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

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

_)

Incident ID	nAPP2124237477
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.raley@dvn.com	Incident # (assigned by OCD) nAPP2124237477
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0492119_

Longitude -103.8823973

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: TUCKER DRAW 9 4 FEDERAL COM #001H	Site Type: Oil Production Facility
Date Release Discovered: Aug 28 th , 2021	API# (if applicable) 30-015-44477

Unit Letter	Section	Township	Range	County
В	16	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Mater	ial(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
~ <u> </u>		

Cause of Release: 4 inch nipple on water leg of treater failed, resulting in release of approx. 5 bbls of produced water to lined secondary containment. Fluids were recovered with Vac truck.

BBL Estimate = Recovered Volume

Page 2

Incident ID	nAPP2124237477
District RP	
Facility ID	
Application ID	

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

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:James Raley	Title: Environmental Specialist
Signature:	Date:08/30/2021 Telephone:575-689-7597
OCD Only	
Received by:	Date:

Received by OCD: 11/24/2021 12:18:52 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 3 0J 10	10
Incident ID	nAPP2124237477	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>101 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 📈 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

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

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

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

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

Form C-141	21 12:18:52 PM State of New Mexico			Page 4 of 2
			Incident ID	nAPP2124237477
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
public health or the environm failed to adequately investigation		OCD does not relieve the eat to groundwater, surf fresponsibility for comp	e operator of liability sh ace water, human health oliance with any other fe ental Profession	ould their operations have or the environment. In ederal, state, or local laws

Page 6

Oil Conservation Division

		Page 5 of 1	08
	Incident ID	nAPP2124237477	
ſ	District RP		
ſ	Facility ID		
ſ	Application ID		

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Title: Environmental Professional Printed Name: Jim Raley ____ Signature: Date: 11/24/2021 Telephone: 575-689-7597 _{email:} jim.raley@dvn.com **OCD Only** Date: 12/22/2021 Chad Hensley Received by: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: ______ Date: 12/22/2021 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

.

WSP USA

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

November 21, 2021

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

RE: Closure Request WPX Energy Permian, LLC. Tucker Draw 9 4 Federal Com #001H Incident Number nAPP2124237477 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc (WSP), on behalf of WPX Energy Permian, LLC. (WPX) presents the following Closure Request detailing soil sampling activities at the Tucker Draw 9 4 Federal Com #001H (Site) located in Unit B, Section 16, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the soil sampling activities was to assess the presences or absence of impacts to soil following an August 28, 2021 release of produced water. Based on the results of the soil sampling events, WPX is submitting this Closure Request, describing site assessment and delineation activities that have occurred and requesting no further action (NFA) for Incident Number nAPP2124237477.

RELEASE BACKGROUND

On August 28, 2021, a 4-inch nipple on a water leg of a treater failed and resulted in the release of approximately 5 barrels (bbls) of produced water into the lined secondary containment. A vacuum truck was immediately dispatched and recovered approximately 5 bbls of produced water from the lined secondary containment. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on August 30, 2021 and was subsequently assigned Incident Number nAPP2124237477.

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District II Page 2

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). depth to groundwater at the Site is estimated to be greater than 100 feet bgs based on soil boring MW-1, associated with Ross Draw Unit (RDU) 16-25, that was drilled by Talon LPE on December 10, 2020. The soil boring is located approximately 0.61 miles southwest of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of approximately 110 feet bgs. Groundwater was not observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The boring log is included as Attachment 1.

Regionally, WPX installed six other borings in the vicinity of the Site in December 2020 ((RDX 21-43 (MW-1), RDX 17-3 (MW-1), RDX 17-44 (MW-1), RDU 55 (MW-1), RDU #38 (MW-1), and RDU 57 (MW-1)). All borings were within a 5 mile radius of the Site and depth to water results for all six indicated groundwater was not encountered within 105 feet of the ground surface. Two other water wells, United States Geological Survey (USGS) well number 320125103514701 and New Mexico Office of the State Engineer (OSE) well number C 02165, indicate depth to water has been measured in the last 25 years and the most recent data indicated groundwater levels of 117 feet and 180 feet bgs, respectively. Regionally, depth to water appears to be greater than 100 feet bgs and therefore the depth to water estimate for the Site appears to be consistent with the regional data, thus a representative water well for estimating depth to water for the Site. Figure 1 depicts the nine water wells described above.

The closest continuously flowing or significant watercourse to the Site is an intermittent streambed located approximately 1,069 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a medium-potential karst area. Potential receptors identified during Site Characterization are displayed in Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

NSD

District II Page 3

- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

LINER INSPECTION

On September 3, 2021, WSP personnel visited the Site to visually inspect the lined secondary containment for any signs of holes or tears that would act as a conduit to subsurface soil. The subsequent visual inspection of liner integrity determined the liner was not in working condition. Based on the site assessment and visual observations, delineation activities were warranted to investigate potential soil impacts. WPX is scheduled to patch the impaired liner following assessment activities provided by WSP. Photographic documentation during the liner inspection is included as Attachment 2.

DELINEATION SOIL SAMPLING ACTIVITIES

On October 28, 2021, WSP personnel conducted delineation activities to confirm the presence or absence of impacted soils as a result of the impaired liner. Utilizing a hand auger, WSP installed one delineation soil sample within the breach area (BH01) to determine the vertical extent of potential impacts and six delineation soil samples (BH02 through BH07) outside of the containment to investigate lithology and confirm lateral delineation. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each of the borehole locations: the sample with the highest observed field screening concentrations (approximately 1 to 3 feet bgs) and the greatest depth (approximately 5 feet bgs). The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Euorfins) 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. The delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2. Field screening results and observations for the boreholes were recorded on lithologic/soil sampling logs and are presented in Attachment 3.

District II Page 4

ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in all delineation soil samples and at both depths. Limited chloride was detected at approximately 1 foot bgs within the breach area (BH01); however, the concentration was in compliance with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

WSP personnel advanced seven boreholes (BH01 through BH07) within and around the release extent to a total depth of approximately 5 feet bgs in order to assess the presence or absence of soil impacts resulting from the August 28, 2021 produced water release. Laboratory analytical results for all delineation soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, lateral and vertical definition of the release is below the most stringent Closure Criteria.

While chloride was present within the breached area of the liner (BH01), the concentration was in compliance with the Closure Criteria. In addition, WPX is scheduling repairs to the impaired liner to help prevent future releases to the ground surface and act as a barrier for surface infiltration of precipitation that might mobilize and vertically migrate residual chloride in soil beneath the secondary containment. Assessment and delineation activities have confirmed the absence of impacts to the subsurface resulting from the August 2021 release and efforts to mitigate the release, including the removal of free-standing fluid via a hydrovac, has been protective of human health, the environment, and groundwater. As such, WPX is requesting NFA of Incident Number nAPP2124237477.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel R. Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

myn S. Holy

Joseph S. Hernandez Associate Consultant, Geologist

Daniel R. Moir, P.G. Lead Consultant, Geologist



District II Page 5

cc: Jim Raley, Devon Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations

Table 1Soil Analytical Results

Attachment 1 Water Well Record

Attachment 2 Photographic Log

Attachment 3 Lithologic/Soil Sampling Log

Attachment 4 Laboratory Analytical Reports

FIGURES

Released to Imaging: 12/22/2021 9:17:30 AM



Released to Imaging: 12/22/2021 9:17:30 AM

P:WPX-Devon\GIS\31403360.009.03_TUCKER DRAW 9 4 FEDERAL COM #001H\MXD\3140336.009.03_FIG01_SL_RECEPTOR_2021.mxd



TABLES

Table 1

Soil Analytical Results Tucker Draw 9 4 Federal Com #001H Incident Number nAPP2124237477 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Samples										
BH01	10/28/2021	1	< 0.00199	< 0.00398	298	<49.9	<49.9	298	298	3,860
BH01	10/28/2021	5	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	369
BH02	10/28/2021	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	351
BH02	10/28/2021	5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	43.3
BH03	10/28/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	299
BH03	10/28/2021	5	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	88.3
BH04	10/28/2021	2	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	186
BH04	10/28/2021	5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	46.9
BH05	10/28/2021	3	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	40.2
BH05	10/28/2021	5	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	88.0
BH06	10/28/2021	1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	65.1
BH06	10/28/2021	5	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	14.0
BH07	10/28/2021	3	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	28.4
BH07	10/28/2021	5	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	14.8

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

		HR	L						MONITORING W	ELL COMPLETIO	N DIAG	RAM
		CO	N P L	IAN	CE		Boring/Wel		W-1	Location: RDX 16	-25	
	14	S O	LU1		NS		Date:	12/10	0/2020	Client:	orgu	
Drilling Mo	ethod:		Sampling N	Method:			Logged By:		0/2020	WPX En Drilled By:	ergy	
	Air Rotar	у			one			J. Liı	nn, PG	Talon L	PE	
Gravel Pac	k Type: 0/20 san	d	Gravel Pac	k Depth Into	erval: bags		Seal Type:	lone	Seal Depth Interval: None	Latitude: 32.0399	004	
Casing Typ		Diameter:		Depth Inter				al Depth (ft. BC		Longitude:	004	
PVC		2-inch		0-105 f					10	-103.883		
Screen Typ PVC	e:	Slot: 0.010-ii	nch	Diameter: 2-inch		Interval: 110 ft	Well Total	Depth (ft. BGS)		Depth to Water (ft. BTOC): > 110	DTW Date 12/16	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID		y/Remarks	Wa Comp	ell
0 5 10 15 20	NM	L	D	N	N	NM	SW	NS	U	nk tan well graded with silt	+ + + +	
25 30 35	NM	L	D	N	N	NM	SP	NS		e poorly graded fine and		
40 45	NM	L	D	N	N	NM	SW	NS		d well graded sand gravel		
50 55	NM	L	D	Ν	Ν	NM	SP	NS	* • •	poorly graded fine and	I	
60 65 70 75 80 85 90 95 100 105 110	NM	L	D	N	N	NM	SP	NS	sand with minor r	poorly graded fine nedium and coarse D: 110' bgs		

\mathbf{i}		HR	L				BORI Boring/Wel		MONITORING W	ELL COMPLETIO	N DIAGRAM	
				IAN	C E		Ũ		W-1	Ross Draw U	Jnit #38	
	TM	S 0	L U 1		NS		Date:	12/8	8/2020	Client: WPX En	ergy	
Drilling Me			Sampling N				Logged By:			Drilled By:		
A Gravel Pacl	Air Rotai	у	Gravel Pac	k Depth Inte	one		Seal Type:	J. Li	nn, PG Seal Depth Interval:	Talon L	PE	
	0/20 Sar		Graver i ac	3 B	ags		N	lone	None 32.030300		00	
Casing Typ	e: /C	Diameter: 2-inch		Depth Inter 0-100 fe			Boring Tota	al Depth (ft. BC		Longitude: -103.871	338	
Screen Typ	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS	05):		DTW Date:	
PV	/C	0.010-ii	nch	2-inch	100-	105 ft		10	05	> 105	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion	
0 5 10 15	NM	L	D	N	N	NM	SW	NS	fine sand with m	pink to buff colored ninor medium and se sand		
20 25 30	NM	L	D	N	N	NM	SP	NS		pink poorly graded sand		
35 40 45 50 55 60 65	NM	L	D	N	N	NM	SP	NS		pale orange poorly fine sand		
70 75 80 85 90 95	NM	L	D	N	N	NM	SP	NS		poorly graded fine and		
100	NM	L	D	N	Ν	NM	SP	NS	Tan/pale brown/pal graded fine sand - 7			

		HR					BORI	NG LOG/	MONITORING W	ELL COMPLETION	N DIAGRA	AM
	\leq			IAN	C E		Boring/Wel		W-1	Location: RDX Federal C	am 21 42	
		S O			UC		Date:	M	- W - 1	Client:	om 21-43	
	TM	30	LU		1 2			12/9	9/2020	WPX End	ergy	
Drilling Me			Sampling 1				Logged By:		D G	Drilled By:	D.E.	
A Gravel Pack	Air Rotar	у	Carryal De a	k Depth Inte	one		Seal Type:	J. Lır	nn, P.G. Seal Depth Interval:	Talon L	PE	
	k Type: 0/20 San	nd	Gravel Pac		ags			lone	None	32.0225	71	
Casing Typ		Diameter:		Depth Inter				al Depth (ft. BC		Longitude:	/1	
PVC		2-inch		0-100 fe	eet bgs				10	-103.884		
Screen Type	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS		Depth to Water (ft. BTOC):		20
PVC	1	0.010-in	nch	2-inch	100 -	105 ft		10	05	> 105	12/16/20	020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	Well Complet	
0 5 10 15	NM	L	D	N	N	NM	SP	NS	e	poorly graded fine	•	
20	NM	Н	D	N	Ν	NM	CL	NS		le red clay, dry, with nd minor caliche		
25 30 35 40 45	NM	L	D	N	N	NM	SP	NS		e red poorly graded sand	- - -	
50 55 60	NM	L	D	N	N	NM	SP	NS	• •	orly graded fine sand silt and clay	-	
65 70 75	NM	L	D	N	N	NM	SP	NS		e red poorly graded n minor silt/clay	-	
80 85 90	NM	М	D	N	N	NM	SC	NS	-	olor fine sand with - and and clay -		
95	NM	Н	D	Ν	Ν	NM	CL	NS	Brown orange clay w	ith silt and fine sand		
100 105	NM	Н	D	N	N	NM	SC	NS	fine sand - TD Boring	puff colored clay with g: 110' BGS; Sand 110' ' BGS		

		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETION	N DIAGRAM	
	<			IAN	C E		Boring/Wel		W-1	Location: RDX 17	. #2	
							Date:	IVI	vv-1	Client:	#3	
	TM	30			1.0				/2020	WPX En	ergy	
Drilling Mo	ethod: Air Rotai		Sampling N				Logged By:		nn, PG	Drilled By: Talon L	DE	
Gravel Pac		y	Gravel Pac	k Depth Inte	erval:		Seal Type:	J. LII	Seal Depth Interval:	Latitude:	F L	
1	0/20 Sar				ags		N	one	None	32.0367	765	
Casing Typ PVC	be:	Diameter: 2-inch		Depth Inter 0-102 fe			Boring Tota	al Depth (ft. BC	6S):)7	Longitude: -103.895993		
Screen Typ	be:	Slot:		Diameter:	Depth 1	Interval:	Well Total	Depth (ft. BGS)			DTW Date:	
PVC	-	0.010-ii	nch	2-inch	102-	107 ft		1()7	> 107	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion	
0												
5												
10	NM	L	D	Ν	Ν	NM	SP	NS	Dale orange poor	ly graded fine sand		
15	11111	L	D	19	19	11111	51	IND	Tale of alige pool	Ty graded fille salid		
20												
25	1									•		
30	NIM	т	л	N	N	NIM	CD	NC	Same as above wi	th slight increase in		
35	NM	L	D	N	Ν	NM	SP	NS	coarse sand	d and gravel		
40												
45	NM	L	D	Ν	Ν	NM	SP	NS		ly graded fine sand / slight silt		
50	1								with very	siight sitt		
55	NM	L	D	Ν	Ν	NM	SP	NS	Pale orange poor	ly graded fine sand	†	
60	NM	L	D	Ν	Ν	NM	SW	NS	Pale orange well	l graded fine sand	†	
65	İ										t	
70	1										†	
75	NM	М	SL M	Ν	Ν	NM	SM	NS		ayey silty fine sand	†	
80	1								with minor coars	se sand and gravel	†	
85	1									·	†	
90											t	
95	1								Pale orange poorl	y sorted fine sand -	†	
100	NM	L	SL M	Ν	Ν	NM	SP	NS		7' BGS	†	
105	1									•		
105												

		HR	1				BORIN	NG LOG/N	MONITORING WI	ELL COMPLETION	DIAGRAM	
		C O	MPL		C E		Boring/Well		W-1	Location: RDX Federal Co	om 17-44H	
	75	ŠÖ	LUI		NS		Date:			Client:		
Drilling Me	ethod:		Sampling	Method:			Logged By:	12/8/	/2020	WPX End Drilled By:	ergy	
A	Air Rotar	у		No	one			J. Lin	n, PG	Talon L	PE	
Gravel Pacl	k Type: 0/20 Sar	nd	Gravel Pac	ck Depth Inte 3 B	erval: ags		Seal Type: No	one	Seal Depth Interval: None	Latitude: 32.049656		
Casing Typ		Diameter:		Depth Inter				Depth (ft. BGS):	Longitude:		
PVC Screen Typ		2-inch Slot:		0-105 ft Diameter:		Interval:	Wall Tatal D	epth (ft. BGS):		-103.904 Depth to Water (ft. BTOC):		
PVC	ic.	0.010-ii	nch	2-inch		110 ft	well Total D	21 (II. BGS):		> 110	12/16/2020	
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	Well Completion	
$ \begin{array}{c} 0\\ 5\\ 10\\ 15\\ 20\\ 25\\ 30\\ 35\\ 40\\ \end{array} $	NM	L	D	Ν	N	NM	CE	NS	Buff to pale pin	k colored caliche		
45 50 55 60	NM	L	D	N	N	NM	SW	NS		l graded sand with or silt		
65 70 75	NM	L	D	Ν	N	NM	SP	NS		range poorly graded ith minor silt		
80 85 90	NM	L	D	Ν	N	NM	SW-SM SW-SC	NS		ge well-graded sand and and clay		
95 100 105	NM	L	D	N	N	NM	SP	NS		range poorly graded • or silt - TD: 110' bgs •		

