mg/Kg 99 70 - 130 3

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2040-1 MS

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 20908

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U 0.0990 0.1074 108 mg/Kg 70 - 130 Toluene <0.00199 U 0.0990 0.1038 105 70 - 130 mg/Kg Ethylbenzene <0.00199 U 0.0990 0.1022 103 70 - 130 mg/Kg 0.198 m-Xylene & p-Xylene <0.00398 U 0.2108 106 70 - 130 mg/Kg o-Xylene <0.00199 U 0.0990 0.1024 mg/Kg 103 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 20908

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.1022		mg/Kg		103	70 - 130	5	35
Toluene	< 0.00199	U	0.0994	0.09897		mg/Kg		100	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0994	0.09699		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2012		mg/Kg		101	70 - 130	5	35
o-Xylene	< 0.00199	U	0.0994	0.09863		mg/Kg		99	70 - 130	4	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-20924/1-A

Matrix: Solid

Analysis Batch: 21381

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

Prep Batch: 20924

MB MB Analyte Result Qualifier RL MDL Unit Prepared <50.0 U 50.0 03/04/22 15:08 03/11/22 21:09 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client Sample ID: Method Blank

03/11/22 21:09

03/04/22 15:08

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-2040-1 SDG: 31403360.036.31403360.035 Project/Site: RDU 11

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

Lab Sample ID: MB 880-20924/1-A **Matrix: Solid**

Diesel Range Organics (Over

OII Range Organics (Over C28-C36)

Analyte

C10-C28)

Analysis Batch: 21381

							Prep Batch	n: 20924
MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 21:09	1

mg/Kg

MB MB

<50.0 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/04/22 15:08	03/11/22 21:09	1
o-Terphenyl	109		70 - 130	03/04/22 15:08	03/11/22 21:09	1

50.0

Lab Sample ID: LCS 880-20924/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 21381			Prep Batch: 20924
	Snika	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 962.5 96 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 686.5 *mg/Kg 69 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-20924/3-A

Matrix: Solid

Analysis Batch: 21381

Client Sample	ID: Lab	Control	Sample Dup
		Dron T	mor Total/NIA

Prep Type: Total/NA Prep Batch: 20924

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Gasoline Range Organics 1000 1041 mg/Kg 104 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 768.2 mg/Kg 77 70 - 130 11 20

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-2040-1 MS

Released to Imaging: 10/4/2022 11:58:47 AM

Matrix: Solid

Analysis Batch: 21381

Client Sample ID: BH01	
Prop Type: Total/NA	

'rep Type: Total/NA Prep Batch: 20924

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1019		mg/Kg		99	70 - 130
Diesel Range Organics (Over	<50.0	U *-	1000	801.0		mg/Kg		78	70 - 130

C10-C28)

	INIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	107		70 - 130

Client: WSP USA Inc. Job ID: 890-2040-1 SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH04

Client Sample ID: BH04

Prep Type: Soluble

Prep Type: Soluble

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

Lab Sample ID: 890-2040-1 MSD Client Sample ID: BH01 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 21381 Prep Batch: 20924

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1099		mg/Kg		107	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *-	998	821.3		mg/Kg		80	70 - 130	3	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21026/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

M	В	M	В

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			03/09/22 15:48	1

Lab Sample ID: LCS 880-21026/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	231.2		mg/Kg		92	90 - 110	

Lab Sample ID: LCSD 880-21026/3-A

Matrix: Solid

Analysis Batch: 21137

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	243.8		ma/Ka		98	90 - 110		20	

Lab Sample ID: 890-2040-7 MS

Matrix: Solid

Analysis Batch: 21137

	Sample	Sample	Spike	IVIS	MIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	45.3	F1	248	261.4	F1	mg/Kg		87	90 - 110	

Lab Sample ID: 890-2040-7 MSD

Matrix: Solid

Analysis Ratch: 21137

Analysis battii. 21131											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	45.3	F1	248	262.7	F1	mg/Kg		88	90 - 110	1	20

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2040-17 MS Client Sample ID: BH09 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

Client: WSP USA Inc.

Project/Site: RDU 11

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 10.4 250 281.4 mg/Kg 108 90 - 110

Lab Sample ID: 890-2040-17 MSD Client Sample ID: BH09 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Qualifier Limits RPD Limit Analyte Result Result Unit D %Rec Chloride 10.4 250 273.4 mg/Kg 105 90 - 110

Lab Sample ID: MB 880-21025/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/09/22 01:05 mg/Kg

Lab Sample ID: LCS 880-21025/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 254.2 102 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-21025/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 252.3 mg/Kg 101 90 - 110 20

Lab Sample ID: 890-2040-1 MS Client Sample ID: BH01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 8700 Chloride 4990 13740 mg/Kg 101 90 - 110

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21139

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit D %Rec Chloride 8700 4990 13490 mg/Kg 96 90 - 110 20