		HR					BORI	NG LOG/	MONITORING W	ELL COMPLETION	DIAGRAM
>				IAN	C F		Boring/Wel		W-1	Location: Ross Draw U	nit #55
		S N			NS		Date:	111	vv - 1	Client:	int #35
	TM	30			10				0/2020	WPX Ene	ergy
Drilling Me A	ethod: Air Rotar	v	Sampling N		one		Logged By:		nn, PG	Drilled By: Talon Ll	PE
Gravel Pack		. 9	Gravel Pac	k Depth Inte			Seal Type:		Seal Depth Interval:	Latitude:	
	0/20 Sar	nd Diameter:			lags			lone al Depth (ft. BC	None	32.0161	65
Casing Typ PVC	e:	2-inch		Depth Inter 0-101'7			Boring 1 ota		5): 5'7"	Longitude: -103.863	46
Screen Typ	e:	Slot:		Diameter:	Depth	nterval:	Well Total	Depth (ft. BGS):	Depth to Water (ft. BTOC):	DTW Date:
PVC		0.010-ii	nch	2-inch	101'7"	- 106'7"		106	5'7"	>106' 7"	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion
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	-	ell graded fine sand - Im and coarse sand -	
35 40 45 50 55 60	NM	L	D	N	Ν	NM	SP	NS	-	n 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	Ν	Ν	NM	SP	NS		ly graded fine sand minor medium sand	
100 106'7"	NM	М	D	Ν	Ν	NM	SC	NS		d with moderate silt TD 106'7"	

$\mathbf{>}$		HR					BORI Boring/Wel	l Number:		ELL COMPLETION	
		CO	MPL	IAN	CE		Date:	М	W-1	Ross Draw U	Jnit #57
	TM	2.0	LUI	IU	N S		Date.	12/9	9/2020	WPX En	ergy
Drilling Me			Sampling N				Logged By:		DC	Drilled By:	DE
A Gravel Pacl	Air Rotar	y	Gravel Pac	k Depth Inte	one erval:		Seal Type:	J. L1	nn, PG Seal Depth Interval:	Talon L	PE
1	0/20 Sar	nd		3 E	lags		N	lone	None	32.010	32
Casing Typ PVC	be:	Diameter: 2-inch		Depth Inter 0-105 fe			Boring Tota	al Depth (ft. BC	GS): 10	Longitude: -103.872	246
Screen Typ	e:	Slot:		Diameter:		Interval:	Well Total	Depth (ft. BGS			DTW Date:
PVC	r	0.010-ii	nch	2-inch	105-	110 ft		1	10	> 110	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completion
0 5 10 15 20 25 30 35	NM	L/M	D	N	N	NM	SM	NS	~ -	pale brown poorly fine sand	
40 45	NM	М	D	Ν	Ν	NM	SW	NS		x orange well graded	
50 55	NM	М	D	N	N	NM	SM	NS	Pale orange red	tan silty fine sand	
60 65	NM	L	D	N	N	NM	SW	NS	Dark brown greyis	sh well graded sand	
70 75 80 85 90 95	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well	graded sand	
100 105	NM	L/M	D	Ν	Ν	NM	SM	NS		pale brown poorly nd - TD 110' bgs	

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	PHOTOGRAPHIC LOG	
WPX Energy Permian,	Tucker Draw 9 4 Federal Com #001H	NAPP2124237477
LLC.	Eddy County, NM	

Date	
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ng the liner ned area.	

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			7		WS	P USA			BH or PH Name: BH01	Da	te: 10/28/2021	
				5	08 West S	Stevens S	Street		Site Name: Tucker Draw 9	4 Federal	Com # 001H	
				Car	Isbad, Nev	w Mexico	88220		RP or Incident Number: NA	APP212423	37477	
									WSP Job Number: 314033			
L at/L a	ng: 32.048				Field Scree		G		Logged By: EL Hole Diameter: 3 inches		ethod: Hand auger & Core Drill tal Depth: 5 feet bgs	
Lat/L0	ng. 52.040	5705, -100	5.07978		Hach chlor	0	PID		Those Diameter: 5 mones	10	tal Deptil. 3 leet bys	
M-moi	st; D-dry; `	Y-yes; N-ı	no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	Lithology/Remarks					
М	7,213	63.7	Y		0.5	0.5	SM		ROWN, FINE - MEDI ANT CALICHE GRAVI		AIN, WELL GRADED, SIL OR PRESENT.	.TY,
Μ	4,441	69.0	Ν	BH01	1	1	SM		ROWN, FINE - MEDI ANT CALICHE GRAVE		AIN, WELL GRADED, SIL OR PRESENT.	.TY,
М	3,164	16.2	Ν		2	2	SM		ROWN, FINE GRAIN E GRAVEL, ODOR PF		GRADED, SILTY, ABUN	DAN
Μ	1,904	24.2	Ν		3	3	SM		ROWN, FINE GRAIN E GRAVEL, NO ODOI		GRADED, SILTY, ABUN	DAN
М	1,697	65.1	Ν		4	4	SM		ROWN, FINE GRAIN E GRAVEL, ODOR PF		GRADED, SILTY, ABUN	DAN
М	476	4.3	Ν	BH01	5	5	SM		REDDISH BROWN, F E GRAVEL, SOME SI		AIN, WELL GRADED, SO PR PRESENT)ME
		l	1		L		TD	@ 5 ft bg	S			
	\searrow											
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<u> </u>												

٦					WS	P USA		B	3H or PH Name: I	BH02	Date: 10/28/2021
				5	08 West S	Stevens S	treet		Site Name: Tucke	r Draw 9 4 Fede	eral Com # 001H
				Car	Isbad, Nev	w Mexico	88220	F	RP or Incident Nu	mber: NAPP212	4237477
									NSP Job Number	: 31403360.009	
				GIC / SOII			G		Logged By: EL		Method: Hand auger & Core Drill
Lat/L	ong: 32.04	8949, -10	3.87993	35	Field Scree Hach chlor	0	PID	1	Hole Diameter: 3 i	inches	Total Depth: 5 feet bgs
						iao ouipo,	1.15				
M-mo	oist; D-dry;	Y-yes; N-	no	1	1	1		1			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/R	
Μ	394.8	0.4	N	BH02	1	1	SM	ABUNDA		GRAVEL, AB	RAIN, WELL GRADED, BUNDANT AGGREGATE
М	<179.2	2 0.4	Ν		2	2	SM	ABUNDA		GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE
М	<179.2	2 0.4	N		3	3	SM	ABUNDA		GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE
М	<179.2	2 0.5	N		4	4	SM	ABUNDA		GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE
М	<179.2	2 0.4	Ν	BH02	5	5	SM	ABUNDA		GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE
$\left \right $			-	-			TD	@ 5 ft bgs	6		
		\searrow									
			$\overline{\ }$								
				\searrow							
					$\overline{}$						
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										$\overline{}$	

WSP USA									BH or PH Nam	ne: BH03	[Date: 10/28/2021	
				5	08 West S	Stevens S	Site Name: Tucker Draw 9 4 Federal Com # 001H						
				Car	sbad, Nev	w Mexico	88220		RP or Incident Number: NAPP2124237477				
		1.1711			0.44401		WSP Job Number: 31403360.009 Logged By: EL Method: Hand auger & Core Drill						
Lat/Lo	ong: 32.048				Field Scree		9		Logged By: EL Hole Diameter			Viethod: Hand aug Total Depth: 5 fee	-
Edi/Ed	ng. 02.040				Hach chloi	0	PID			. o monoo			51 595
M-moi	ist; D-dry; \	∕-ves∙ N-r	10										
		, yoo, it i					×						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol						
М	319.2	0.3	N	BH03	1	<u> </u>	SM		ROWN, FIN NT CALICH				GRADED, SILTY,
Μ	179.2	0.3	Ν		2	2	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
М	<179.2	0.3	Ν		3	3	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
М	<179.2	0.5	Ν		4	4	SM	ABUNDA		HE GRAVE	EL, ABI	RAIN, WELL (UNDANT AG	
Μ	<179.2	0.5	Ν	BH03	5	5	SM	ABUNDA		HE GRAVE	EL, ABI	RAIN, WELL O UNDANT AGO	
								@ 5 ft bg					
											<u> </u>		

					ws	P USA			BH or PH Name	e: BH04	Date: 10/28/2021		
				5	08 West S	Stevens S	treet		Site Name: Tuc	ker Draw 9 4 Fede	eral Com # 001H		
				Car	Isbad, Nev	w Mexico	88220		RP or Incident Number: NAPP2124237477				
									WSP Job Number: 31403360.009				
		LITH	OLOG	SIC / SOII	SAMPL	ING LO	G		Logged By: EL		Method: Hand auger & Core Dril	d.	
Lat/Lo	ong: 32.048	757, -103	3.88027	7	Field Scre	ening:			Hole Diameter:	3 inches	Total Depth: 5 feet bgs		
					Hach chlor	ride strips,	PID						
M-mo	ist; D-dry; \	/-ves: N-r	าด										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks		
М	<179.2	0.3	N		1	1 	SM			E - MEDIUM G E GRAVEL, N	GRAIN, WELL GRADED, S O ODOR	ILTY,	
Μ	257.2	0.3	Ν	BH04	2	2	SM	ABUNDA	ANT CALICH		GRAIN, WELL GRADED, BUNDANT AGGREGATE		
Μ	<179.2	0.3	Ν		3	3	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
М	<179.2	0.3	Ν		4	4	SM	ABUNDA	ANT CALICH		GRAIN, WELL GRADED, BUNDANT AGGREGATE		
Μ	<179.2	0.3	Ν	BH04	5	5	SM	ABUNDA	ANT CALICH		GRAIN, WELL GRADED, BUNDANT AGGREGATE		
							TD	@ 5 ft bg	s				

					WS	P USA			BH or PH Nan	ne: BH05		Date: 10/28/20	21	
										Site Name: Tucker Draw 9 4 Federal Com # 001H				
				Car	Isbad, Nev	w Mexico	88220		RP or Incident Number: NAPP2124237477					
									WSP Job Number: 31403360.009					
		OLOG	SIC / SOII	SAMPL	ING LO	Logged By: El	L		Method: Hand	auger & Core Drill				
Lat/Lo	ong: 32.048	656, -103	3.88012	5	Field Scree	0			Hole Diameter	r: 3 inches	6	Total Depth: 5	feet bgs	
					Hach chlor	ide strips,	PID							
M-mo	ist; D-dry; `	Y-yes; N-r	າວ											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lith	nology/R	emarks		
М	<179.2	0.3	N		1	1	SM		ROWN, FII NT CALICI				GRADED, SILTY,	
М	<179.2	0.3	Ν		2	2	SM		ROWN, FII NT CALICI				_ GRADED, SILTY,	
Μ	319.2	0.3	Ν	BH05	3	3	SM		ROWN, FII NT CALICI				_ GRADED, SILTY,	
М	<179.2	0.3	Ν		4	4	SM		ROWN, FII NT CALICI				_ GRADED, SILTY,	
М	<179.2	0.4	Ν	BH05	5	5	SM	ABUNDA		HE GRA	AVEL, AB	RAIN, WELL BUNDANT A	_ GRADED, GGREGATE	
	TD @ 5 ft bgs													

WSP USA									BH or PH Name	e: BH06	Date: 10/28/2021		
				5	08 West S	Site Name: Tucker Draw 9 4 Federal Com # 001H							
				Car	lsbad, Nev	w Mexico	88220		RP or Incident Number: NAPP2124237477				
		1.1711			0.4.4.01				WSP Job Number: 31403360.009				
Lat/Lo	ng: 32.048				Field Scre		G		Logged By: EL Hole Diameter:	3 inches	Method: Hand auger & Core Drill Total Depth: 5 feet bgs		
Edi/Ed	ng. 02.040	0-10, -100	.01002		Hach chlor	0	PID			e monee	Total Doptil. O loor bgo		
M-moi	ist; D-dry; \	∕-ves∙ N-r	10										
		, yoo, it i					×						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks					
М	644.0	0.4	N	BH06	1	1 -	SM			E - MEDIUM G E GRAVEL, N	GRAIN, WELL GRADED, SILTY O ODOR		
М	<179.2	0.4	Ν		2	2	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
М	<179.2	0.5	Ν		3	3	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
Μ	<179.2	0.4	Ν		4	4	SM	ABUNDA	NT CALICH		GRAIN, WELL GRADED, BUNDANT AGGREGATE		
Μ	644.0	0.5	Ν	BH06	5	5	SM	ABUNDA	NT CALICH		GRAIN, WELL GRADED, BUNDANT AGGREGATE		

					ws	P USA			BH or PH Name:	BH07	Date: 10/28/2021		
				5	08 West S	Stevens S	Site Name: Tucker Draw 9 4 Federal Com # 001H						
				Car	lsbad, Nev	w Mexico	88220		RP or Incident Number: NAPP2124237477				
									WSP Job Number: 31403360.009				
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO	Logged By: EL		Method: Hand auger & Core Dri	ill			
Lat/Lo	ong: 32.048	8717, -103	3.87971	8	Field Scre				Hole Diameter: 3	inches	Total Depth: 5 feet bgs		
					Hach chlo	ride strips,	PID						
M-mo	ist; D-dry; ۱	r∕-yes; N-r	าด										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/R	emarks		
М	<179.2	0.3	N		1	1	SM		BROWN, FINE ANT CALICHE		RAIN, WELL GRADED, S O ODOR	SILTY,	
Μ	<179.2	0.4	Ν		2	2	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
М	<179.2	0.3	Ν	BH07	3	3	SM	SAND, BROWN, FINE - MEDIUM GRAIN, WELL GRADED, ABUNDANT CALICHE GRAVEL, ABUNDANT AGGREGATE GRAVEL, SOME SILT, NO ODOR					
Μ	<179.2	0.4	Ν		4	4	SM	ABUND		GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE		
Μ	<179.2	0.4	Ν	BH07	5	5		ABUND/ GRAVEI	ANT CALICHE	GRAVEL, A	RAIN, WELL GRADED, BUNDANT AGGREGATE		
								@ 5 ft bg	5				

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1503-1

Laboratory Sample Delivery Group: 31403360.009 Client Project/Site: Tucker Draw

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 11/9/2021 7:56:14 PM Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

LINKS **Review your project** results through **Total** Access Have a Question? Ask-The Expert Visit us at:

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Page 36 of 108

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
-	28
Definitions/Glossary

Client: WSP USA Inc. Project/Site: Tucker Draw Job ID: 890-1503-1 SDG: 31403360.009

Fillect/Site. Tu	SDG. 51405500.009	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
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		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
	Listed under the "D" column to designate that the result is reported on a dry weight basis	3
%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	1R
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	

Positive / Present Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Presumptive Quality Control

POS

PQL PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

4

5

Job ID: 890-1503-1 SDG: 31403360.009

Job ID: 890-1503-1

Project/Site: Tucker Draw

Client: WSP USA Inc.

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1503-1

Receipt

The samples were received on 10/29/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

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

GC Semi VOA

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.

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00202 U

<0.00202 U

<0.00202 U

<0.00403 U

RL

0.00202

0.00202

0.00202

0.00403

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

11/03/21 09:17

11/03/21 09:17

11/03/21 09:17

11/03/21 09:17

Job ID: 890-1503-1 SDG: 31403360.009

Client Sample ID: BH01B

Date Collected: 10/28/21 10:45 Date Received: 10/29/21 13:00

Sample Depth: 7

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Client: WSP USA Inc.

Project/Site: Tucker Draw

Lab Sample ID: 890-1503-1

Analyzed

11/03/21 12:47

11/03/21 12:47

11/03/21 12:47

11/03/21 12:47

Matrix: Solid

Solid	
oona	
	5
Dil Fac	
1	
1	
1	
1	
1	•
1	ð
Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13

		-							
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/03/21 09:17	11/03/21 12:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/03/21 09:17	11/03/21 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/03/21 09:17	11/03/21 12:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/03/21 09:17	11/03/21 12:47	1
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			11/01/21 14:19	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			11/03/21 08:46	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		11/01/21 14:48	11/03/21 03:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 03:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/01/21 14:48	11/03/21 03:43	1
o-Terphenyl	109		70 - 130				11/01/21 14:48	11/03/21 03:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		5.00		mg/Kg			11/03/21 13:54	1
lient Sample ID: BH02B							Lab Sar	nple ID: 890-	1503-2
ate Collected: 10/28/21 11:50								Matri	ix: Solid
ate Received: 10/29/21 13:00									
ample Depth: 7									
Method: 8021B - Volatile Organio	c Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 13:09	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/03/21 09:17	11/03/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/03/21 09:17	11/03/21 13:09	1

Client Sample Results

Limits

70 - 130

RL

RL

50.0

0.00399

MDL Unit

MDL Unit

mg/Kg

mg/Kg

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH02B

Date Collected: 10/28/21 11:50 Date Received: 10/29/21 13:00

Sample Depth: 7

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Job ID: 890-	1503-1
SDG: 314033	60.009

Lab Sample ID: 890-1503-2

Analyzed

11/03/21 13:09

Analyzed

11/03/21 12:38

Analyzed

11/03/21 08:46

Lab Sample ID: 890-1503-3

Matrix: Solid

Prepared

11/03/21 09:17

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

1

1

1

5

Method: 8015B NM - Diesel Ra	nge Organics (DRO) (GC)
Analyte	Result Qualifier

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

Method: Total BTEX - Total BTEX Calculation

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

<50.0 U

98

<0.00399 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/03/21 04:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/03/21 04:05	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/03/21 04:05	1
		0 ""					- ·		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/01/21 14:48	11/03/21 04:05	1
o-Terphenyl	119		70 - 130				11/01/21 14:48	11/03/21 04:05	1

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	67.3		4.98		mg/Kg			11/09/21 00:40	1

Client Sample ID: BH03B

Date Collected: 10/28/21 12:35 Date Received: 10/29/21 13:00 Sample Depth: 7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/21 09:17	11/03/21 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/03/21 09:17	11/03/21 13:29	1
1,4-Difluorobenzene (Surr)	75		70 - 130				11/03/21 09:17	11/03/21 13:29	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/21 12:38	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8		mg/Kg			11/03/21 08:46	

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.8 U

<49.8 U

<49.8 U

111

119

60.5

Result Qualifier

Qualifier

%Recovery

Client Sample Results

RL

49.8

49.8

49.8

RL

4.95

Limits

70 - 130

70 - 130

MDL

Unit

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

D

D

Prepared

11/01/21 14:48

11/01/21 14:48

11/01/21 14:48

Prepared

11/01/21 14:48

11/01/21 14:48

Prepared

Clier	nt: WSP	USA In	C.
Proje	ect/Site:	Tucker	Draw

Sample Depth: 7

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: BH04B

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Client Sample ID: BH03B Date Collected: 10/28/21 12:35

Date Received: 10/29/21 13:00

Job ID: 890-1503-1 SDG: 31403360.009

Lab Sample ID: 890-1503-3

Analyzed

11/03/21 04:28

11/03/21 04:28

11/03/21 04:28

Analvzed

11/03/21 04:28

11/03/21 04:28

Analyzed

11/09/21 00:47

Matrix: Solid

Dil Fac

5

Lab Sample ID: 890-1503-4

ate Collected: 10/28/21 13:35								Matri	ix: Solid
ate Received: 10/29/21 13:00									
ample Depth: 7									
Method: 8021B - Volatile Orgai	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/03/21 09:17	11/03/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/03/21 09:17	11/03/21 13:50	1
1,4-Difluorobenzene (Surr)	83		70 - 130				11/03/21 09:17	11/03/21 13:50	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			11/03/21 12:38	

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 11/03/21 08:46 mg/Kg Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 mg/Kg 11/01/21 14:48 11/03/21 04:50 1 (GRO)-C6-C10 **Diesel Range Organics (Over** <49.9 U 49.9 mg/Kg 11/01/21 14:48 11/03/21 04:50 1 C10-C28) 11/03/21 04:50 Oll Range Organics (Over C28-C36) <49.9 U 49 9 mg/Kg 11/01/21 14:48 1 Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analvzed 70 - 130 11/01/21 14:48 11/03/21 04:50 1-Chlorooctane 97 1 102 11/01/21 14:48 11/03/21 04:50 o-Terphenyl 70 - 130 1

Eurofins Xenco, Carlsbad

Released to Imaging: 12/22/2021 9:17:30 AM

		Clien	t Sample R	esults					
Client: WSP USA Inc.								Job ID: 890	-1503-1
Project/Site: Tucker Draw								SDG: 31403	360.009
Client Sample ID: BH04B							Lab San	nple ID: 890-	1503-4
Date Collected: 10/28/21 13:35									x: Solid
Date Received: 10/29/21 13:00									
Sample Depth: 7									
—									
Method: 300.0 - Anions, Ion Chr						_	- ·		
Analyte Chloride	Result 44.5	Qualifier		MDL	mg/Kg	D	Prepared	Analyzed 11/09/21 01:09	Dil Fa
	44.5		4.57		ilig/itg			11/03/21 01:03	
Client Sample ID: BH05B							Lab San	nple ID: 890-	1503-
Date Collected: 10/28/21 14:32								Matri	x: Solio
Date Received: 10/29/21 13:00									
Sample Depth: 7									
– Method: 8021B - Volatile Organi	c Compounds (CC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:10	
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:10	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:10	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/21 09:17	11/03/21 14:10	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:10	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/03/21 09:17	11/03/21 14:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				11/03/21 09:17	11/03/21 14:10	
1,4-Difluorobenzene (Surr)	93		70 - 130				11/03/21 09:17	11/03/21 14:10	
_ Method: Total BTEX - Total BTE	V Coloulation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401		0.00401		mg/Kg			11/03/21 12:38	
	0.00101	•	0.00101						
Method: 8015 NM - Diesel Range	e Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			11/03/21 08:46	
Method: 8015B NM - Diesel Ran	ge Organics (D								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9		49.9		mg/Kg		11/01/21 14:48	11/03/21 05:12	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 05:12	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 05:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				11/01/21 14:48	11/03/21 05:12	
o-Terphenyl	116		70 - 130				11/01/21 14:48	11/03/21 05:12	
_ Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
		Qualifier							
Analyte	Result	Quaimer	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Eurofins Xenco, Carlsbad

Job ID: 890-1503-1 SDG: 31403360.009

Client Sample ID: BH06B

Date Collected: 10/28/21 15:25 Date Received: 10/29/21 13:00

Sample Depth: 7

Client: WSP USA Inc.

Project/Site: Tucker Draw

Lab Sample ID: 890-1503-6

Matrix: Solid

Solid	3
	4
	5
Dil Fac 1 1	6
1 1	7
1 1	8
Dil Fac	9
1 1	10
)il Fac	11
1	12
)il Fac	13
1	14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:30	
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:30	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:30	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/21 09:17	11/03/21 14:30	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/21 09:17	11/03/21 14:30	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/21 09:17	11/03/21 14:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	127		70 - 130				11/03/21 09:17	11/03/21 14:30	
1,4-Difluorobenzene (Surr)	98		70 - 130				11/03/21 09:17	11/03/21 14:30	
Method: Total BTEX - Total BTEX	Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/21 12:38	
Method: 8015 NM - Diesel Range									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Fotal TPH	<49.9	U	49.9		mg/Kg	_		11/03/21 08:46	
Method: 8015B NM - Diesel Rang							_		
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil F
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 05:35	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 05:35	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/03/21 05:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane	116		70 - 130				11/01/21 14:48	11/03/21 05:35	
p-Terphenyl	125		70 - 130				11/01/21 14:48	11/03/21 05:35	
Method: 300.0 - Anions, Ion Chro									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil F
Chloride	17.8	_	5.00	_	mg/Kg	_		11/09/21 01:24	_
lient Sample ID: BH07B							Lab San	nple ID: 890-	1503-
ate Collected: 10/28/21 16:10								Matri	ix: Sol
ate Received: 10/29/21 13:00									
mple Depth: 7									
Method: 8021B - Volatile Organic	: Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F

welliou. 0021D - Volatile Organic	compounds (30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/21 09:17	11/03/21 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/03/21 09:17	11/03/21 17:34	1

Client Sample Results

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH07B

Date Collected: 10/28/21 16:10 Date Received: 10/29/21 13:00

Sample Depth: 7

Job ID: 890-1503-1
SDG: 31403360.009

Lab Sample ID: 890-1503-7

Analyzed

11/03/21 17:34

Matrix: Solid

Dil Fac

1

5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)										
Surrogate	%Recovery	Qualifier	Limits	Prepared						
1,4-Difluorobenzene (Surr)	101		70 - 130	11/03/21 09:17						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/21 12:38	1
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/03/21 08:46	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/01/21 14:48	11/03/21 05:57	1
GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/01/21 14:48	11/03/21 05:57	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/01/21 14:48	11/03/21 05:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130				11/01/21 14:48	11/03/21 05:57	
p-Terphenyl	109		70 - 130				11/01/21 14:48	11/03/21 05:57	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16.4		4.99		mg/Kg			11/09/21 01:31	1

Client: WSP USA Inc. Project/Site: Tucker Draw

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 **Client Sample ID** (70-130) (70-130) Lab Sample ID 890-1503-1 BH01B 117 97 890-1503-1 MS BH01B 109 100 890-1503-1 MSD BH01B 105 103 BH02B 890-1503-2 122 98 890-1503-3 BH03B 127 75 BH04B 890-1503-4 125 83 890-1503-5 BH05B 120 93 890-1503-6 BH06B 127 98 890-1503-7 BH07B 120 101 LCS 880-11348/1-A Lab Control Sample 106 103 LCSD 880-11348/2-A Lab Control Sample Dup 107 103 MB 880-11348/5-A Method Blank 112 97 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surro
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1495-A-1-H MS	Matrix Spike	99	99	
890-1495-A-1-I MSD	Matrix Spike Duplicate	102	115	
890-1503-1	BH01B	98	109	
890-1503-2	BH02B	109	119	
890-1503-3	BH03B	111	119	
890-1503-4	BH04B	97	102	
890-1503-5	BH05B	108	116	
890-1503-6	BH06B	116	125	
890-1503-7	BH07B	98	109	
LCS 880-11158/2-A	Lab Control Sample	101	104	
LCSD 880-11158/3-A	Lab Control Sample Dup	90	95	
MB 880-11158/1-A	Method Blank	103	114	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1503-1 SDG: 31403360.009

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11348/5-A Matrix: Solid										Client Sa	mple ID: Metho Prep Type: ⁻	
Analysis Batch: 11347											Prep Batc	h: 11348
	MB	MB										
Analyte	Result	Qualifier	RL		MDL	Unit		D	P	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg	J		11/0	3/21 09:17	11/03/21 12:28	1
Toluene	<0.00200	U	0.00200			mg/Kg	J		11/0	3/21 09:17	11/03/21 12:28	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg	9		11/0	3/21 09:17	11/03/21 12:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg	3		11/0	3/21 09:17	11/03/21 12:28	1
o-Xylene	<0.00200	U	0.00200			mg/Kg	J		11/0	3/21 09:17	11/03/21 12:28	1
Xylenes, Total	<0.00400	U	0.00400			mg/Kថ្	J		11/0	3/21 09:17	11/03/21 12:28	1
	MB	МВ										
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130						11/0	3/21 09:17	11/03/21 12:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130						11/0	3/21 09:17	11/03/21 12:28	1
Lab Sample ID: LCS 880-11348/1-A								С	lient	Sample I	D: Lab Control	Sample
Matrix: Solid											Prep Type:	
Analysis Batch: 11347											Prep Batc	h: 11348
· · ·			Spike	LCS	LCS						%Rec.	
Analyte			Added	Result	Qual	ifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.08441			mg/Kg		_	84	70 - 130	
Toluene			0.100	0.07901			mg/Kg			79	70 - 130	
Ethylbenzene			0.100	0.07884			mg/Kg			79	70 - 130	
m-Xylene & p-Xylene			0.200	0.1626			mg/Kg			81	70 - 130	
o-Xylene			0.100	0.08190			mg/Kg			82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-11348/2-A

Matrix: Solid alveie Retel

Analysis Batch: 11347								Batch:	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08773		mg/Kg		88	70 - 130	4	35
Toluene	0.100	0.08113		mg/Kg		81	70 - 130	3	35
Ethylbenzene	0.100	0.08209		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1703		mg/Kg		85	70 - 130	5	35
o-Xylene	0.100	0.08558		mg/Kg		86	70 - 130	4	35

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

Lab Sample ID: 890-1503-1 MS Matrix: Solid

Analysis Batch: 11347

Analysis batch: 11347									Fre	р Бассії. 11340
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U	0.0996	0.08222		mg/Kg		83	70 - 130	
Toluene	<0.00202	U	0.0996	0.07694		mg/Kg		77	70 - 130	

Eurofins Xenco, Carlsbad

Job ID: 890-1503-1

SDG: 31403360.009

atch:	11348	

Client Sample ID: BH01B
Prep Type: Total/NA
Prep Batch: 11348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1503-1 SDG: 31403360.009

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

Lab Sample ID: 890-1503-1 MS									Client Sam	ple ID: E	3H01E
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 11347									Prep	Batch:	11348
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00202	U	0.0996	0.07831		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	< 0.00403	U	0.199	0.1614		mg/Kg		81	70 - 130		
o-Xylene	<0.00202	U	0.0996	0.08164		mg/Kg		82	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								
Lab Sample ID: 890-1503-1 MSD)								Client Sam	ole ID: E	3H01F
Matrix: Solid										ype: To	
Analysis Batch: 11347										Batch:	
·····,····	Sample	Sample	Spike	MSD	MSD				%Rec.		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U	0.0994	0.09224		mg/Kg		93	70 - 130	11	3
Toluene	<0.00202	U	0.0994	0.08703		mg/Kg		88	70 _ 130	12	3
Ethylbenzene	<0.00202	U	0.0994	0.08669		mg/Kg		87	70 - 130	10	3
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1801		mg/Kg		91	70 - 130	11	3
o-Xylene	<0.00202	U	0.0994	0.09061		mg/Kg		91	70 - 130	10	3
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								
lethod: 8015B NM - Diesel	Range O	rganics (DF	RO) (GC)								
		<u></u>	-/(/								
Lab Sample ID: MB 880-11158/1	- A							Client S	Sample ID:		
Matrix: Solid										ype: To	
Analysis Batch: 11193									Prep	Batch:	1115
		MB MB									

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1
<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1
<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1
MB	MB							
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
103		70 - 130				11/01/21 14:48	11/02/21 20:41	1
	Result <50.0		Result Qualifier RL <50.0	ResultQualifierRLMDL<50.0	ResultQualifierRLMDLUnit<50.0	ResultQualifierRLMDLUnitD<50.0	Result Qualifier RL MDL Unit D Prepared <50.0	Result Qualifier RL MDL Unit D Prepared Analyzed <50.0

70 - 130

Lab Sample ID: LCS 880-11158/2-A
Matrix: Solid
Analysis Batch: 11193

114

Analysis Batch: 11193							Prej	p Batch: 11158
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	999.0		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	991.9		mg/Kg		99	70 - 130	
C10-C28)								