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Client Sample ID: BH01

Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC VOA

Prep Batch: 20906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20906/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2040-1	BH01	Total/NA	Solid	5035	
890-2040-2	BH01	Total/NA	Solid	5035	
890-2040-3	BH02	Total/NA	Solid	5035	
890-2040-4	BH02	Total/NA	Solid	5035	
890-2040-5	BH03	Total/NA	Solid	5035	
890-2040-6	BH03	Total/NA	Solid	5035	
890-2040-7	BH04	Total/NA	Solid	5035	
890-2040-8	BH04	Total/NA	Solid	5035	
890-2040-9	BH05	Total/NA	Solid	5035	
890-2040-10	BH05	Total/NA	Solid	5035	
890-2040-11	BH06	Total/NA	Solid	5035	
890-2040-12	BH06	Total/NA	Solid	5035	
890-2040-13	BH07	Total/NA	Solid	5035	
890-2040-14	BH07	Total/NA	Solid	5035	
890-2040-15	BH08	Total/NA	Solid	5035	
890-2040-16	BH08	Total/NA	Solid	5035	
890-2040-17	BH09	Total/NA	Solid	5035	
890-2040-18	BH09	Total/NA	Solid	5035	
890-2040-19	BH10	Total/NA	Solid	5035	
890-2040-20	BH10	Total/NA	Solid	5035	
MB 880-20908/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2040-1 MS	BH01	Total/NA	Solid	5035	
890-2040-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 21187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8021B	20908
890-2040-2	BH01	Total/NA	Solid	8021B	20908
890-2040-3	BH02	Total/NA	Solid	8021B	20908
890-2040-4	BH02	Total/NA	Solid	8021B	20908
890-2040-5	BH03	Total/NA	Solid	8021B	20908
890-2040-6	BH03	Total/NA	Solid	8021B	20908
890-2040-7	BH04	Total/NA	Solid	8021B	20908
890-2040-8	BH04	Total/NA	Solid	8021B	20908
890-2040-9	BH05	Total/NA	Solid	8021B	20908
890-2040-10	BH05	Total/NA	Solid	8021B	20908
890-2040-11	BH06	Total/NA	Solid	8021B	20908
890-2040-12	BH06	Total/NA	Solid	8021B	20908
890-2040-13	BH07	Total/NA	Solid	8021B	20908
890-2040-14	BH07	Total/NA	Solid	8021B	20908
890-2040-15	BH08	Total/NA	Solid	8021B	20908
890-2040-16	BH08	Total/NA	Solid	8021B	20908
890-2040-17	BH09	Total/NA	Solid	8021B	20908
890-2040-18	BH09	Total/NA	Solid	8021B	20908
890-2040-19	BH10	Total/NA	Solid	8021B	20908

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC VOA (Continued)

Analysis Batch: 21187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-20	BH10	Total/NA	Solid	8021B	20908
MB 880-20906/5-A	Method Blank	Total/NA	Solid	8021B	20906
MB 880-20908/5-A	Method Blank	Total/NA	Solid	8021B	20908
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	8021B	20908
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20908
890-2040-1 MS	BH01	Total/NA	Solid	8021B	20908
890-2040-1 MSD	BH01	Total/NA	Solid	8021B	20908

Analysis Batch: 21336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	Total BTEX	
890-2040-2	BH01	Total/NA	Solid	Total BTEX	
890-2040-3	BH02	Total/NA	Solid	Total BTEX	
890-2040-4	BH02	Total/NA	Solid	Total BTEX	
890-2040-5	BH03	Total/NA	Solid	Total BTEX	
890-2040-6	BH03	Total/NA	Solid	Total BTEX	
890-2040-7	BH04	Total/NA	Solid	Total BTEX	
890-2040-8	BH04	Total/NA	Solid	Total BTEX	
890-2040-9	BH05	Total/NA	Solid	Total BTEX	
890-2040-10	BH05	Total/NA	Solid	Total BTEX	
890-2040-11	BH06	Total/NA	Solid	Total BTEX	
890-2040-12	BH06	Total/NA	Solid	Total BTEX	
890-2040-13	BH07	Total/NA	Solid	Total BTEX	
890-2040-14	BH07	Total/NA	Solid	Total BTEX	
890-2040-15	BH08	Total/NA	Solid	Total BTEX	
890-2040-16	BH08	Total/NA	Solid	Total BTEX	
890-2040-17	BH09	Total/NA	Solid	Total BTEX	
890-2040-18	ВН09	Total/NA	Solid	Total BTEX	
890-2040-19	BH10	Total/NA	Solid	Total BTEX	
890-2040-20	BH10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2040-1	BH01	Total/NA	Solid	8015NM Prep	
890-2040-2	BH01	Total/NA	Solid	8015NM Prep	
890-2040-3	BH02	Total/NA	Solid	8015NM Prep	
890-2040-4	BH02	Total/NA	Solid	8015NM Prep	
890-2040-5	BH03	Total/NA	Solid	8015NM Prep	
890-2040-6	BH03	Total/NA	Solid	8015NM Prep	
890-2040-7	BH04	Total/NA	Solid	8015NM Prep	
890-2040-8	BH04	Total/NA	Solid	8015NM Prep	
890-2040-9	BH05	Total/NA	Solid	8015NM Prep	
890-2040-10	BH05	Total/NA	Solid	8015NM Prep	
890-2040-11	BH06	Total/NA	Solid	8015NM Prep	
890-2040-12	BH06	Total/NA	Solid	8015NM Prep	
890-2040-13	BH07	Total/NA	Solid	8015NM Prep	
890-2040-14	BH07	Total/NA	Solid	8015NM Prep	
890-2040-15	BH08	Total/NA	Solid	8015NM Prep	
890-2040-16	BH08	Total/NA	Solid	8015NM Prep	