Eurofins Xenco, Carlsbad

11/02/21 20:41

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

11/01/21 14:48

o-Terphenyl

1

QC Sample Results

Client: WSP USA Inc. Project/Site: Tucker Draw

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

Lab Sample ID: LCS 880-11	158/2-A						Client	Sample	BID: Lab Co		
Matrix: Solid										Type: Tot	
Analysis Batch: 11193									Prep	Batch:	1115
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	104		70 - 130								
Lab Sample ID: LCSD 880-	11158/3-A					Clier	nt Sam	ple ID:	Lab Contro	Sample	e Du
Matrix: Solid										· Type: Tot	
Analysis Batch: 11193										Batch:	
			Spike	LCSD	LCSD				%Rec.		RF
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Gasoline Range Organics			1000	897.3		mg/Kg		90	70 - 130	11	2
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1021		mg/Kg		102	70 - 130	3	
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	95		70 - 130								
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
-		Qualifier U	•		Qualifier	<mark>Unit</mark> mg/Kg	<u>D</u>	%Rec 103			
Gasoline Range Organics	Result		Added	Result	Qualifier		<u>D</u>		Limits		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	U	Added	Result	Qualifier		<u> </u>		Limits		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	U	Added997	Result 1026	Qualifier	mg/Kg	<u>D</u>	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 <49.9	U	Added997	Result 1026	Qualifier	mg/Kg	<u>D</u>	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	U	Added997	Result 1026	Qualifier	mg/Kg	<u>D</u>	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Result <49.9 <49.9 MS	U U MS	Added	Result 1026	Qualifier	mg/Kg	D	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Result <49.9	U U MS	Added 997 997 Limits	Result 1026	Qualifier	mg/Kg	<u> </u>	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Result <49.9	U U MS	Added 997 997 <u>Limits</u> 70 - 130	Result 1026	Qualifier	mg/Kg	<u> </u>	103	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A	Result <49.9	U U MS	Added 997 997 <u>Limits</u> 70 - 130	Result 1026	Qualifier	mg/Kg		95	Limits 70 - 130 70 - 130): Matrix Sp		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid	Result <49.9	U U MS	Added 997 997 <u>Limits</u> 70 - 130	Result 1026	Qualifier	mg/Kg		95	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T	Type: Tot	tal/N
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid	Result <49.9	U U MS	Added 997 997 <u>Limits</u> 70 - 130	Result 1026	Qualifier	mg/Kg		95	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T		tal/N
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid	Result <49.9 <49.9 MS %Recovery 99 99 99 x-1-I MSD Sample	U U MS Qualifier Sample	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1026 964.5	Qualifier	mg/Kg	ient Sa	103 95 ample IE	Limits 70 - 130 70 - 130 9: Matrix Sp Prep T Prep %Rec.	Type: Tot Batch:	tal/N 1115
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte	Result <49.9	U MS <i>Qualifier</i> Sample Qualifier	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1026 964.5 MSD Result		mg/Kg		95	Limits 70 - 130 70 - 130 20 - 120 20 -	Batch:	tal/N 1118 RF
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics	Result <49.9 <49.9 MS %Recovery 99 99 99 x-1-I MSD Sample	U MS <i>Qualifier</i> Sample Qualifier	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1026 964.5 MSD	MSD	mg/Kg mg/Kg Cl	ient Sa	103 95 ample IE	Limits 70 - 130 70 - 130 9: Matrix Sp Prep T Prep %Rec.	Type: Tot Batch:	tal/N 1115 RF Lin
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	U U MS Qualifier Qualifier U	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130	Result 1026 964.5 MSD Result 1156	MSD	mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	103 95 ample IE <u>%Rec</u> 116	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T Prep %Rec. Limits 70 - 130	RPD	tal/N 111 RF Lin
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	U U MS Qualifier Qualifier U	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1026 964.5 MSD Result	MSD	mg/Kg mg/Kg Cl	ient Sa	103 95 ample IE %Rec	Limits 70 - 130 70 - 130 20 Matrix Sp Prep T Prep %Rec. Limits	Batch:	tal/N 111 RF Lin
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	U MS Qualifier Qualifier U	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130	Result 1026 964.5 MSD Result 1156	MSD	mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	103 95 ample IE <u>%Rec</u> 116	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T Prep %Rec. Limits 70 - 130	RPD	tal/N 1115 RF Lin
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	Result <49.9	U U MS Qualifier U U MSD	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130	Result 1026 964.5 MSD Result 1156	MSD	mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	103 95 ample IE <u>%Rec</u> 116	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T Prep %Rec. Limits 70 - 130	RPD	tal/N
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1495-A Matrix: Solid Analysis Batch: 11193 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	U U MS Qualifier U U MSD	Added 997 997 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 1026 964.5 MSD Result 1156	MSD	mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	103 95 ample IE <u>%Rec</u> 116	Limits 70 - 130 70 - 130 2: Matrix Sp Prep T Prep %Rec. Limits 70 - 130	RPD	tal/N 1115 RP Lim

Client: WSP USA Inc.

Project/Site: Tucker Draw

QC Sample Results

Job ID: 890-1503-1 SDG: 31403360.009

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11226/1-A Matrix: Solid												Client S	ample ID:		
													Prep	Type: S	Soluble
Analysis Batch: 11254		мв	MD												
Analyte	Б		Qualifier		RL		MDL	Unit		D	Dr	epared	Analy	rod	Dil Fac
Chloride		<5.00			5.00			mg/Kg		<u> </u>	FI	epareu			1
Chionde		-5.00	0		5.00			iiiy/ry					11/02/21	21.05	I
Lab Sample ID: LCS 880-11226/2-A Matrix: Solid										Cli	ent	Sample	ID: Lab C	ontrol S Type: S	
Analysis Batch: 11254													Prep	Type: 3	Solupie
Analysis Datch. 11204				Spike		LCS	LCS						%Rec.		
Analyte				Added	F	Result		fier	Unit		D	%Rec	Limits		
Chloride				250		252.5			mg/Kg			101	90 _ 110		
Lab Sample ID: LCSD 880-11226/3-/	4								Cli	ent S	Sam	ple ID: I	Lab Contro	ol Samp	ole Dur
Matrix: Solid														Type: S	
Analysis Batch: 11254															
•				Spike		LCSD	LCSD)					%Rec.		RPI
Analyte				Added	F	Result	Quali	fier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		254.4			mg/Kg			102	90 - 110	1	2
Lab Sample ID: 880-7902-A-3-B MS												Client	Sample ID		
Matrix: Solid													Frep	Type: S	Solubi
Analysis Batch: 11254	Sample	Sami	nlo	Spike		MS	MS						%Rec.		
	-	-		Added		Result		fior	Unit		D	%Rec	Limits		
Analyta												/onec			
Chloride	Result 122	Quan	<u> </u>	250		389.7	Quan		mg/Kg	lien		107	90 - 110	pike Du	plicat
Analyte Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254	122	Quan							mg/Kg	Clien		107	90 ₋ 110): Matrix S	pike Du Type: \$	-
Chloride Lab Sample ID: 880-7902-A-3-C MS	122					389.7	MSD		mg/Kg	Clien		107	90 ₋ 110): Matrix S	-	Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid	122 D	Samp	ple	250		389.7	MSD		mg/Kg	Clien		107	90 - 110 9: Matrix S Prep	-	Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254	122 D Sample	Samp	ple	250 Spike	F	389.7 MSD	MSD		mg/Kg	Clien	t Sa	107	90 - 110 9: Matrix S Prep %Rec.	Type: \$	Soluble RPI Limi
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte	122 D Sample Result	Samp	ple	250 Spike Added	F	389.7 MSD Result	MSD		mg/Kg (Clien	t Sa	107	90 - 110 9: Matrix S Prep %Rec. Limits	Type: \$ RPD 1	Solubl RPI Lim 2
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride	122 D Sample Result	Samp	ple	250 Spike Added	F	389.7 MSD Result	MSD		mg/Kg (Clien	t Sa	107	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID:	Type: \$ RPD 1	RPI Lim 2 d Blan
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A	122 D Sample Result	Samp	ple	250 Spike Added	F	389.7 MSD Result	MSD		mg/Kg (Clien	t Sa	107	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID:	Type: \$	RPI Lim 2 d Blan
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid	122 D Sample Result	Samp	ple ifier	250 Spike Added	F	389.7 MSD Result	MSD		mg/Kg (Clien	t Sa	107	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID:	Type: \$	RPI Lim 2 d Blan
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid	122 D Sample Result 122	Samı Quali	ple ifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali		mg/Kg (D	D	107	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID:	Type: §	RPI Limi 2 d Blanl Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450	122 D Sample Result 122	Samı Quali	ple ifier MB Qualifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali	fier	Unit mg/Kg		D	107 - 107 -	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 Gample ID: Prep	RPD 1 Method Type: \$ zed	Solubi RPI Limi 20 d Blani Solubi Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali	fier	Unit mg/Kg	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID: Prep Analy:	RPD 1 Method Type: \$ 22:12	RPI Lim 2 d Blan Solubi Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali	fier	Unit mg/Kg	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID: Prep Analy: 11/08/21 9: ID: Lab C	RPD 1 Method Type: \$ 22:12	Solubi RPI Lim 2 d Blan Solubi Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali	fier	Unit mg/Kg	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID: Prep Analy: 11/08/21 9: ID: Lab C	RPD 1 Method Type: \$ 22:12 ontrol \$	RPI Limi 2 d Blanl Soluble Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added	F	389.7 MSD Result 393.4	MSD Quali	fier	Unit mg/Kg	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared	90 - 110 9: Matrix S Prep %Rec. Limits 90 - 110 6: ample ID: Prep Analy: 11/08/21 9: ID: Lab C	RPD 1 Method Type: \$ 22:12 ontrol \$	RPI Lim 2 d Blan Solubl Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450 Analysis Batch: 11450 Analysis Batch: 11450 Analyte	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250 Spike Added	F	MSD Result 393.4	MSD Quali	fier Unit mg/Kg	Unit Unit Unit	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared Sample	90 - 110 91 - 110 91 - 110 92 - Matrix S 97 - Prep %Rec. 11/08/21 91 - 120 90 - 110 90 - 10 90 - 10 9	RPD 1 Method Type: \$ 22:12 ontrol \$	Solubi RPI Limi 20 d Blani Solubio Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450	122 D Sample Result 122	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250	F	389.7 MSD Result 393.4	MSD Quali	fier Unit mg/Kg	Unit mg/Kg	<u> </u>	D Pr	107 mple ID %Rec 109 Client S epared Sample	90 - 110 91 - 110 92 Matrix S Prep %Rec. Limits 90 - 110 5 ample ID: Prep Analy: 11/08/21 9 ID: Lab C Prep %Rec.	RPD 1 Method Type: \$ 22:12 ontrol \$	Solubi RPI Limi 20 d Blani Solubio Dil Fa
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450 Analysis Batch: 11450 Analysis Batch: 11450 Analyte	122 D Sample Result 122 R	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250 Spike Added	F	MSD Result 393.4	MSD Quali	fier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr	107 mple ID %Rec 109 Client S epared Sample %Rec 110	90 - 110 91 - 110 92 Matrix S Prep %Rec. Limits 90 - 110 6 ample ID: Prep Analy: 11/08/21 91 D: Lab C Prep %Rec. Limits 90 - 110	RPD Method Type: \$ 22:12 ontrol \$ Type: \$ Ontrol \$ D Samp	Soluble RPI Limi 2 d Blanl Soluble Dil Fa Sample Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCSD 880-11234/3-A Matrix: Solid	122 D Sample Result 122 R	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250 Spike Added	F	MSD Result 393.4	MSD Quali	fier Unit mg/Kg	Unit mg/Kg	D Cli	D Pr	107 mple ID %Rec 109 Client S epared Sample %Rec 110	90 - 110 91 - 110 92 Matrix S Prep %Rec. Limits 90 - 110 6 ample ID: Prep Analy: 11/08/21 91 D: Lab C Prep %Rec. Limits 90 - 110	RPD 1 Method Type: \$ 22:12 ontrol \$ Type: \$	Soluble RPI Limi 20 d Blanl Soluble Dil Fa Soluble Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCSD 880-11234/3-/	122 D Sample Result 122 R	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250 Spike Added 250	F	389.7 MSD Result 393.4 LCS Result 274.0	MSD Quali MDL LCS Quali	fier <u>Unit</u> mg/Kg fier	Unit mg/Kg	D Cli	D Pr	107 mple ID %Rec 109 Client S epared Sample %Rec 110	90 - 110 91 - 110 92 Matrix S Prep %Rec. Limits 90 - 110 5 ample ID: Prep Analy: 11/08/21 9 ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep	RPD Method Type: \$ 22:12 ontrol \$ Type: \$ Ontrol \$ D Samp	Soluble RPE Limi 20 d Blank Soluble Dil Fac Soluble Soluble
Chloride Lab Sample ID: 880-7902-A-3-C MS Matrix: Solid Analysis Batch: 11254 Analyte Chloride Lab Sample ID: MB 880-11234/1-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCS 880-11234/2-A Matrix: Solid Analysis Batch: 11450 Analyte Chloride Lab Sample ID: LCSD 880-11234/3-A Matrix: Solid	122 D Sample Result 122 R	Samı Quali MB esult	ple ifier MB Qualifier	250 Spike Added 250 Spike Added	F	MSD Result 393.4	MSD Qualii MDL LCS Quali	fier mg/Kg fier	Unit mg/Kg	D Cli	D Pr	107 mple ID %Rec 109 Client S epared Sample %Rec 110	90 - 110 91 - 110 92 Matrix S Prep %Rec. Limits 90 - 110 6 ample ID: Prep Analy: 11/08/21 91 D: Lab C Prep %Rec. Limits 90 - 110	RPD Method Type: \$ 22:12 ontrol \$ Type: \$ Ontrol \$ D Samp	Soluble RPD Limit 20 d Blank Soluble Dil Fac 1 Sample Soluble

QC Sample Results

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1503-1 SDG: 31403360.009

Method: 300.0 - Anions, Ion Chromatography

ab Sample ID: 880 7800 A	C E MC							Client	Sample ID	Motrix	Snike	
Lab Sample ID: 880-7809-A- Matrix: Solid								Client	Sample ID:		-	
									Prep	Type: So	Diubie	
Analysis Batch: 11450	Sample	Sample	Spike	MS	MS				%Rec.			
nalyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
nloride	36.9		250	308.7		mg/Kg		109	90 - 110			
ab Sample ID: 880-7809-A-	-6-F MSD					0						÷,
a factoria de a lítica							ient Sa	ampie iD	: Matrix Sp	ike Dup	licate	
atrix: Solid						CI	ient Sa	ampie ID		ike Dup Type: Sc		
						U	ient Sa	ampie iu				
	Sample	Sample	Spike	MSD	MSD	CI	ient Sa	ampie iu				
nalysis Batch: 11450	•	Sample Qualifier	Spike Added		MSD Qualifier	Unit	<u> </u>	%Rec	Prep		oluble	
nalysis Batch: 11450	•	•	-					-	Prep	Type: So	RPD	
nalysis Batch: 11450 ^{alyte}	Result	•	Added	Result		Unit		%Rec	Prep 7 %Rec. Limits	RPD	RPD Limit	
nalysis Batch: 11450	Result	•	Added	Result		Unit		%Rec	Prep 7 %Rec. Limits	RPD	RPD Limit	
nalysis Batch: 11450	Result	•	Added	Result		Unit		%Rec	Prep 7 %Rec. Limits	RPD	RPD Limit	
nalysis Batch: 11450	Result	•	Added	Result		Unit		%Rec	Prep 7 %Rec. Limits	RPD	RPD Limit	
Matrix: Solid Analysis Batch: 11450 nalyte hloride	Result	•	Added	Result		Unit		%Rec	Prep 7 %Rec. Limits	RPD	RPD Limit	

QC Association Summary

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1503-1 SDG: 31403360.009

GC VOA

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-1	BH01B	Total/NA	Solid	Total BTEX	
890-1503-2	BH02B	Total/NA	Solid	Total BTEX	
890-1503-3	BH03B	Total/NA	Solid	Total BTEX	
890-1503-4	BH04B	Total/NA	Solid	Total BTEX	
890-1503-5	BH05B	Total/NA	Solid	Total BTEX	
890-1503-6	BH06B	Total/NA	Solid	Total BTEX	
890-1503-7	BH07B	Total/NA	Solid	Total BTEX	

Analysis Batch: 11347

890-1503-7	BH07B	Total/NA	Solid	Total BTEX		
Analysis Batch: 11347						8
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-1503-1	BH01B	Total/NA	Solid	8021B	11348	
890-1503-2	BH02B	Total/NA	Solid	8021B	11348	
890-1503-3	BH03B	Total/NA	Solid	8021B	11348	
890-1503-4	BH04B	Total/NA	Solid	8021B	11348	
890-1503-5	BH05B	Total/NA	Solid	8021B	11348	
890-1503-6	BH06B	Total/NA	Solid	8021B	11348	
890-1503-7	BH07B	Total/NA	Solid	8021B	11348	
MB 880-11348/5-A	Method Blank	Total/NA	Solid	8021B	11348	10
LCS 880-11348/1-A	Lab Control Sample	Total/NA	Solid	8021B	11348	13
LCSD 880-11348/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11348	
890-1503-1 MS	BH01B	Total/NA	Solid	8021B	11348	
890-1503-1 MSD	BH01B	Total/NA	Solid	8021B	11348	

Prep Batch: 11348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-1	BH01B	Total/NA	Solid	5035	
890-1503-2	BH02B	Total/NA	Solid	5035	
890-1503-3	BH03B	Total/NA	Solid	5035	
890-1503-4	BH04B	Total/NA	Solid	5035	
890-1503-5	BH05B	Total/NA	Solid	5035	
890-1503-6	BH06B	Total/NA	Solid	5035	
890-1503-7	BH07B	Total/NA	Solid	5035	
MB 880-11348/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11348/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11348/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1503-1 MS	BH01B	Total/NA	Solid	5035	
890-1503-1 MSD	BH01B	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 11158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1503-1 BH01B		Total/NA	Solid	8015NM Prep	
890-1503-2	BH02B	Total/NA	Solid	8015NM Prep	
890-1503-3	BH03B	Total/NA	Solid	8015NM Prep	
890-1503-4	BH04B	Total/NA	Solid	8015NM Prep	
890-1503-5	BH05B	Total/NA	Solid	8015NM Prep	
890-1503-6	BH06B	Total/NA	Solid	8015NM Prep	
890-1503-7	BH07B	Total/NA	Solid	8015NM Prep	
MB 880-11158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Project/Site: Tucker Draw

GC Semi VOA (Continued)

Prep Batch: 11158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11193

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-1503-1	BH01B	Total/NA	Solid	8015B NM	11158
90-1503-2	BH02B	Total/NA	Solid	8015B NM	11158
90-1503-3	BH03B	Total/NA	Solid	8015B NM	11158
90-1503-4	BH04B	Total/NA	Solid	8015B NM	11158
90-1503-5	BH05B	Total/NA	Solid	8015B NM	11158
90-1503-6	BH06B	Total/NA	Solid	8015B NM	11158
90-1503-7	BH07B	Total/NA	Solid	8015B NM	11158
B 880-11158/1-A	Method Blank	Total/NA	Solid	8015B NM	11158
CS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11158
CSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11158
90-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	11158
90-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11158

Analysis Batch: 11344

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1503-1	BH01B	Total/NA	Solid	8015 NM	
890-1503-2	BH02B	Total/NA	Solid	8015 NM	
890-1503-3	BH03B	Total/NA	Solid	8015 NM	
890-1503-4	BH04B	Total/NA	Solid	8015 NM	
890-1503-5	BH05B	Total/NA	Solid	8015 NM	
890-1503-6	BH06B	Total/NA	Solid	8015 NM	
890-1503-7	BH07B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-1	BH01B	Soluble	Solid	DI Leach	
MB 880-11226/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11226/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11226/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7902-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7902-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 11234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-2	BH02B	Soluble	Solid	DI Leach	
890-1503-3	BH03B	Soluble	Solid	DI Leach	
890-1503-4	BH04B	Soluble	Solid	DI Leach	
890-1503-5	BH05B	Soluble	Solid	DI Leach	
890-1503-6	BH06B	Soluble	Solid	DI Leach	
890-1503-7	BH07B	Soluble	Solid	DI Leach	
MB 880-11234/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11234/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

5

Job ID: 890-1503-1

SDG: 31403360.009

QC Association Summary

Client: WSP USA Inc. Project/Site: Tucker Draw

HPLC/IC (Continued)

Leach Batch: 11234 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-7809-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7809-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-1	BH01B	Soluble	Solid	300.0	11226
MB 880-11226/1-A	Method Blank	Soluble	Solid	300.0	11226
LCS 880-11226/2-A	Lab Control Sample	Soluble	Solid	300.0	11226
LCSD 880-11226/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11226
880-7902-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	11226
880-7902-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11226

Analysis Batch: 11450

	ontinued)				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-7809-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7809-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 11254					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1503-1	BH01B	Soluble	Solid	300.0	11226
MB 880-11226/1-A	Method Blank	Soluble	Solid	300.0	11226
LCS 880-11226/2-A	Lab Control Sample	Soluble	Solid	300.0	11226
LCSD 880-11226/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11226
880-7902-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	11226
880-7902-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11226
nalysis Batch: 11450					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1503-2	BH02B	Soluble	Solid	300.0	11234
890-1503-3	BH03B	Soluble	Solid	300.0	11234
000 1000-0			Solid	300.0	11234
	BH04B	Soluble			
890-1503-4	BH04B BH05B	Soluble	Solid	300.0	11234
890-1503-4 890-1503-5			Solid Solid	300.0 300.0	11234 11234
890-1503-4 890-1503-5 890-1503-6	BH05B	Soluble			
890-1503-4 890-1503-5 890-1503-6 890-1503-7	BH05B BH06B	Soluble Soluble	Solid	300.0	11234
890-1503-4 890-1503-5 890-1503-6 890-1503-7 MB 880-11234/1-A	ВН05В ВН06В ВН07В	Soluble Soluble Soluble	Solid Solid	300.0 300.0	11234 11234
890-1503-4 890-1503-5 890-1503-6 890-1503-7 MB 880-11234/1-A LCS 880-11234/2-A	BH05B BH06B BH07B Method Blank	Soluble Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	11234 11234 11234
890-1503-5 890-1503-5 890-1503-5 890-1503-6 890-1503-7 MB 880-11234/1-A LCS 880-11234/2-A LCSD 880-11234/3-A 880-7809-A-6-E MS	BH05B BH06B BH07B Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	11234 11234 11234 11234

11/9/2021

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH01B Date Collected: 10/28/21 10:45

Date Received: 10/29/21 13:00

Job ID: 890-1503-1
SDG: 31403360.009

Lab Sample ID: 890-1503-1 Matrix: Solid

ix: 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			4.96 g	5 mL	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 12:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11226	11/03/21 10:51	СН	XEN MID
Soluble	Analysis	300.0		1			11254	11/03/21 13:54	СН	XEN MID

Lab Sample ID: 890-1503-2

Lab Sample ID: 890-1503-3

Lab Sample ID: 890-1503-4

Matrix: Solid

Matrix: Solid

9

Date Collected: 10/28/21 11:50 Date Received: 10/29/21 13:00

Client Sample ID: BH02B

Date Received: 10/29/21 13:00

	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	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 04:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 00:40	СН	XEN MID

Client Sample ID: BH03B

Date Collected: 10/28/21 12:35

Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 13:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 04:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 00:47	СН	XEN MID

Client Sample ID: BH04B Date Collected: 10/28/21 13:35 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 13:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

Eurofins Xenco, Carlsbad

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Released to Imaging: 12/22/2021 9:17:30 AM

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH04B

Date Collected: 10/28/21 13:35 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 04:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 01:09	СН	XEN MID

Client Sample ID: BH05B

Date Collected: 10/28/21 14:32 Date Received: 10/29/21 13:00

	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	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 14:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 05:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 01:16	СН	XEN MID

Client Sample ID: BH06B

Date Collected: 10/28/21 15:25 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 14:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 05:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 01:24	СН	XEN MID

Client Sample ID: BH07B

Date Collected: 10/28/21 16:10 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11348	11/03/21 09:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11347	11/03/21 17:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/03/21 05:57	AJ	XEN MID

Eurofins Xenco, Carlsbad

Job ID: 890-1503-1 SDG: 31403360.009

Lab Sample ID: 890-1503-4 Matrix: Solid

Lab Sample ID: 890-1503-5

Lab Sample ID: 890-1503-6

Lab Sample ID: 890-1503-7

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1503-1 SDG: 31403360.009

Client Sample ID: BH07B Date Collected: 10/28/21 16:10

Date Received: 10/29/21 13:00							
Batch	Batch	Dil					

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	5
Soluble	Leach	DI Leach			5.01 g	50 mL	11234	11/02/21 12:06	СН	XEN MID	
Soluble	Analysis	300.0		1			11450	11/09/21 01:31	СН	XEN MID	

Laboratory References:

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

Lab Sample ID: 890-1503-7 Matrix: Solid

Page 57 of 108

10

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Tucker Draw Job ID: 890-1503-1 SDG: 31403360.009

Laboratory: Eurofins Xenco, Midland

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

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

Method Summary

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1503-1 SDG: 31403360.009

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

5
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13

Client: WSP USA Inc. Project/Site: Tucker Draw

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1503-1	BH01B	Solid	10/28/21 10:45	10/29/21 13:00	7	
890-1503-2	BH02B	Solid	10/28/21 11:50	10/29/21 13:00	7	
890-1503-3	BH03B	Solid	10/28/21 12:35	10/29/21 13:00	7	. 5
890-1503-4	BH04B	Solid	10/28/21 13:35	10/29/21 13:00	7	J
890-1503-5	BH05B	Solid	10/28/21 14:32	10/29/21 13:00	7	
890-1503-6	BH06B	Solid	10/28/21 15:25	10/29/21 13:00	7	
890-1503-7	BH07B	Solid	10/28/21 16:10	10/29/21 13:00	7	
						c
						8
						0
						9
						1:
						1:

5	A A A A A A A A A A A A A A A A A A A	W//W/ / ///// / /////	Relinguished by: (Signature) A Received by: (Signature) Date/Time Relinquished by: (Signature) F	of Xenco. A minimum charge of \$75.00 will be project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be emoreed unless previously regorated.	gnature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its attiliates and succontractors. 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 in the same second	Transfer and the second s	and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb M	Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni		 S 10/28/2021	S 10/28/2021	BH05B S 10/28/2021 14:32 7' X X X X A	BH04B S 10/28/2021 13:35 7' X X X X I	BH03B S 10/28/2021 12:35 7' X X X X I	BH02B S 10/28/2021 11:50 7' X X X X	BH01B S 10/28/2021 10:45 7' X X X X A	Sample Identification Matrix Date Time Sampled Sampled Depth mb Number Chlorid	No WA/ Total Containers: er of PA 8	015) 0=8	iner	SAMPLE RECEIPT Temp Blank: Kes No Wet Ice: Yes No	Sampler's Name: Elliot Lee Due Date:	P.O. Number: Rush:	an 31403360.009	Project Name: Tucker Draw Turn Around ANALYSIS REQUEST	Phone: 281-702-2329 Email: Elliot.Lee@wsp.com, Anna.Byers@wsp.com Deliverables: EDD	City, State ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 88220 Reporting:Level II	Address: 3300 North A Street Address: 5315 Buena Vista Dr. State of Project:	Company Name: WSP USA Company Name: WPX Energy Program: UST/PST	Project Manager: Joseph Hernandez Bill to: (if different) Jim Raley	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)
Revised Date 051418 Rev 2018			Received by: (Signature) Date/Time	otiateo.	nd the control	d conditions	1631/245.1/7470/7471:Hg	K Se Ag SiO2 Na Sr TI Sn U V Zn		Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Sample Comments	lab, it received by 4:supm	TAT starts the day received by the				-	Incident # NAPP2124237477	Work Order Notes	EDD ADaP1 Other:		, , ,	/PST CRP Crownfields CRC Cperfund	Work Order Comments	www.xenco.com Page of

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60 of 108 Pa

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Eurotins Xenco, Carlsbad	ns X	enco	, Car	Isbad			
1089 N Canal St	anal St						
Carlsbad NM 88220	MN	38220					
Phone 5	75-988	-3199	Fax 57	Phone 575-988-3199 Fax 575-988-3199	w		

Chain of Custody Record

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1089 N Canal St Carlshad NM 88220	~	Chain of Custody Record	of Cust	ody R	eco	ā													.	s eurofins	rot	ins	D	nviro	nmer	Environment Testing	sting
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Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	~	Jessica						្ត	Carrier Tracking No(s)	racki	No BL	(s)			<u>, 0</u>	COC No ⁻ 890-488 1	ي 2						
Cherri Contacc Shipping/Receiving	Phone [,]		ł	E-Mail jessic	E-Mail jessica kramer@eurofinset com	ner@	ieuro	finset	com			zφ	State of Origin New Mexico	Origir	- c				.	Page Page 1 of 1	1 2 1						
Company Eurofins Xenco					Accreditations Required (See note): NELAP - Texas	P - To	Requ	red (S	ee not	e)									<u>ي</u> ہ	Job #:							
Address 1771 W Florida Ave	Due Date Requested	٩								1									╣	Preservation Codes	vatio	<u></u>	les S				
City	11/4/2021					1			Anal	alysis		Requested	este	٩ م					Ļ	E E	ļ	1	s i	Hex	ЧГI Ф		
widland	TAT Requested (days):	ys):																	נסר		NaOH Zn Acetate	,)z;	None	3 4		
State, Zip TX 79701	<u>í</u>				<u> Stangeleta</u>																Nitric Acid	6		Na2O4S	ũ X C		
Phone 432-704-5440(Tel)	PO#				Allender 14	9	PH												ை		MeOH Amchlor		σπ	Na2: H2S	Na2S2O3 H2SO4		
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	SSCAA#:				Concerns delle	30/01_	015NI	Calc E		×								- and a	1.13/13-014	Other-							
		Sample	Sample Type	Matrix (W=water S=solid	d Filtered form MS/N	ORGFM_2	MOD_NM/8	B/5035FP_	MOD_Calc	_BTEX_GO							· · · · · · · · · · · · · · · · · · ·	W. Balance	Number								
Sample Identification - Client ID (Lab ID)	Sample Date		G=grab) B	D=waste/oli, BT=Tissue, A=Alr)	10/2/2000/000	300_	8016	8021		Tota									Tota		Special Instructions/Note:	ial Ir	Istru	Ictic	/ns/N	ofe	
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BH01B (890-1503-1)	10/28/21	10 45 Mountain		Solid		×	х	×	×	×																	
BH02B (890-1503-2)	10/28/21	11 50 Mountain		Solid		×	×	×	×	×	_								<u>«</u> [
BH03B (890-1503-3)	10/28/21	12 35 Mountain		Solid		×	×	×	×	×					+												
BH04B (890-1503-4)	10/28/21	13 35 Mountain		Solid		×	×	×	×	<u>×</u>									ا بھیے است							ļ	
BH05B (890-1503-5)	10/28/21	14 32 Mountain		Solid		×	×	×	×	×					-+				<u>*</u>								
BH06B (890-1503-6)	10/28/21	15 25 Mountain		Solid		×	×	×	×	<u>×</u>	-+					-+			, 1								
ВН07В (890-1503-7)	10/28/21	16 10 Mountain		Solid		×	×	×	×	<u>×</u>								/									
									ļ			<u> </u>					i										
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories, maintain accreditation in the State of Origin listed above for analysistlests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instru attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership opening analyzed the sa signed Chain of Cus	of method analy mples must be a tody attesting to	yte & accredita shipped back t o said complica	tion complianc o the Eurofins ance to Eurofin	e upon o Xenco L S Xenco	LC lat	porator	act lab y or ot	oratori her ins	es. Tr structic	nis san ons wil	nple st I be pr	nipmei ovideo	ntis fo I Anj	rward / char	ied ur iges t	nder o o acc	hain-o	of-cu: tion s	itody tatus s	If the should	labors be br	itory (does r to Eu	lot cu rofins	rrently Xenc	This sample shipment is forwarded under chain-of-custody If the laboratory does not currently ctions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.
Possible Hazard Identification					Sa	Sample Disposal (A fee	Bis	osal	Â	8	a ve	e ass	ëss	ă	sam	ples	are	reta	ž	may be assessed if samples are retained longer than 1 month)	le le	han	3				
Unconfirmed						עק	Return To Client	700	Jient		П	Dis	Disposal By Lab	By	Lab		П	⊔ ≥	rchiv	Archive For	(Months	ths		
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			g	Special Instructions/QC Requirements	Instru	lction	IS/QC	Reo	luirer	nents		ŀ													
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Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

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Date/Time)ate/Time

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Cooler Temperature(s) °C and Other Remarks.

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Ver 06/08/2021

Company Company

14

Job Number: 890-1503-1 SDG Number: 31403360.009

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1503 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	

N/A

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

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1503 List Number: 2 Creator: Kramer, Jessica Job Number: 890-1503-1 SDG Number: 31403360.009

List Source: Eurofins Xenco, Midland List Creation: 11/01/21 08:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Received by OCD: 11/24/2021 12:18:52 PM

eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1504-1

Laboratory Sample Delivery Group: 31403360.009 Client Project/Site: Tucker Draw

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 11/9/2021 7:56:59 PM Jessica Kramer, Project Manager

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

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

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

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Page 65 of 108

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	26
Lab Chronicle	31
Certification Summary	36
Method Summary	37
Sample Summary	38
Chain of Custody	39
Receipt Checklists	43

Client: WSP USA Inc. Project/Site: Tucker Draw Page 66 of 108

Job ID: 890-1504-1
SDG: 31403360.009

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	6
GC Semi VO		
Qualifier	Qualifier Description	7
*1	LCS/LCSD RPD exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	8
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		9
Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	10
U	Indicates the analyte was analyzed for but not detected.	
Glossary		11
Abbreviation	These commonly used abbreviations may or may not be present in this report.	12
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	4.2
CFL	Contains Free Liquid	13

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

Job ID: 890-1504-1 SDG: 31403360.009

Job ID: 890-1504-1

Project/Site: Tucker Draw

Client: WSP USA Inc.

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1504-1

Receipt

The samples were received on 10/29/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11122 and analytical batch 880-10983 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH05A (890-1504-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11249 and analytical batch 880-11321 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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 laboratory control sample (LCS) associated with preparation batch 880-11235 and analytical batch 880-11380 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.

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

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Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Job ID: 890-1504-1 SDG: 31403360.009

Client Sample ID: BH01

Date Collected: 10/28/21 09:55 Date Received: 10/29/21 13:00

Sample Depth: 1

Analyte

Client: WSP USA Inc.