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Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Prep Batch: 20924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-17	BH09	Total/NA	Solid	8015NM Prep	
890-2040-18	BH09	Total/NA	Solid	8015NM Prep	
890-2040-19	BH10	Total/NA	Solid	8015NM Prep	
890-2040-20	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2040-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2040-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8015B NM	20924
890-2040-2	BH01	Total/NA	Solid	8015B NM	20924
890-2040-3	BH02	Total/NA	Solid	8015B NM	20924
890-2040-4	BH02	Total/NA	Solid	8015B NM	20924
890-2040-5	BH03	Total/NA	Solid	8015B NM	20924
890-2040-6	BH03	Total/NA	Solid	8015B NM	20924
890-2040-7	BH04	Total/NA	Solid	8015B NM	20924
890-2040-8	BH04	Total/NA	Solid	8015B NM	20924
890-2040-9	BH05	Total/NA	Solid	8015B NM	20924
890-2040-10	BH05	Total/NA	Solid	8015B NM	20924
890-2040-11	BH06	Total/NA	Solid	8015B NM	20924
890-2040-12	BH06	Total/NA	Solid	8015B NM	20924
890-2040-13	BH07	Total/NA	Solid	8015B NM	20924
890-2040-14	BH07	Total/NA	Solid	8015B NM	20924
890-2040-15	BH08	Total/NA	Solid	8015B NM	20924
890-2040-16	BH08	Total/NA	Solid	8015B NM	20924
890-2040-17	BH09	Total/NA	Solid	8015B NM	20924
890-2040-18	BH09	Total/NA	Solid	8015B NM	20924
890-2040-19	BH10	Total/NA	Solid	8015B NM	20924
890-2040-20	BH10	Total/NA	Solid	8015B NM	20924
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015B NM	20924
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20924
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20924
890-2040-1 MS	BH01	Total/NA	Solid	8015B NM	20924
890-2040-1 MSD	BH01	Total/NA	Solid	8015B NM	20924

Analysis Batch: 21529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8015 NM	
890-2040-2	BH01	Total/NA	Solid	8015 NM	
890-2040-3	BH02	Total/NA	Solid	8015 NM	
890-2040-4	BH02	Total/NA	Solid	8015 NM	
890-2040-5	BH03	Total/NA	Solid	8015 NM	
890-2040-6	BH03	Total/NA	Solid	8015 NM	
890-2040-7	BH04	Total/NA	Solid	8015 NM	
890-2040-8	BH04	Total/NA	Solid	8015 NM	
890-2040-9	BH05	Total/NA	Solid	8015 NM	
890-2040-10	BH05	Total/NA	Solid	8015 NM	
890-2040-11	BH06	Total/NA	Solid	8015 NM	

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Analysis Batch: 21529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-12	BH06	Total/NA	Solid	8015 NM	
890-2040-13	BH07	Total/NA	Solid	8015 NM	
890-2040-14	BH07	Total/NA	Solid	8015 NM	
890-2040-15	BH08	Total/NA	Solid	8015 NM	
890-2040-16	BH08	Total/NA	Solid	8015 NM	
890-2040-17	BH09	Total/NA	Solid	8015 NM	
890-2040-18	BH09	Total/NA	Solid	8015 NM	
890-2040-19	BH10	Total/NA	Solid	8015 NM	
890-2040-20	BH10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	DI Leach	
890-2040-2	BH01	Soluble	Solid	DI Leach	
890-2040-3	BH02	Soluble	Solid	DI Leach	
890-2040-4	BH02	Soluble	Solid	DI Leach	
890-2040-5	BH03	Soluble	Solid	DI Leach	
890-2040-6	BH03	Soluble	Solid	DI Leach	
MB 880-21025/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2040-1 MS	BH01	Soluble	Solid	DI Leach	
890-2040-1 MSD	BH01	Soluble	Solid	DI Leach	

Leach Batch: 21026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-7	BH04	Soluble	Solid	DI Leach	
890-2040-8	BH04	Soluble	Solid	DI Leach	
890-2040-9	BH05	Soluble	Solid	DI Leach	
890-2040-10	BH05	Soluble	Solid	DI Leach	
890-2040-11	BH06	Soluble	Solid	DI Leach	
890-2040-12	BH06	Soluble	Solid	DI Leach	
390-2040-13	BH07	Soluble	Solid	DI Leach	
390-2040-14	BH07	Soluble	Solid	DI Leach	
390-2040-15	BH08	Soluble	Solid	DI Leach	
390-2040-16	BH08	Soluble	Solid	DI Leach	
390-2040-17	BH09	Soluble	Solid	DI Leach	
390-2040-18	BH09	Soluble	Solid	DI Leach	
390-2040-19	BH10	Soluble	Solid	DI Leach	
390-2040-20	BH10	Soluble	Solid	DI Leach	
MB 880-21026/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-21026/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2040-7 MS	BH04	Soluble	Solid	DI Leach	
390-2040-7 MSD	BH04	Soluble	Solid	DI Leach	
890-2040-17 MS	BH09	Soluble	Solid	DI Leach	
390-2040-17 MSD	BH09	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

HPLC/IC

Analysis Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-7	BH04	Soluble	Solid	300.0	21026
890-2040-8	BH04	Soluble	Solid	300.0	21026
890-2040-9	BH05	Soluble	Solid	300.0	21026
890-2040-10	BH05	Soluble	Solid	300.0	21026
890-2040-11	BH06	Soluble	Solid	300.0	21026
890-2040-12	BH06	Soluble	Solid	300.0	21026
890-2040-13	BH07	Soluble	Solid	300.0	21026
890-2040-14	BH07	Soluble	Solid	300.0	21026
890-2040-15	BH08	Soluble	Solid	300.0	21026
890-2040-16	BH08	Soluble	Solid	300.0	21026
890-2040-17	BH09	Soluble	Solid	300.0	21026
890-2040-18	BH09	Soluble	Solid	300.0	21026
890-2040-19	BH10	Soluble	Solid	300.0	21026
890-2040-20	BH10	Soluble	Solid	300.0	21026
MB 880-21026/1-A	Method Blank	Soluble	Solid	300.0	21026
LCS 880-21026/2-A	Lab Control Sample	Soluble	Solid	300.0	21026
LCSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21026
890-2040-7 MS	BH04	Soluble	Solid	300.0	21026
890-2040-7 MSD	BH04	Soluble	Solid	300.0	21026
890-2040-17 MS	BH09	Soluble	Solid	300.0	21026
890-2040-17 MSD	BH09	Soluble	Solid	300.0	21026

Analysis Batch: 21139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	300.0	21025
890-2040-2	BH01	Soluble	Solid	300.0	21025
890-2040-3	BH02	Soluble	Solid	300.0	21025
890-2040-4	BH02	Soluble	Solid	300.0	21025
890-2040-5	BH03	Soluble	Solid	300.0	21025
890-2040-6	BH03	Soluble	Solid	300.0	21025
MB 880-21025/1-A	Method Blank	Soluble	Solid	300.0	21025
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	300.0	21025
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21025
890-2040-1 MS	BH01	Soluble	Solid	300.0	21025
890-2040-1 MSD	BH01	Soluble	Solid	300.0	21025

Client: WSP USA Inc.

Job ID: 890-2040-1

Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH01 Lab Sample ID: 890-2040-1

Date Collected: 03/03/22 11:05 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 22:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 01:31	CH	XEN MID

Client Sample ID: BH01 Lab Sample ID: 890-2040-2

Date Collected: 03/03/22 11:07 Matrix: Solid Date Received: 03/03/22 15:10

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20908 Total/NA Prep 5.00 g 5 mL 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 03/09/22 23:24 KL XEN MID Analysis 1 5 mL 21187 Total/NA Total BTEX 21336 03/10/22 16:12 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 21529 03/14/22 12:12 XEN MID Total/NA 20924 03/04/22 15:08 XEN MID Prep 8015NM Prep 10.01 g DM 10 mL Total/NA Analysis 8015B NM 21381 03/11/22 23:18 AJ XEN MID Soluble 21025 XEN MID Leach DI Leach 5.04 g 50 mL 03/07/22 10:32 CH Soluble Analysis 300.0 20 21139 03/09/22 12:55 CH XEN MID

Lab Sample ID: 890-2040-3 Client Sample ID: BH02

Date Collected: 03/03/22 11:10 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 23:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		10			21139	03/09/22 09:22	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-2040-4

Date Collected: 03/03/22 11:20 Matrix: Solid Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID

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Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Lab Sample ID: 890-2040-4

Matrix: Solid

Client Sample ID: BH02 Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 09:31	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-5 **Matrix: Solid**

Date Collected: 03/03/22 11:37 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		10			21139	03/09/22 09:40	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-6

Date Collected: 03/03/22 11:40 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 10:06	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-2040-7

Date Collected: 03/03/22 09:25 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:05	AJ	XEN MID

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Client: WSP USA Inc.

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Project/Site: RDU 11

Lab Sample ID: 890-2040-7

Client Sample ID: BH04 Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	21026	03/07/22 10:38	СН	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:05	CH	XEN MID

Lab Sample ID: 890-2040-8

Matrix: Solid

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Client Sample ID: BH04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:23	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-9 **Matrix: Solid**

Date Collected: 03/03/22 09:35

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:29	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-10

Date Collected: 03/03/22 09:40 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 02:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:52	CH	XEN MID

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Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH06 Lab Sample ID: 890-2040-11

Date Collected: 03/03/22 09:45 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 03:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:58	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-2040-12

Date Collected: 03/03/22 09:50 **Matrix: Solid** Date Received: 03/03/22 15:10

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20908 Total/NA Prep 4.98 g 5 mL 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 03/10/22 03:50 KLXEN MID Analysis 1 5 mL 21187 Total/NA Total BTEX 21336 03/10/22 16:12 AJ XEN MID Analysis 1 Total/NA Analysis 8015 NM 21529 03/14/22 12:12 XEN MID Total/NA 20924 XEN MID Prep 8015NM Prep 10.02 g 03/04/22 15:08 DM 10 mL Total/NA Analysis 8015B NM 21381 03/12/22 03:14 AJ XEN MID Soluble XEN MID Leach DI Leach 4.96 g 50 mL 21026 03/07/22 10:38 CH Soluble Analysis 300.0 21137 03/09/22 17:16 CH XEN MID

Lab Sample ID: 890-2040-13 **Client Sample ID: BH07**

Date Collected: 03/03/22 09:55 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:21	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2040-14

Date Collected: 03/03/22 10:00 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID

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3/14/2022

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Lah Sample ID: 890-2040-14

Client Sample ID: BH07

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10 Lab Sample ID: 890-2040-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	21026	03/07/22 10:38	СН	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:27	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2040-15

Date Collected: 03/03/22 10:05 Date Received: 03/03/22 15:10

Batch Batch Dil Initial Final Batch Prepared Method Amount Number **Prep Type** Type Run Factor Amount or Analyzed Analyst Lab Prep Total/NA 5035 4.99 g 5 mL 20908 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 5 mL 21187 03/10/22 04:51 KL XEN MID Analysis 1 Total/NA Analysis Total BTEX 1 21336 03/10/22 16:12 AJ XEN MID Total/NA 8015 NM 21529 03/14/22 12:12 XEN MID Analysis ΑJ 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 20924 03/04/22 15:08 DM XEN MID Total/NA 8015B NM 21381 03/12/22 04:18 XEN MID Analysis AJ 1 Soluble Leach DI Leach 5.01 g 50 mL 21026 03/07/22 10:38 CH XEN MID Soluble Analysis 300.0 1 21137 03/09/22 17:33 CH XEN MID

Client Sample ID: BH08

Date Collected: 03/03/22 10:10

Lab Sample ID: 890-2040-16

Matrix: Solid

Date Received: 03/03/22 15:10

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.98 g 5 mL 20908 03/07/22 12:57 KL XEN MID Total/NA 8021B 5 mL 5 mL 21187 03/10/22 05:11 KL XEN MID Analysis 1 XEN MID Total/NA Analysis Total BTEX 1 21336 03/10/22 16:12 A.I Total/NA Analysis 8015 NM 21529 03/14/22 12:12 AJ XEN MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 20924 03/04/22 15:08 DM XEN MID Total/NA Analysis 8015B NM 21381 03/12/22 04:40 A.I XEN MID 1 Soluble Leach DI Leach 5.05 g 50 mL 21026 03/07/22 10:38 СН XEN MID Soluble Analysis 300.0 21137 03/09/22 17:39 CH XEN MID 1