Project/Site: Tucker Draw

Analyzed

Matrix: Solid

504-1 Solid	
	5
Dil Fac	
1	
1	
1	
1	
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Dil Fac	9
1 1	
Dil Fac	
1	
Dil Fac	13
1	

RL MDL Unit D Prepared

Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		11/01/21 12:44	11/02/21 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:44	11/02/21 01:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:44	11/02/21 01:51	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			11/03/21 12:38	1
- Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	298		49.9		mg/Kg			11/03/21 08:46	1
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	• • ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 12:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	298		49.9		mg/Kg		11/02/21 15:51	11/03/21 12:43	1
C10-C28)	10.0		10.0						
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/02/21 15:51	11/03/21 12:43	1
o-Terphenyl	103		70 - 130				11/02/21 15:51	11/03/21 12:43	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3860		24.8		mg/Kg			11/06/21 06:24	5
Client Sample ID: BH01A							Lab Sar	nple ID: 890-	1504-2
Date Collected: 10/28/21 10:30								Matri	ix: Solid
Date Received: 10/29/21 13:00									
Sample Depth: 5									
Method: 8021B - Volatile Organi	c Compounds	(GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:44	11/02/21 02:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:44	11/02/21 02:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:44	11/02/21 02:12	1

Ethylbenzene <0.00201 U 0.00201 mg/Kg 11/01/21 12:44 11/02/21 02:12 <0.00402 U 0.00402 11/02/21 02:12 m-Xylene & p-Xylene mg/Kg 11/01/21 12:44 1 <0.00201 U 0.00201 11/01/21 12:44 11/02/21 02:12 o-Xylene mg/Kg 1 Xylenes, Total <0.00402 U 0.00402 11/01/21 12:44 11/02/21 02:12 mg/Kg 1 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 132 S1+ 70 - 130 11/01/21 12:44 11/02/21 02:12 1

Eurofins Xenco, Carlsbad

Released to Imaging: 12/22/2021 9:17:30 AM

Client Sample Results

Job ID: 890-1504-1 SDG: 31403360.009

Lab Sample ID: 890-1504-2

Matrix: Solid

5

Date Collected: 10/28/21 10:30 Date Received: 10/29/21 13:00

Client Sample ID: BH01A

Sam	ole	Depth	:	5

Client: WSP USA Inc.

Project/Site: Tucker Draw

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:44	11/02/21 02:12	
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/03/21 12:38	
Method: 8015 NM - Diesel Range	organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			11/03/21 08:46	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 13:03	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 13:03	
C10-C28)	.50.0		50.0					11/00/01 10 00	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 13:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/02/21 15:51	11/03/21 13:03	
p-Terphenyl	101		70 - 130				11/02/21 15:51	11/03/21 13:03	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	369		25.0		mg/Kg			11/06/21 06:47	ł
lient Sample ID: BH02							Lab San	nple ID: 890-	1504-3
ate Collected: 10/28/21 11:10								Matri	x: Solic

Method: 8021B - Volatile Organ	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:44	11/02/21 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/01/21 12:44	11/02/21 02:32	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:44	11/02/21 02:32	1
_ Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/21 12:38	1
– Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		·	11/03/21 08:46	1

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample Results

RL

50.0

50.0

50.0

RL

5.00

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

11/02/21 15:51

11/02/21 15:51

11/02/21 15:51

Prepared

11/02/21 15:51

11/02/21 15:51

Prepared

Client: WSP	USA Inc.
Project/Site:	Tucker Draw

Sample Depth: 1

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: BH02A

Date Collected: 10/28/21 11:40

Date Received: 10/29/21 13:00

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Client Sample ID: BH02 Date Collected: 10/28/21 11:10

Date Received: 10/29/21 13:00

Lab Sample ID: 890-1504-3

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

Job ID: 890-1504-1 SDG: 31403360.009

5

11/06/21 06:55 Lab Sample ID: 890-1504-4

Analyzed

11/03/21 13:23

11/03/21 13:23

11/03/21 13:23

Analyzed

11/03/21 13:23

11/03/21 13:23

Analyzed

Matrix: Solid

Sam	ple	Depth:	5
	P. 9	- optim	-

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:44	11/02/21 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/01/21 12:44	11/02/21 02:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:44	11/02/21 02:53	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			11/03/21 12:38	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/03/21 08:46	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	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 13:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 13:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	% Recovery 98	Qualifier	Limits 70 - 130				Prepared 11/02/21 15:51	Analyzed 11/03/21 13:43	Dil Fac

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Result Qualifier

<50.0 U

<50.0 U

<50.0 U

%Recovery Qualifier

96

103

351

Result Qualifier

Page 71 of 108

		Clien	t Sample R	esults	5				
Client: WSP USA Inc.			-					Job ID: 890	-1504-1
Project/Site: Tucker Draw								SDG: 31403	360.009
Client Sample ID: BH02A							Lab San	nple ID: 890-	1504-4
Date Collected: 10/28/21 11:40									x: Solic
Date Received: 10/29/21 13:00								matri	x. 00110
Sample Depth: 5									
-									
Method: 300.0 - Anions, Ion Ch			51	MD	1114	-	Descented	A	
Analyte		Qualifier		MDL	Unit	<u>D</u>	Prepared	Analyzed 11/06/21 07:03	Dil Fa
Chloride	43.3		5.00		mg/Kg			11/06/21 07.03	
Client Sample ID: BH03							Lab San	nple ID: 890-	1504-{
Date Collected: 10/28/21 11:59								Matri	x: Solic
Date Received: 10/29/21 13:00									
Sample Depth: 1									
_ Method: 8021B - Volatile Organ	ic Compounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 03:13	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 03:13	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 03:13	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:44	11/02/21 03:13	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:44	11/02/21 03:13	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:44	11/02/21 03:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		Quanter	70 - 130				11/01/21 12:44	11/02/21 03:13	Dirta
1,4-Difluorobenzene (Surr)	103		70 - 130				11/01/21 12:44	11/02/21 03:13	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/21 12:38	
- Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			11/03/21 08:46	
Ξ									
Method: 8015B NM - Diesel Rar						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:03	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:03	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				11/02/21 15:51	11/03/21 14:03	
o-Terphenyl	104		70 - 130				11/02/21 15:51	11/03/21 14:03	
- - 		Oslubla							
Method: 300.0 - Anions, Ion Ch	romatography -	elauloe							
Analyte	Baault	Qualifier	RL	MIDI	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

Released to Imaging: 12/22/2021 9:17:30 AM

Job ID: 890-1504-1 SDG: 31403360.009

Client Sample ID: BH03A

Date Collected: 10/28/21 12:27 Date Received: 10/29/21 13:00

Sample Depth: 5

Client: WSP USA Inc.

Project/Site: Tucker Draw

Lab Sample ID: 890-1504-6 Matrix: Solid

5

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с 1	
c 1	
1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 03:34	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 03:34	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 03:34	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:44	11/02/21 03:34	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 03:34	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:44	11/02/21 03:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 12:44	11/02/21 03:34	
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 12:44	11/02/21 03:34	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/03/21 12:38	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			11/03/21 08:46	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 14:23	
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 14:23	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 15:51	11/03/21 14:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	95		70 - 130				11/02/21 15:51	11/03/21 14:23	
o-Terphenyl	102		70 - 130				11/02/21 15:51	11/03/21 14:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		5.00		mg/Kg			11/06/21 07:18	
lient Sample ID: BH04							Lab Sar	nple ID: 890-	1504-7
ate Collected: 10/28/21 13:10								Matri	x: Solic
ate Received: 10/29/21 13:00									
ample Depth: 2									
Method: 8021B - Volatile Organic	Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:44	11/02/21 03:54	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:44	11/02/21 03:54	

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 117 70 - 130 11/01/21 12:44 11/02/21 03:54

<0.00201 U

<0.00402 U

<0.00201 U

<0.00402 U

11/02/21 03:54

11/02/21 03:54

11/02/21 03:54

11/02/21 03:54

11/01/21 12:44

11/01/21 12:44

11/01/21 12:44

11/01/21 12:44

Ethylbenzene

Xylenes, Total

o-Xylene

m-Xylene & p-Xylene

0.00201

0.00402

0.00201

0.00402

mg/Kg

mg/Kg

mg/Kg

mg/Kg

1

1

1

1

1

Dil Fac
5

Client Sample Results

Job ID: 890-1504-1 SDG: 31403360.009

Lab Sample ID: 890-1504-7

Client Sample ID: BH04

Project/Site: Tucker Draw

Client: WSP USA Inc.

Date Collected: 10/28/21 13:10 Date Received: 10/29/21 13:00								Matri	x: Solid
Sample Depth: 2									
· ·									
Method: 8021B - Volatile Organic	Compounds (GC) (Conti	nued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	94		70 - 130				11/01/21 12:44	11/02/21 03:54	
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/03/21 12:38	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			11/03/21 08:46	1
-									
Method: 8015B NM - Diesel Range									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:43	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 15:51	11/03/21 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/02/21 15:51	11/03/21 14:43	1
o-Terphenyl	99		70 - 130				11/02/21 15:51	11/03/21 14:43	1
Method: 300.0 - Anions, Ion Chroi	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.95		mg/Kg			11/06/21 07:26	1
Client Sample ID: BH04A							Lab Sar	nple ID: 890-	1504-8
Date Collected: 10/28/21 13:30								Matri	x: Solid

Date Received: 10/29/21 13:00 Sample Depth: 5

Analyta	Compounds (ы	MDI	l lució		Dueneued	A mail mad	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:44	11/02/21 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:44	11/02/21 04:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 12:44	11/02/21 04:14	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/21 12:38	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Page 74 of 108

Job ID: 890-1504-1 SDG: 31403360.009

Matrix: Solid

Lab Sample ID: 890-1504-8

11/09/21 01:38

Lab Sample ID: 890-1504-9

Client Sample ID: BH04A

Date Collected: 10/28/21 13:30 Date Received: 10/29/21 13:00

Sample Depth: 5

Client: WSP USA Inc.

Project/Site: Tucker Draw

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:03	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:03	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/02/21 15:51	11/03/21 15:03	
o-Terphenyl	99		70 - 130				11/02/21 15:51	11/03/21 15:03	

4.98

mg/Kg

Chloride 46.9

Client Sample ID: BH05 Date Collected: 10/28/21 14:10

Date Received: 10/29/21 13:00

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:44	11/02/21 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				11/01/21 12:44	11/02/21 04:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130				11/01/21 12:44	11/02/21 04:35	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			11/03/21 12:38	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			11/03/21 08:46	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	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/02/21 15:51	11/03/21 15:23	1

Eurofins Xenco, Carlsbad

		Clien	t Sample R	lesults	;									
Client: WSP USA Inc. Project/Site: Tucker Draw								Job ID: 890 SDG: 31403						
Client Sample ID: BH05 Date Collected: 10/28/21 14:10 Date Received: 10/29/21 13:00 Sample Depth: 3							Lab Sample ID: 890-15 Matrix:							
– Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
Chloride	40.2		4.96		mg/Kg			11/09/21 01:46	1					
Client Sample ID: BH05A Date Collected: 10/28/21 14:25 Date Received: 10/29/21 13:00 Sample Depth: 5							Lab Sam	ple ID: 890-1 Matri	504-10 x: Solid					
– Method: 8021B - Volatile Organi						_								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
Benzene	< 0.00201		0.00201		mg/Kg		11/01/21 12:44	11/02/21 04:55	1					
Toluene	< 0.00201		0.00201		mg/Kg		11/01/21 12:44	11/02/21 04:55						
Ethylbenzene	< 0.00201		0.00201		mg/Kg		11/01/21 12:44	11/02/21 04:55						
m-Xylene & p-Xylene	< 0.00402		0.00402		mg/Kg		11/01/21 12:44	11/02/21 04:55						
o-Xylene	< 0.00201		0.00201		mg/Kg		11/01/21 12:44	11/02/21 04:55						
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:44	11/02/21 04:55	1					
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac					
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/01/21 12:44	11/02/21 04:55	1					
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:44	11/02/21 04:55	1					
_ Method: Total BTEX - Total BTE	X Calculation													
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/03/21 12:38	1					
_ Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
Total TPH	<49.9	U	49.9		mg/Kg			11/03/21 08:46	1					
– Method: 8015B NM - Diesel Ran	ao Organice (D													
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac					
Gasoline Range Organics			49.9		mg/Kg		11/02/21 15:51	11/03/21 16:02	1					
(GRO)-C6-C10														
Diesel Range Organics (Over C10-C28)	<49.9		49.9		mg/Kg		11/02/21 15:51	11/03/21 16:02	1					
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 15:51	11/03/21 16:02	1					
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac					
1-Chlorooctane	88		70 - 130				11/02/21 15:51	11/03/21 16:02	1					
o-Terphenyl	97		70 - 130				11/02/21 15:51	11/03/21 16:02	1					
_ Method: 300.0 - Anions, Ion Chr	omatography -	Soluble												
Analyte		Qualifier	RL	MDL	Unit	-	Drenered	Amelianad	Dil Fac					
					Unit	D	Prepared	Analyzed	DII Fac					

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

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

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00401 U

<0.00200 U

<0.00401 U

118

101

<0.00401 U

Result Qualifier

Result Qualifier

Result Qualifier

<49.9 U *1

<49.9 U

<49.9 U

%Recovery Qualifier

101

117

65.1 *_

Result Qualifier

<49.9 U

%Recovery

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

Limits 70 - 130

70 - 130

RL

RL

49.9

RL

49.9

49.9

49.9

RL

4.99

Limits

70 - 130

70 - 130

0.00401

MDL

MDL Unit

MDL Unit

MDL Unit

MDL Unit

mg/Kg

Unit

mg/Kg

mg/Kg mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Client Sample ID: BH06

Date Collected: 10/28/21 14:50 Date Received: 10/29/21 13:00

Sample Depth: 1

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client: WSP USA Inc. Project/Site: Tucker Draw

		Job ID: 890 SDG: 31403		2
	Lab Sam	ple ID: 890-1 Matri	504-11 x: Solid	3
		Wath	x. 0010	4
				5
D	Prepared	Analyzed	Dil Fac	
_	11/01/21 12:44	11/02/21 06:43	1	6
	11/01/21 12:44	11/02/21 06:43	1	
	11/01/21 12:44	11/02/21 06:43	1	7
	11/01/21 12:44	11/02/21 06:43	1	
	11/01/21 12:44	11/02/21 06:43	1	8
	11/01/21 12:44	11/02/21 06:43	1	
	Prepared	Analyzed	Dil Fac	9
	11/01/21 12:44	11/02/21 06:43	1	
	11/01/21 12:44	11/02/21 06:43	1	10
				44
D	Prepared	Analyzed	Dil Fac	11
—		11/03/21 12:38	1	12
D	Prepared	Analyzed	Dil Fac	13
		11/03/21 08:46	1	11
				14
D	Prepared	Analyzed	Dil Fac	
	11/02/21 14:31	11/04/21 03:57	1	
	11/02/21 14:31	11/04/21 03:57	1	
	11/02/21 14:31	11/04/21 03:57	1	
	Prepared	Analyzed	Dil Fac	
	11/02/21 14:31	11/04/21 03:57	1	
	11/02/21 14:31	11/04/21 03:57	1	
D	Prepared	Analyzed	Dil Fac	
_		11/06/21 23:13	1	
	Lab Sam	ple ID: 890-1	504-12	

Client Sample ID: BH06A Date Collected: 10/28/21 15:20 Date Received: 10/29/21 13:00

Sample Depth: 5

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:44	11/02/21 07:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/01/21 12:44	11/02/21 07:04	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH06A

Date Collected: 10/28/21 15:20

-	
	SDG: 31403360.009
	Job ID: 890-1504-1

Lab Sample ID: 890-1504-12

Matrix: Solid

5

IC	9
1	
1 1	
1	

Date Received: 10/29/21 13:00

Sample	Depth:	5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:44	11/02/21 07:04	
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			11/03/21 12:38	
Method: 8015 NM - Diesel Range	Organics (DR	0) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			11/03/21 08:46	
Method: 8015B NM - Diesel Rang	ge Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:18	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:18	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				11/02/21 14:31	11/04/21 04:18	
o-Terphenyl	115		70 - 130				11/02/21 14:31	11/04/21 04:18	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	14.0	*_	4.98		mg/Kg			11/06/21 23:21	
lient Sample ID: BH07							Lab Sam	ple ID: 890-1	504-13
ate Collected: 10/28/21 15:45								Matri	x: Solid
ate Received: 10/29/21 13:00									
ample Depth: 3									

ic Compounds ((GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
<0.00400	U	0.00400		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
<0.00400	U	0.00400		mg/Kg		11/01/21 12:44	11/02/21 07:24	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
		70 - 130				11/01/21 12:44	11/02/21 07:24	1
99		70 - 130				11/01/21 12:44	11/02/21 07:24	1
X Calculation								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00400	U	0.00400		mg/Kg			11/03/21 12:38	1
e Organics (DR	O) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg		,	11/03/21 08:46	1
	Result <0.00200	99	Result Qualifier RL <0.00200	Result Qualifier RL MDL <0.00200	Result Qualifier RL MDL Unit <0.00200	Result Qualifier RL MDL Unit D <0.00200	Result Qualifier RL MDL Unit D Prepared <0.00200	Result Qualifier RL MDL Unit D Prepared Analyzed <0.00200