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	20924 21381	03/04/22 15:08 03/12/22 05:01	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Page 37 of 49

Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Project/Site: RDU 11 SDG: 314

Client Sample ID: BH09

Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15

Matrix: Solid

Date Collected: 03/03/22 10:15

Date Received: 03/03/22 15:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	СН	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:45	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2040-18

Date Collected: 03/03/22 10:25 Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:03	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-19

Date Collected: 03/03/22 10:30 Matrix: Solid
Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:09	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-20

Date Collected: 03/03/22 10:35 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 06:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:26	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

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Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Laboratory: Eurofins Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NI	ELAP	T104704400-21-22	06-30-22
The following analytes:	are included in this report. bu	it the laboratory is not cortifi	ied by the governing authority. This list ma	av include analytee for
0 ,	. ,	at the laboratory is not certifi	led by the governing authority. This list his	ay include analytes for
the agency does not off Analysis Method	. ,	Matrix	Analyte	ay include analytes for
the agency does not off	er certification.	•	, , ,	ay include analytes for

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Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: WSP USA Inc.
Project/Site: RDU 11 SDG: 3140

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2040-1	BH01	Solid	03/03/22 11:05	03/03/22 15:10	2
890-2040-2	BH01	Solid	03/03/22 11:07	03/03/22 15:10	4
890-2040-3	BH02	Solid	03/03/22 11:10	03/03/22 15:10	0.5
890-2040-4	BH02	Solid	03/03/22 11:20	03/03/22 15:10	4
890-2040-5	BH03	Solid	03/03/22 11:37	03/03/22 15:10	2
890-2040-6	BH03	Solid	03/03/22 11:40	03/03/22 15:10	4
890-2040-7	BH04	Solid	03/03/22 09:25	03/03/22 15:10	0.5
890-2040-8	BH04	Solid	03/03/22 09:30	03/03/22 15:10	4
890-2040-9	BH05	Solid	03/03/22 09:35	03/03/22 15:10	0.5
890-2040-10	BH05	Solid	03/03/22 09:40	03/03/22 15:10	4
890-2040-11	BH06	Solid	03/03/22 09:45	03/03/22 15:10	0.5
890-2040-12	BH06	Solid	03/03/22 09:50	03/03/22 15:10	4
890-2040-13	BH07	Solid	03/03/22 09:55	03/03/22 15:10	0.5
890-2040-14	BH07	Solid	03/03/22 10:00	03/03/22 15:10	4
890-2040-15	BH08	Solid	03/03/22 10:05	03/03/22 15:10	0.5
890-2040-16	BH08	Solid	03/03/22 10:10	03/03/22 15:10	4
890-2040-17	BH09	Solid	03/03/22 10:15	03/03/22 15:10	0.5
890-2040-18	BH09	Solid	03/03/22 10:25	03/03/22 15:10	4
890-2040-19	BH10	Solid	03/03/22 10:30	03/03/22 15:10	0.5
890-2040-20	BH10	Solid	03/03/22 10:35	03/03/22 15:10	4

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Company Name:

Chain of Custody

	0	Chain of Custody	Work Order No:
	Houston, TX (281) 240-4200 [Houston,TX (281) 240-4200 Dallas.TX (214) 902-0300 San Antonio,TX (210) 509-3334	
DRATORIES	Midland, TX (432-704-5440)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	
	Hobbs, NM (575-392-7550) Phoenix, AZ (4	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 Page of 2
Joseph Hernandez	Bill to: (if different) Jim Raley	Jim Raley	Work Order Comments
WSP	Company Name	WPX Energy	Program: UST/PST PRP Brownfields RRC Superfund
3300 North A Street	Address	5315 Buena Vista Dr.	State of Project:
Midland TX 79705	City, State ZIP	Carlsbad, NM 88220	Reporting:Level II DLevel III PST/UST PRRP Level IV

Decree Data 061419 Doc. 2019 1		6									5
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Received by: (Signature) Date/Time	(Signature)	Relinquished by		Date/Time	Da	(e)	Received by: (Signature)	Received		y⊹(Signature)	Relinquished by: (Signature)
nd conditions and the control gotiated.	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.	affiliates and subcontract by the client if such los lalyzed. These terms wil	incurred incurred out not ar	expenses Xenco, k	stient complex or losses or abmitted to	rchase order from o sponsibility for any for each sample su	titutes a valid pur t assume any res nd a charge of \$5	samples const es and shall no each project ar	uishment of ost of sample e applied to	document and reline e liable only for the c harge of \$75.00 will t	Notice: Signature of this of service. Xenco will b of Xenco. A minimum c
1631 / 245.1 / 7470 / 7471 : Hg	Pb Mn Mo Ni Se Ag Tl U	Cd Cr Co Cu Pb	ВеС	As Ba	RA Sb	P 6010: 8RCRA	TCLP / SPLP 6010:	alyzed	to be and	Circle Method(s) and Metal(s) to be analyzed	Circle Methoa
K Se Ag SiO2	Cu Fe Pb Mg Mn Mo Ni	입	Be	As Ba	Al Sb	PM Texas 11	8RCRA 13PPM	8	6020:	3010 200.8 / 6020:	Total 200.7 / 6010
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			×	×	×	0.5	9:35	3.3.22	S	5	вно5
			×	×	<u> </u>	4	9:30	3.3.22	S	04	BH04
			×	×	×	0.5	9:25	3.3.22	S)4	ВН04
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			×	×	×	2	11:37	3.2.22	S	03	вноз
			×	×	×	4	11:20	3.2.22	s)2	ВН02
			×	×	×	0.5	11:10	3.2.22	S)2	ВН02
			×	×	×	4	11:07	3.2.22	S	01	BH01
			×	×	1 ×	2	11:05	3.2.22	S	2	BH01
Sample Comments			Chloric	втех (Numb	Depth (Feet)	Time Sampled	Date Sampled	Matrix	ntification	Sample Identification
lab, if received by 4:30pm			le (E	EPA			Total Containers:	Total	o (N/A	als: Yes No	Sample Custody Seals:
TAT starts the day received by the	090-2010		PA :	0=8		0.2	Correction Factor:	Corre	O NIX	ls: Yes No	Cooler Custody Seals:
	200-2040 Chain of Custody		300.0	021)		7	8.5	11/2	8	₹es)	Received Intact:
))		iner		Thermometer ID			7 1.0	Temperature (°C):
					S	(Yes) No	Wet Ice:	(Yes)No	Temp Blank:		SAMPLE RECEIPT
API: PA.2021.04159.EXP.01						ate:	Due Date			Gilbert Moreno	Sampler's Name:
AFE							Rush	28551205	78,nAB17	nAB1728553778,nAB1728551205	Incident ID
CC 1137631001						***	Routine	0.035	, 3140336	31403360.036, 31403360.035	Project Number:
1	ANALYSIS REQUEST	ANALYS		_		Turn Around	Tur			RDU 11	Project Name:
DD ADaPT Other:	Deliverables: EDD				/sp.com	Anna.Byers@wsp.com	Email			281-702-2329	Phone
Levei Heliosi 4	Reporting:Level	0	M 8822	Carlsbad, NM 88220	Carl	City, State ZIP			705	Midland, TX 79705	City, State ZIP:

Address: City, State ZIP:

Midland, TX 79705 3300 North A Street Company Name:

WSP

Joseph Hernandez

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www.xenco.com

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Work Order Comments

PRRP ☐evel IV Other:

Superfund

Chain of Custody

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 : (if different) 5315 Buena Vista Dr WPX Energy Jim Raley Carlsbad, NM 88220 Reporting:Level III Level III Level III Program: UST/PST □PRP □Brownfields □RC State of Project:

Revised Date 051418 Rev. 2018 1			6								Sh
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)		Date/Time	Dat	3)	Received by: (Signature)	Received		y: (Signature)	Relinquished by: (Signature)
	inces beyond the control viously negotiated.	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.	ncurred by	expenses i	losses or a	onsibility for any or each sample su	it assume any resp id a charge of \$5 fo	es and shall no each project ar	st of sample applied to	e liable only for the co	of service. Xenco will b of Xenco. A minimum c
	d terms and conditions	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	nco, its affi	any to Xer	lient comp	hase order from c	Itutes a valid purc	samples cons	uishment of	document and reling	Notice: Signature of this
1631 / 245.1 / 7470 / 7471 : Hg	TI U	d Cr Co Cu Pb Mn Mo Ni Se Ag	Be Cd	As Ba	Sb	TCLP / SPLP 6010: 8RCRA	TCLP / SPLP	alyzed	to be ana	Circle Method(s) and Metal(s) to be analyzed	Circle Method
Sn U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V	Cd Ca Cr Co Cu Fe	Be B	As Ba	Al Sb	M Texas 11	8RCRA 13PPM	8	020:	5010 200.8 / 6020:	Total 200.7 / 6010
			×	×	1 ×	4	10:35	3.3.22	S	10	BH10
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Sample Comments	Sai		Chlorid	втех (Number	Depth (Feet)	Time D	Date Sampled	Matrix	ntification	Sample Identification
lab, if received by 4:30pm	la b.		le (E	+	-		Total Containers:	Tota	NIA	eals: Yes No	Sample Custody Seals:
TAT starts the day recevied by the	TAT stan		PA 3	-		€ 0.2	Correction Factor:	Corre	° N∌	als: Yes No	Cooler Custody Seals
			00.0	+			Jan Ja	7 . 1	No	Yes	Received Intact:
)		ner		Thermometer ID		1.0	1.27	Temperature (°C):
					S	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
API: PA.2021.04159.EXP.01	API: PA					ate:	Due Date:			Gilbert Moreno	Sampler's Name:
	AFE						Rush	728551205	78,nAB1	nAB1728553778,nAB1728551205	incident ID
17631001	CC 113					*	Routine	60.035	, 314033	31403360.036, 31403360.035	Project Number:
Work Order Notes	W	ANALYSIS REQUEST				Turn Around	Turn			RDU 11	Project Name:
Other:	ADaPT	Delivera			wsp.com	Anna.Byers@wsp.com,	Email A			281-702-2329	Phone
):	;						1				