Job ID: 890-1504-1

SDG: 31403360.009

Matrix: Solid

Lab Sample ID: 890-1504-13

Client Sample Results

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH07

Date Collected: 10/28/21 15:45 Date Received: 10/29/21 13:00

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:31	11/04/21 04:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/02/21 14:31	11/04/21 04:40	1
o-Terphenyl	114		70 _ 130				11/02/21 14:31	11/04/21 04:40	1

wethod: 300.0 - Anions, ion Chrom	latography - S	eluble						
Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4 *	*_	4.97	mg/ł	(g		11/06/21 23:28	1

Client Sample ID: BH07A

Date Collected: 10/28/21 15:57 Date Received: 10/29/21 13:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:44	11/02/21 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:44	11/02/21 07:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:44	11/02/21 07:45	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/03/21 12:38	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/03/21 08:46	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	<49.8	U *1	49.8		mg/Kg		11/02/21 14:31	11/04/21 05:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 14:31	11/04/21 05:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:31	11/04/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surroyate	/artecovery								
1-Chlorooctane			70 - 130				11/02/21 14:31	11/04/21 05:01	1

		Client	Sample R	esults	;					
Client: WSP USA Inc. Project/Site: Tucker Draw								Job ID: 890 SDG: 31403		2
Client Sample ID: BH07A Date Collected: 10/28/21 15:57							Lab San	nple ID: 890-1 Matri	504-14 x: Solid	
Date Received: 10/29/21 13:00 Sample Depth: 5										
Method: 300.0 - Anions, Ion Chrom Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	14.8		4.95		mg/Kg		Fiepaieu	11/06/21 23:35	1	
										8
										9
										13

Client: WSP USA Inc. Project/Site: Tucker Draw

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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
1504-1	BH01	116	104	
504-1 MS	BH01	109	93	
504-1 MSD	BH01	71	92	
504-2	BH01A	132 S1+	104	
504-3	BH02	125	102	
04-4	BH02A	125	100	
604-5	BH03	122	103	
504-6	BH03A	120	98	
604-7	BH04	117	94	
04-8	BH04A	117	96	
04-9	BH05	75	84	
04-10	BH05A	134 S1+	108	
504-11	BH06	118	101	
04-12	BH06A	127	108	
504-13	BH07	114	99	
504-14	BH07A	121	100	
380-11122/1-A	Lab Control Sample	117	98	
) 880-11122/2-A	Lab Control Sample Dup	112	99	
80-10922/5-A	Method Blank	118	105	
30-11122/5-A	Method Blank	120	105	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7765-A-21-G MS	Matrix Spike	97	98
880-7765-A-21-H MSD	Matrix Spike Duplicate	99	99
890-1504-1	BH01	94	103
890-1504-2	BH01A	93	101
890-1504-3	BH02	96	103
890-1504-4	BH02A	98	109
890-1504-5	BH03	98	104
890-1504-6	BH03A	95	102
890-1504-7	BH04	93	99
890-1504-8	BH04A	93	99
890-1504-9	BH05	88	97
890-1504-10	BH05A	88	97
890-1504-11	BH06	101	117
890-1504-12	BH06A	100	115
890-1504-13	BH07	101	114
890-1504-14	BH07A	98	114
890-1514-A-1-D MS	Matrix Spike	97	81
890-1514-A-1-E MSD	Matrix Spike Duplicate	111	84
LCS 880-11249/2-A	Lab Control Sample	107	119

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Type: Total/NA

		Surrogat	te Sum	mary	
Client: WSP USA Inc.				Job ID: 890-	-1504-1
Project/Site: Tucker Drav	W			SDG: 314033	360.009 2
Method: 8015B NM	- Diesel Range Organics	ទ (DRO) (GC	;) (Contir	nued)	
Matrix: Solid				Prep Type: To	otal/NA 3
				Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1	Percent Surroyate Necovery (Acceptance Linits)	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
LCS 880-11260/2-A	Lab Control Sample	105	90		ɔ
LCSD 880-11249/3-A	Lab Control Sample Dup	105	115		C
LCSD 880-11260/3-A	Lab Control Sample Dup	94	86		6
MB 880-11249/1-A	Method Blank	117	139 S1+		
MB 880-11260/1-A	Method Blank	97	109		
Surrogate Legend					8
1CO = 1-Chlorooctane					U
OTPH = o-Terphenyl					9
					13

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-10922/	5-A								C	lient Sa	mple ID: M	ethod	l Blank
Matrix: Solid											Prep Ty	pe: To	otal/NA
Analysis Batch: 10983											Prep E	Batch:	10922
	МВ	MB											
Analyte	Result	Qualifier	RL		MDL	Unit	I	D	Pre	epared	Analyze	ł	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg			10/29	/21 11:05	11/01/21 13	:51	1
Toluene	<0.00200	U	0.00200			mg/Kg			10/29	/21 11:05	11/01/21 13	:51	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg			10/29	/21 11:05	11/01/21 13	:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			10/29	/21 11:05	11/01/21 13	:51	
o-Xylene	<0.00200	U	0.00200			mg/Kg				/21 11:05	11/01/21 13		1
Xylenes, Total	<0.00400		0.00400			mg/Kg				/21 11:05	11/01/21 13		1
, ,						5 5							
• • •	MB								_				
Surrogate	%Recovery		Limits					-		epared	Analyze		Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130							/21 11:05	11/01/21 13		1
1,4-Difluorobenzene (Surr)	105		70 - 130						10/29	/21 11:05	11/01/21 13	8:51	1
Lab Sample ID: MB 880-11122/	5-A								C	lient Sa	mple ID: M	ethod	l Blank
Matrix: Solid											Prep Ty	pe: To	otal/NA
Analysis Batch: 10983											Prep I	Batch:	: 11122
	MB	MB											
Analyte	Result	Qualifier	RL		MDL	Unit	I	D	Pre	epared	Analyze	ł	Dil Fac
Benzene	<0.00200	U	0.00200			mg/Kg			11/01/	21 12:44	11/02/21 01	:23	1
Toluene	<0.00200	U	0.00200			mg/Kg			11/01/	21 12:44	11/02/21 01	:23	1
Ethylbenzene	<0.00200	U	0.00200			mg/Kg			11/01/	/21 12:44	11/02/21 01	:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400			mg/Kg			11/01	21 12:44	11/02/21 01	:23	1
o-Xylene	<0.00200		0.00200			mg/Kg			11/01/	21 12:44	11/02/21 01	:23	1
Xylenes, Total	<0.00400		0.00400			mg/Kg				21 12:44	11/02/21 01		1
, ,						5 5							
	MB												
Surrogate	%Recovery		Limits					-		epared	Analyze		Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130							/21 12:44	11/02/21 01		1
1,4-Difluorobenzene (Surr)	105		70 - 130						11/01/	/21 12:44	11/02/21 01	:23	1
Lab Sample ID: LCS 880-11122	/1-A							СІ	lient \$	Sample	D: Lab Cor	ntrol S	Sample
Matrix: Solid											Prep Ty		
Analysis Batch: 10983												-	: 11122
			Spike	LCS	LCS						%Rec.		
Analyte			Added	Result		lifier U	Init		D	%Rec	Limits		
Benzene			0.100	0.08859			ng/Kg			89	70 - 130		
Toluene			0.100	0.09434			ng/Kg			94	70 - 130		
Ethylbenzene			0.100	0.1007			ng/Kg			101	70 - 130		
										99	70 - 130 70 - 130		
m-Xylene & p-Xylene			0.200	0.1972			ng/Kg				70 - 130 70 - 130		
o-Xylene			0.100	0.09685		rr	ng/Kg			97	10 - 130		
	LCS LCS												
Surrogate		alifier	Limits										
4-Bromofluorobenzene (Surr)	117		70 - 130										
1,4-Difluorobenzene (Surr)	98		70 - 130										
Lab Sample ID: LCSD 880-1112	2/2-A						Clie	nt s	Samp	ole ID: La	ab Control	Samp	le Dup
Matrix: Solid											Prep Ty		-
Analysis Batch: 10983												-	: 11122
•			Spike	LCSD	LCS	D					%Rec.		RPD
Analyte			Added	Result	Qua	lifier U	Init		D	%Rec	Limits	RPD	Limit

Page 82 of 108

5

6 7 8

Job ID: 890-1504-1 SDG: 31403360.009

Page 83 of 108

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

Lab Sample ID: LCSD 880-11	1122/2-A					Cilei	n san	ihie in:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 10983										Batch:	
			Spike		LCSD				%Rec.		RPI
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Toluene			0.100	0.09574		mg/Kg		96	70 - 130	1	3
Ethylbenzene			0.100	0.1005		mg/Kg		101	70 _ 130	0	
m-Xylene & p-Xylene			0.200	0.1974		mg/Kg		99	70 - 130	0	3
o-Xylene			0.100	0.09567		mg/Kg		96	70 - 130	1	3
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: 890-1504-1 M	NS								Client Sar	nple ID:	BH0
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 10983									Prep	Batch:	1112
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	< 0.00199	U F2 F1	0.100	<0.00200	U F1	mg/Kg		0.4	70 - 130		
Toluene	<0.00199	U F2 F1	0.100	<0.00200	U F1	mg/Kg		-0.03	70 - 130		
Ethylbenzene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	<0.00400	U F1	mg/Kg		0	70 - 130		
o-Xylene	<0.00199	U F2 F1	0.100	<0.00200	U F1	mg/Kg		2	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								
,											
Lab Sample ID: 890-1504-1 M	NSD								Client Sar	nple ID:	BH0
Matrix: Solid									Prep 1	ype: To	tal/N
Analysis Batch: 10983									Prep	Batch:	1112
	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	< 0.00199	U F2 F1	0.0996	0.03503	F2 F1	mg/Kg		35	70 - 130	195	3
Toluene	<0.00199	U F2 F1	0.0996	0.03754	F2 F1	mg/Kg		37	70 - 130	192	3
Ethylbenzene	<0.00199	U F1	0.0996	0.03254	F1	mg/Kg		33	70 - 130	NC	3
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.07059	F1	mg/Kg		35	70 - 130	NC	3
o-Xylene	<0.00199	U F2 F1	0.0996	0.04083	F2 F1	mg/Kg		41	70 - 130	184	З
	MSD	MSD									
Surrogate	wsb %Recovery		Limits								
Sunogale		Quanner	70 - 130								
4-Bromofluorobenzene (Surr)			10-100								

Lab Sample ID: MB 880-11249/1-A Matrix: Solid Analysis Batch: 11321							Client Sa	mple ID: Metho Prep Type: 1 Prep Batcl	Total/NA
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 14:31	11/03/21 19:59	1
(GRO)-C6-C10									

Job ID: 890-1504-1 SDG: 31403360.009

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

Lab Sample ID: MB 880-11249/	I-A									client Sa	ample ID:		
Matrix: Solid													otal/NA
Analysis Batch: 11321		ІВ МВ									Prep	p Batch	n: 11249
Analyta		IB MB	Ы		MDL	Unit		D	Dr	opered	Anoly	zod	Dil Fac
Analyte Diesel Range Organics (Over		.0 U	RL 50.0		MDL	mg/Kg				epared 2/21 14:31	Analy: 11/03/21		
C10-C28)	-50	.0 0	50.0			my/rxy			11/02	./21 14.51	11/03/21	19.59	
Oll Range Organics (Over C28-C36)	<50	.0 U	50.0			mg/Kg		1	11/02	2/21 14:31	11/03/21	19:59	
•		IB MB							_				
Surrogate	%Recove		Limits					_		epared	Analy		Dil Fa
1-Chlorooctane		17	70 - 130							2/21 14:31			
o-Terphenyl	1.	39 S1+	70 - 130					1	11/02	2/21 14:31	11/03/21	19:59	
Lab Sample ID: LCS 880-11249	1/2-A							Cli	ent	Sample	ID: Lab C	ontrol	Sample
Matrix: Solid										oumpio		Type: T	
Analysis Batch: 11321												p Batch	
			Spike	LCS	LCS						%Rec.		
Analyte			Added	Result		lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics			1000	866.1			mg/Kg			87	70 - 130		
(GRO)-C6-C10							5.5			- 1			
Diesel Range Organics (Over			1000	1156			mg/Kg			116	70 - 130		
C10-C28)													
	LCS L	cs											
		ualifier	Limits										
Surrogate	%Recoverv Q												
	Q		70 - 130										
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-1124	107 119		70 - 130 70 - 130				Cli	ent S	am	ple ID: L	ab Contro	-	
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid	107 119		70 - 130				Cli	ent S	amı	ple ID: L	Prep Prep	ol Samı Type: T o Batch	otal/NA 1: 11249
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321	107 119		70 - 130 Spike	LCSD						-	Prep Prep %Rec.	Type: T p Batch	otal/NA 11249 RPE
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte	107 119		70 - 130 Spike Added	Result	Qua		Unit		amı	%Rec	Prep Prep %Rec. Limits	Type: T p Batch RPD	otal/NA 11249 RPC
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics	107 119		70 - 130 Spike		Qua					-	Prep Prep %Rec.	Type: T p Batch	otal/NA 11249 RPC
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10	107 119		70 - 130 Spike Added	Result	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits	Type: T p Batch RPD	otal/NA 1: 11249 RPE Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 119		70 - 130 Spike Added 1000	Result 1127	Qua		Unit			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 1: 11249 RPI Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 119 19/3-A		70 - 130 Spike Added 1000	Result 1127	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 1: 11249 RPI Limi
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	107 119 19/3-A LCSD L		70 - 130 Spike Added 1000	Result 1127	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 1: 11249 RPI Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	107 119 19/3-A LCSD L %Recovery Q		70 - 130 Spike Added 1000 1000 Limits	Result 1127	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 1: 11249 RPI Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	107 119 19/3-A LCSD L %Recovery Q 105		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1127	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 11249 RPE Limi
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	107 119 19/3-A LCSD L %Recovery Q		70 - 130 Spike Added 1000 1000 Limits	Result 1127	Qua		Unit mg/Kg			%Rec	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch 	otal/NA 1: 11249 RPE Limi
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCSD L %Recovery Q 105 115		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1127	Qua		Unit mg/Kg			%Rec 113 116	Prep Prep %Rec. Limits 70 - 130	Type: T p Batch RPD 26 0	otal/NA : 1124 RPI Limi 20 20
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21-	LCSD L %Recovery Q 105 115		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1127	Qua		Unit mg/Kg			%Rec 113 116	Prep	Type: T p Batch RPD 26 0	otal/N/ : 11245 RPE Limi 20 20 x Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid	LCSD L %Recovery Q 105 115		70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1127	Qua		Unit mg/Kg			%Rec 113 116	Prep Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep	Type: T p Batch <u>RPD</u> 26 0 0 26 0	ti 11245 RPE <u>Limi</u> 20 20 x Spike Total/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid	LCSD L %Recovery Q 105 115	CSD ualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 1127 1158	Qua		Unit mg/Kg			%Rec 113 116	Prep Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep	Type: T p Batch 26 0 0 2: Matri Type: T	ti 11245 RPE <u>Limi</u> 20 20 x Spike Total/NA
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321	LCSD L %Recovery Q 105 115 -G MS	CSD ualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	Result 1127 1158	Qual *1	lifier	Unit mg/Kg			%Rec 113 116	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Sample ID Prep Prep	Type: T p Batch 26 0 0 2: Matri Type: T	ti 11245 RPE <u>Limi</u> 20 20 x Spike Total/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics	107 119 19/3-A <i>LCSD L</i> % <i>Recovery Q</i> 105 115 G MS Sample S	CSD ualifier	70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130 Spike	Result 1127 1158 MS	Qual *1	lifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 113 116	Prep %Rec. Limits 70 - 130 70 - 130 Sample ID Prep %Rec.	Type: T p Batch 26 0 0 2: Matri Type: T	x Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10	107 119 19/3-A LCSD L %Recovery Q 105 115 G MS Sample S Result Q <49.9 U	CSD ualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 500 500 500 400 1000 1000 500 <td>Result 1127 1158 MS Result 1180</td> <td>Qual *1</td> <td>lifier</td> <td>Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg</td> <td></td> <td><u>D</u></td> <td>%Rec 113 116 Client 3 %Rec 118</td> <td>Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130</td> <td>Type: T p Batch 26 0 0 2: Matri Type: T</td> <td>x Spike</td>	Result 1127 1158 MS Result 1180	Qual *1	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg		<u>D</u>	%Rec 113 116 Client 3 %Rec 118	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130	Type: T p Batch 26 0 0 2: Matri Type: T	x Spike
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 119 19/3-A 19/3-A 19/3-A 115 105 115 G MS Sample S Result Q	CSD ualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 1000 50 - 130 70 - 130 70 - 130 Spike Added	Result 1127 1158 MS Result	Qual *1	lifier	Unit mg/Kg mg/Kg		<u>D</u>	%Rec 113 116 Client \$ %Rec	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 90 - 130 Prep %Rec. Limits	Type: T p Batch 26 0 0 2: Matri Type: T	x Spike otal/NJ 2 2 2 x Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 119 19/3-A LCSD L %Recovery Q 105 115 G MS Sample S Result Q <49.9 U	CSD ualifier	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 500 500 500 400 1000 1000 500 <td>Result 1127 1158 MS Result 1180</td> <td>Qual *1</td> <td>lifier</td> <td>Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg</td> <td></td> <td><u>D</u></td> <td>%Rec 113 116 Client 3 %Rec 118</td> <td>Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130</td> <td>Type: T p Batch 26 0 0 2: Matri Type: T</td> <td>x Spike</td>	Result 1127 1158 MS Result 1180	Qual *1	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg		<u>D</u>	%Rec 113 116 Client 3 %Rec 118	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130	Type: T p Batch 26 0 0 2: Matri Type: T	x Spike
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	107 119 19/3-A LCSD L %Recovery Q 105 115 G MS Sample S Result Q <49.9 U	CSD ualifier ample ualifier *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 500 500 500 400 1000 1000 500 <td>Result 1127 1158 MS Result 1180</td> <td>Qual *1</td> <td>lifier</td> <td>Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg</td> <td></td> <td><u>D</u></td> <td>%Rec 113 116 Client 3 %Rec 118</td> <td>Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130</td> <td>Type: T p Batch 26 0 0 2: Matri Type: T</td> <td>ti 11245 RPE <u>Limi</u> 20 20 x Spike Total/NA</td>	Result 1127 1158 MS Result 1180	Qual *1	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg		<u>D</u>	%Rec 113 116 Client 3 %Rec 118	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130	Type: T p Batch 26 0 0 2: Matri Type: T	ti 11245 RPE <u>Limi</u> 20 20 x Spike Total/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	107 119 19/3-A LCSD L %Recovery Q 105 115 G MS Sample S Result Q <49.9 U <49.9 U MS M	CSD ualifier ample ualifier *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 500 500 500 400 1000 1000 500 <td>Result 1127 1158 MS Result 1180</td> <td>Qual *1</td> <td>lifier</td> <td>Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg</td> <td></td> <td><u>D</u></td> <td>%Rec 113 116 Client 3 %Rec 118</td> <td>Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130</td> <td>Type: T p Batch 26 0 0 2: Matri Type: T</td> <td>Total/NA 11249 RPD Limin 20 20 20 x Spike Total/NA</td>	Result 1127 1158 MS Result 1180	Qual *1	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg		<u>D</u>	%Rec 113 116 Client 3 %Rec 118	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130	Type: T p Batch 26 0 0 2: Matri Type: T	Total/NA 11249 RPD Limin 20 20 20 x Spike Total/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-1124 Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-7765-A-21- Matrix: Solid Analysis Batch: 11321 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	107 119 19/3-A LCSD L %Recovery Q 105 115 G MS Sample S Result Q <49.9 U <49.9 U MS M	CSD ualifier ample ualifier *1	70 - 130 Spike Added 1000 1000 1000 1000 1000 1000 1000 1000 50 70 - 130 70 - 130 70 - 130 997 997 997	Result 1127 1158 MS Result 1180	Qual *1	lifier	Unit mg/Kg mg/Kg <u>Unit</u> mg/Kg		<u>D</u>	%Rec 113 116 Client 3 %Rec 118	Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 %Rec. Prep %Rec. Limits 70 - 130	Type: T p Batch 26 0 0 2: Matri Type: T	x Spike