Carlsbad, NM 88220

1089 N Canal St.

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Eurofins Carlsbad

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Chain of Custody Record

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Environment Testing
America

Project Name: RDU 11 State, Zip: TX, 79701 BH04 (890-2040-8) BH04 (890-2040-7) BH03 (890-2040-8) BH03 (890-2040-5) BH02 (890-2040-4) BH02 (890-2040-3) BH01 (890-2040-2) BH01 (890-2040-1) Sample Identification - Client ID (Lab ID Midland Phone 575-988-3199 Fax: 575-988-3199 vote 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 aboratory 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 altertion 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. BH05 (890-2040-9) 432-704-5440(Tel) Possible Hazard Identification 1211 W Florida Ave Eurofins Environment Testing Client Information (Sub Contract Lab) elinquished by Empty Kit Relinquished by elinquished by Deliverable Requested I II III IV, Other (specify) Custody Seals Intact: linquished by: npping/Receiving Yes ∆ No Custody Seal No South Centr Project #: 88000203 Phone # OM Due Date Requested 3/9/2022 Primary Deliverable Rank Date/Time Date/Time TAT Requested (days): Sample Date 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 Date Mountain 11 07 Mountain 09 35 Mountain 09 30 Mountain 09 25 Mountain 11 10 Mountain 11 37 Mountain 11 20 Mountain 11 40 Mountain Sample 11 05 Time (C=comp, G=grab Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid essica kramer@eurofinset com Mail Kramer Jessica Field Filtered Sample (Yes or No) NELAP - Texas lime. Accreditations Required (See note) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client — Disposal By Lah — Archive For Month Cooler Temperature(s) °C and Other Remarks. Received by Received by × × × 300 ORGFM 28D/DI LEACH Chloride × \times × × × × × × × × × × × × × B015MOD_NM/8015NM_S_Prep Full TPH 8021B/5035FP_Calc BTEX × × × × × × × × × × × × × × × × × × 8015MOD Calo Analysis Requested × Total_BTEX_GCV × × × × × × × × Disposal By Lab State of Origin.
New Mexico Carrier Tracking No(s) fethod of Shipment: Date/Time Archive For Æ, Total Number of containers A-HCL
B NaOH
C-Zn Acetate
D Nitric Acid
F-NaHSO4
F-MahSO4
F-MahOH
G Amchlor
H-Ascorbic Acid
I I ice
J-DI Water
K EDTA
L EDA Page Page 1 of 3 COC No: 890-652 1 Preservation Codes 890-2040-1 Special Instructions/Note: M Hexane
N None
O AsNaO2
P NaZO4S
Q NaZSO3
R NaZSO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Months

Ver: 06/08/2021

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

Eurofins Carlsbad

Chain of Custody Record

Client Information (Sub Contract Lab)				Kram	Kramer Jessica	ssica						٩	1	CAUGINO(S)	(8)			<u></u> α (890-652 2		
	Phone:			iessio	e-Mail	moral !	OIIIO	Fine	3			State	State of Origin	3 g				יס ס	Page:		
Company Eurofins Environment Testing South Centr				,	Accreditations Required (See note) NELAP - Texas	tations P - T	Requi	red (S	e note			ľ	ľ	ľ				<u>ه چ</u>	Job #: 890-2040-1		
	Due Date Requested 3/9/2022	n						l	Anal	lysis		Requested	Ě						Preservation Codes	· I	
	TAT Requested (days):	/s):										一					a		A HCL B - NaOH C Zn Acetate	M - Hexane N None O - AsNaO2	
State Zip: TX, 79701																		ппо	- Nitric Acid NaHSO4	P Na204S Q Na2SO3	
Phone: 432-704-5440(Tel)	PO#:) . [ie	TPH			<u></u>							nelso	T O T	- Amchlor	X - Na2SZC3 S H2SO4	
Email	#O#				mberra Willer Trans	Chloric	p Full										arresis in the		ice Di Water	U - Acetone V MCAA	
Project Name: RDU 11	Project #: R8000203					ACH	S_Pre	EX.									211276Access	ainer	L EDA	W - pH 4-5 Z other (specify)	
	SSOW#					DI_LE	5NM_	c BT									797min 20	Montaller	Other:		
					***************************************	28D/D	/8015										v Nobb'r	r of i			-
			Sample Type	Matrix (W=water S=solid,	i Filtered orm MS/I	ORGFM_2	MOD_NM/	B/6036FP	MOD_Cale	_BTEX_G							· Books · weeks and	l Numbe		W-1-1	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=Tissue, A=AI Preservation Code:		CORP. HORSE	30	80	200	- ala	10		**		- Congress	1			ATC	Special Ins	Special Instructions/Note:	- real
ВНО5 (890-2040-10)	3/3/22	09 40 Mountain	Park Linds (1978) St. D.	Solid		×	×	×	×	<u> </u>	dua		C mayor Si			huhm asil		_			E
BH06 (890-2040-11)	3/3/22	09 45 Mountain		Solid	_	×	×	×	×	×								-			
BH06 (890-2040-12)	3/3/22	09 50 Mountain		Solid		×	×	×	×	×								-			
BH07 (890-2040-13)	3/3/22	09 55 Mountain		Solid		×	×	×	×	<u>~</u>	_							-4			L
BH07 (890-2040-14)	3/3/22	10 00 Mountain		Solid		×	×	×	×	<u>×</u>								, 28 , 1			
BH08 (890-2040-15)	3/3/22	10 05 Mountain		Solid		×	×	×	×	<u>~</u>											
BH08 (890-2040-16)	3/3/22	10 10 Mountain		Solid		×	×	×	×	×								2			
BH09 (890-2040-17)	3/3/22	10 15 Mountain		Solid		×	×	×	×	<u>×</u>											1
BH09 (890-2040-18)	3/3/22	10 25 Mountain		Solid	-	×	×	×	×	×								2			
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 aboratory 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 Centra ve for analysis/tests/r ral LLC attention imu	il LLC places th matrix being and mediately If all	ne ownership of alyzed, the sam requested accr	method, analy ples must be a editations are	yte & ac shipped current	credit back to dat	ation on to the I	omplia Eurofin	nce up s Envir signed	on out onmer Chain	subcor nt Testi of Cus	itract la ng Sou lody at	aborato th Cer lesting	ntral L to sai	This sa LC lab	ample orator plican	shipm y or o se to t	ent is ther ir	s forwarded under ch nstructions will be pro ns Environment Testi	iain-of-custody If the wided. Any changes to ing South Central LLC.	
Possible Hazard Identification Unconfirmed					Sa	∐p/e	l <mark>e Disposal (A f</mark> u Return To Client	osal To C	ient (A	e ma	∏be	asse Disp	assessed if san Disposal Bv Lab	if sa 3v La	mple	Sar		rchi.	Sample Disposal (A fee may be assessed if samples are retained longer than 1. Return To Client Disposal By Lab Archive For	month) Months	
Deliverable Requested I, II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Ş	ecial	Special Instructions/QC	ıction	s/QC	Req	Requirements	she									
Empty Kit Relinquished by:		Date			Time.				<i>,</i>			ı	Meth	Method of Shipment:	Shipm	ent:					
Relinquished by Cloth (NH S422)	Date/Time		Ω	Company		Rece	Received by	4	FA	1	l		l	ĺ		A Time	2		ان ائن	company (i)	1
Relinquished by	Date/Time		Ω	Company		Rece	Received by	۲	9			-			Date/Time	Time		ľ		Company	
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Custody Seals Intact Custody Seal No						Cool	er Terr	peratu	Cooler Temperature(s) °C		and Other Remarks	Remark	S		I		l				
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Environment Testing America

💸 eurofins

Ver: 06/08/2021

Eurofins Carlsbad 1089 N Canal St.

💸 eurofins

Environment Testing America

Chain of Custody Record

Carlsbad, NM 88220 Phone 575-888-3199 Fax 575-988-3199		2110	Cust	tody Necold	6									I	ı	ı	ı	ı	ı	ı			America
Client Information (Sub Contract Lab)	vampier			Krame	Lab PM Kramer, Jessica	ssica							Carrier Tracking No(s)	r Trac	king	No(s)				ထွ ဥ	COC No: 890-652 3		
Client Contact: Shipping/Receiving	Phone [,]			E-Mail jessic	E-Mail jessica kramer@eurofinset.com	ner@	eurc	finse	ř. cor	3			State of Origin New Mexico	Mex of Oni	gi gi					ָּטֶ טַ	Page: Page 3 of 3		
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	tations P - T	Requ	ired (See no)te				l						ထွင	Job #: 890-2040-1		
Address. 1211 W Florida Ave,	Due Date Requested 3/9/2022	a							_≥	Analysis		Requested	ues	ted							Preservation Codes	des	
City: Midland	TAT Requested (days):	ys):																	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	O B >	NaOH) Z Z	None AsNaO2
State, Zip: TX, 79701																			¥-,,	imo		יעסי	P - Na2O4S Q Na2SO3
Phone: 432-704-5440(TeI)	P0#:)	le	TPH												17	ro⊤	G - Amchlor	⊣ ω π	K - Na2S2O3 S H2SO4 T TSB Dodecabodcate
Email·	WO#-				5736000H0000	Chlori	p Full													HARRING		< c ·	U - Acetone V MCAA
Project Name: RDU 11	Project #: 88000203				000000000000000000000000000000000000000	EACH	S_Pre	ΈX											taine	X	EDA	N §	other (specify)
Site	ssow#				W898.000.00	D/DI_L	15NM	alc B		v									of cor	B. Mills	Other:		
			Sample		d Filtered S orm MS/M	ORGFM_28	MOD_NM/80	B/6036FP_C	MOD_Calc	_BTEX_GC									l Number e	T		- 1	
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) B1	BT=Tissue, A=Air)	Kanada da	300_	801	802	8016	Tota									Tota		Special	İnsti	Special Instructions/Note:
	X		Preservation Code:	on Code:	$\stackrel{X}{ imes}$					nan			y novds					4	∇	Δ		V	
BH10 (890-2040-19)	3/3/22	10 30 Mountain		Solid		×	×	×	×	X									د	72.3			
BH10 (890-2040-20)	3/3/22	10 35 Mountain		Solid		×	×	×	×	X										-			
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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 attention immediately.	t Testing South Centra ove for analysis/tests/ ntral LLC attention im	al, LLC places the matrix being and mediately If all	ne ownership or alyzed the sam	method analyples must be reditations are	te & ac shipped	credit back to dat	ation of	im the	ance u ins En	vironr	out sut	contr	act lat	orato n Cen	mires to sa	TCIS	samp	le sh	pme	er in	forwarded under structions will be	chair	n-of-custody If the ded Any changes to
Possible Hazard Identification					Sa	mple	Dis	oosa	Â	fee	_ay	_be a	sses	sed	if se	de	esa	76	- ea	nec	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	1 3	onth)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Sp	Special Instructions/QC	ial Instructions/QC	uctio	ns/Q		Requirements	mer	ents	odi b	7	٦		-	Ì	12	AICHIVE FOI		MONINS
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Custody Seals Intact Custody Seal No						Cool	Cooler Temperature(s) °C and Other Remarks.	npera	lure(s)	°C ar	d Oth	er Re	marks	Ċ		Ī						-	

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

Login Number: 2040 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	

3

4

6

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4.6

13

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

List Source: Eurofins Midland List Creation: 03/04/22 01:21 PM

Login Number: 2040 List Number: 2 Creator: Lowe, Katie

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

District III

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

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 95629

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 95629
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Horizontal delineation of the releases will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts. Base and sidewalls confirmation samples must be collected and analyzed for parameters listed in Table I of 19.15.29.12 NMAC.	10/4/2022
bhall	The OCD approves a confirmation sample size variance of up to but no more than 400 square feet per sample.	10/4/2022
bhall	Any on-site ex-situ treatment option must have a plan submitted and approved by the OCD prior to implementation.	10/4/2022
bhall	The deferral request for nAB1632647780 has been denied. This release has not been fully delineation per 19.15.29.12 NMAC. Samples from past releases cannot be used for delineation of release that happened at a later date.	10/4/2022
bhall	It is recommended that individual reports for all incidents be submitted especially when variances, deferrals, etc. are requested.	10/4/2022
bhall	2RP-4431 closed. Please refer to incident #nAB1728551205 in all future communications.	10/4/2022