Eurofins Xenco, Carlsbad

Lab Sample ID: 880-7765-A-21-H										Clie	nt Sa	ample ID	: Matrix S	-		Α
Matrix: Solid														Type: To		
Analysis Batch: 11321			_											p Batch:		5
	Sample		-	Spike		MSD	MSD				_		%Rec.		RPD	5
Analyte	Result		lifier	Added		Result	Qua	ifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1		1000		1192			mg/Kg			119	70 - 130	1	20	0
Diesel Range Organics (Over C10-C28)	<49.9	U		1000		1081			mg/Kg			108	70 - 130	2	20	7
	MSD	MSE)													8
Surrogate	%Recovery	Qua	lifier	Limits												
1-Chlorooctane	99			70 - 130	-											0
o-Terphenyl	99			70 - 130												3
																10
Lab Sample ID: MB 880-11260/1-	-A											Client S	ample ID:	Method	Blank	
Matrix: Solid													Prep	Type: To	otal/NA	
Analysis Batch: 11319													Pre	p Batch:	11260	11
		МΒ	MB													
Analyte	R	esult	Qualifier		RL		MDL	Unit		D	P	repared	Analy	zed	Dil Fac	12
Gasoline Range Organics (GRO)-C6-C10		<50.0	U		50.0			mg/Kg	1	_	11/0	2/21 15:51	11/03/21	10:40	1	13
Diesel Range Organics (Over C10-C28)	~	<50.0	U		50.0			mg/Kg	I		11/02	2/21 15:51	11/03/21	10:40	1	
Oll Range Organics (Over C28-C36)	<	<50.0	U		50.0			mg/Kg	1		11/02	2/21 15:51	11/03/21	10:40	1	14
0	0/ D	MB	MB		- 14 -						-		A		D# 5	
Surrogate	%Reco	-	Qualifier									repared	Analy		Dil Fac	
1-Chlorooctane		97			. 130							2/21 15:51	11/03/21			
o-Terphenyl		109		70	- 130						11/0	2/21 15:51	11/03/21	10:40	1	
Lab Sample ID: LCS 880-11260/2	2-A									С	lient	Sample	ID: Lab C	ontrol S	ample	
Matrix: Solid													Prep	Type: To	tal/NA	
Analysis Batch: 11319													Pre	p Batch:	11260	
				Spike		LCS	LCS						%Rec.			
Analyte				Added		Result	Qua	ifier	Unit		D	%Rec	Limits			
Gasoline Range Organics				1000		838.4			mg/Kg			84	70 - 130			
(GRO)-C6-C10																
Diesel Range Organics (Over				1000		851.4			mg/Kg			85	70 - 130			
C10-C28)																
	LCS	LCS														
Surrogate	%Recovery	Qua		Limits												
1-Chlorooctane	105			70 - 130	-											
o-Terphenyl	90			70 - 130												

Lab Sample ID: LCSD 880-11260/3-A Matrix: Solid Analysis Batch: 11319				Clier	nt Sam	iple ID:		I Sampl ype: To Batch:	tal/NA
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	953.0		mg/Kg		95	70 - 130	13	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	788.7		mg/Kg		79	70 - 130	8	20
C10-C28)									

ab Sample ID: LCSD 880-11	1260/3-A					Clie	nt San	nple ID: I	Lab Contro	I Sampl	e Dup
latrix: Solid								-	Prep T	ype: To	tal/NA
nalysis Batch: 11319									Prep	Batch:	11260
	LCSD	LCSD									
urrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	94		70 - 130								
-Terphenyl	86		70 - 130								
ab Sample ID: 890-1514-A-	1-D MS							Client	Sample ID:	: Matrix	Spike
Aatrix: Solid										ype: To	-
Analysis Batch: 11319									Prep	Batch:	11260
	Sample	Sample	Spike	MS	MS				%Rec.		
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<49.9	U	997	931.4		mg/Kg		93	70 - 130		
Diesel Range Organics (Over 210-C28)	<49.9	U	997	868.7		mg/Kg		85	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	97		70 - 130								
-Terphenyl	81		70 - 130								
_ab Sample ID: 890-1514-A-	1-E MSD					C	ient S	ample IC	: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 11319									Prep	Batch:	11 <mark>260</mark>
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
asoline Range Organics GRO)-C6-C10	<49.9	U	1000	964.0		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over 210-C28)	<49.9	U	1000	900.3		mg/Kg		88	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane			70 - 130								
-Terphenyl	84		70 - 130								
ethod: 300.0 - Anions, I	lon Chromat	ography									
.ab Sample ID: MB 880-1122	27/1-A							Client S	ample ID: I	Method	Blank
Matrix: Solid										Type: S	
Analysis Batch: 11379									•		
-		MB MB									
Analyte		esult Qualifier		RL	MDL Unit		о р	repared	Analyz		Dil Fac

Analyte	Result	Qualifier	RL	l	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		n	ng/Kg			11/06/21 05:15	1
Lab Sample ID: LCS 880-11227/2-A Matrix: Solid Analysis Batch: 11379							Clie	ent Sample	ID: Lab Control Prep Type:	
		s	pike	LCS	LCS				%Rec.	
Analyte		Ac	ded	Result	Qualifi	ier Unit	[D %Rec	Limits	
Chloride			250	266.7		mg/Kg		107	90 - 110	

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Client: WSP USA Inc.

Project/Site: Tucker Draw

Job ID: 890-1504-1 SDG: 31403360.009

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-112 Matrix: Solid	227/3-A					Cli	ent Sar	nple ID:	Lab Contro Prep	ol Sampl Type: So	
Analysis Batch: 11379										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	267.5		mg/Kg		107	90 - 110	0	20
Lab Sample ID: 890-1504-7 MS	S								Client Sar	mple ID:	BH04
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 11379											
	Sample	-	Spike		MS		_	~-	%Rec.		
Analyte		Qualifier	Added 248	445.9	Qualifier	Unit mg/Kg	<u>D</u>	%Rec 105	Limits 90 - 110		
Chionde	180		240	440.9		mg/rtg		105	90 - 110		
Lab Sample ID: 890-1504-7 MS	SD								Client Sa	mple ID:	BH04
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 11379											
	Sample	-	Spike		MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limi
Chloride	186		248	441.5		mg/Kg		103	90 _ 110	1	20
Lab Sample ID: MB 880-11235 Matrix: Solid	i/1-A							Client	Sample ID: Prep	Method Type: So	
Analysis Batch: 11380											
		MB MB									
							DF	Jronarad	Analyz	and a	Dil Fac
		esult Qualifier			MDL Unit			Prepared	Analyz		
Analyte Chloride		esult Qualifier 5.00 U		5.00	mDL Unit mg/Kg	9	<u> </u>	repareu	11/06/21		
Chloride	<]		-	11/06/21	22:29	
Chloride Lab Sample ID: LCS 880-1123	<]		-	11/06/21 e ID: Lab C	22:29 ontrol Sa	ample
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid	<					9		-	11/06/21 e ID: Lab C	22:29	ample
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid	<		 Spike	5.00)		-	11/06/21 e ID: Lab C	22:29 ontrol Sa	ample
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380	<		Spike Added	5.00 LCS	mg/K	Unit		-	11/06/21 e ID: Lab Co Prep	22:29 ontrol Sa	1 ample
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte	<		-	5.00 LCS	LCS	-	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec.	22:29 ontrol Sa	1 ample
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride	5/2-A		Added	5.00 LCS Result	mg/Kg LCS Qualifier	Unit mg/Kg	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec. Limits 90 - 110	22:29 ontrol Sa Type: So	ample oluble
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112	5/2-A		Added	5.00 LCS Result	mg/Kg LCS Qualifier	Unit mg/Kg	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Control	22:29 ontrol Sa Type: So ol Sampl	1 ample oluble e Dup
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid	5/2-A		Added	5.00 LCS Result	mg/Kg LCS Qualifier	Unit mg/Kg	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Control	22:29 ontrol Sa Type: So	1 ample oluble e Dup
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid	5/2-A		Added	5.00 LCS Result 222.3	mg/Kg LCS Qualifier	Unit mg/Kg	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Control	22:29 ontrol Sa Type: So ol Sampl	ample oluble e Dup oluble
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380	5/2-A		Added 250	5.00 LCS Result 222.3	LCS Qualifier *-	Unit mg/Kg	Clien	t Sample	11/06/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep	22:29 ontrol Sa Type: So ol Sampl	1 oluble e Dup oluble RPD
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte	5/2-A		Added 250 Spike	5.00 LCS Result 222.3	LCS Qualifier *-	Unit mg/Kg Cli	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID:	11/06/21 e ID: Lab Co %Rec. Limits 90 - 110 Lab Control Prep %Rec.	22:29 ontrol Sa Type: So ol Sampl Type: So	e Dup oluble e Dup oluble RPC Limit
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Chloride	5/2-A 		Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result	LCS Qualifier *-	Unit mg/Kg Cli Unit	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprepond %Rec. Limits 90 - 110 %Rec. Limits 90 - 110	22:29 ontrol Sa Type: So ol Sampl Type: So 	e Dup oluble cluble RPE Limi 20
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M	5/2-A 		Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result	LCS Qualifier *-	Unit mg/Kg Cli Unit	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprepond %Rec. Limits 90 - 110 Climits 90 - 110	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E	e Dup oluble cluble cluble RPC Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M Matrix: Solid	5/2-A 		Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result	LCS Qualifier *-	Unit mg/Kg Cli Unit	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprepond %Rec. Limits 90 - 110 Climits 90 - 110	22:29 ontrol Sa Type: So ol Sampl Type: So 	ample oluble e Dup oluble RPD Limit 20 8H05A
	5/2-A 235/3-A	5.00 U	Added 250 Spike Added 250	5.00 LCS Result 222.3 LCSD Result 225.3	LCS Qualifier *-	Unit mg/Kg Cli Unit	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correst %Rec. Limits 90 - 110 Lab Control %Rec. Limits 90 - 110 Client Sam Prep	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E	ample oluble e Dup oluble RPD Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M Matrix: Solid	5/2-A 235/3-A NS Sample	5.00 U	Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result 225.3	LCS Qualifier *-	Unit mg/Kg Cli Unit	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprepond %Rec. Limits 90 - 110 Climits 90 - 110	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E	e Dup oluble cluble cluble RPC Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M Matrix: Solid Analysis Batch: 11380 Analysis Batch: 11380 Analyte Analyte	5/2-A 235/3-A NS Sample	5.00 U	Added 250 Spike Added 250 Spike	5.00 LCS Result 222.3 LCSD Result 225.3	LCS Qualifier *- LCSD Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> 89 nple ID: <u>%Rec</u> 90	11/06/21 e ID: Lab Correst %Rec. Limits 90 - 110 Lab Contropy %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E	e Dup oluble cluble cluble RPC Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M Matrix: Solid Analysis Batch: 11380 Analyte Chloride Chloride Chloride	5/2-A 235/3-A NS <u>Sample</u> <u>Result</u> 88.0	5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result 225.3 MS Result	LCS Qualifier *- LCSD Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> <u>89</u> nple ID: <u>%Rec</u> <u>90</u>	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110	22:29 ontrol Sa Type: So DI Sampl Type: So RPD 1 ple ID: E Type: So	e Dup oluble RPD Limit 20 8H05A oluble
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N	5/2-A 235/3-A NS <u>Sample</u> <u>Result</u> 88.0	5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result 225.3 MS Result	LCS Qualifier *- LCSD Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> <u>89</u> nple ID: <u>%Rec</u> <u>90</u>	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam %Rec. Limits 90 - 110 Client Sam 90 - 110 Client Sam	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E Type: So ple ID: E	ample oluble e Dup oluble RPD Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N Matrix: Solid	5/2-A 235/3-A NS <u>Sample</u> <u>Result</u> 88.0	5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result 225.3 MS Result	LCS Qualifier *- LCSD Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> <u>89</u> nple ID: <u>%Rec</u> <u>90</u>	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam %Rec. Limits 90 - 110 Client Sam 90 - 110 Client Sam	22:29 ontrol Sa Type: So DI Sampl Type: So RPD 1 ple ID: E Type: So	1 ample oluble e Dup oluble RPD Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 N Matrix: Solid	5/2-A 5/2-A 235/3-A AS <u>Sample</u> <u>Result</u> 88.0	5.00 U	Added 250 Spike Added 250 Spike Added 250	5.00 LCS Result 222.3 LCSD Result 225.3 MS Result 328.9	LCS Qualifier *- LCSD Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> <u>89</u> nple ID: <u>%Rec</u> <u>90</u>	11/06/21 e ID: Lab Correst %Rec. Limits 90 - 110 Lab Controc %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam 90 - 110 Client Sam 90 - 110 Client Sam Prep	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E Type: So ple ID: E	1 ample oluble e Dup oluble RPD Limit 20 8H05A
Chloride Lab Sample ID: LCS 880-1123 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: LCSD 880-112 Matrix: Solid Analysis Batch: 11380 Analyte Chloride Lab Sample ID: 890-1504-10 M Matrix: Solid Analysis Batch: 11380	5/2-A 5/2-A 235/3-A NS <u>Sample</u> 88.0 NSD Sample	5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 222.3 LCSD Result 225.3 MS Result 328.9	LCS Qualifier *- MS Qualifier	Unit mg/Kg Cli Unit mg/Kg	Clien D ent Sar	t Sample <u>%Rec</u> <u>89</u> nple ID: <u>%Rec</u> <u>90</u>	11/06/21 e ID: Lab Correspond %Rec. Limits 90 - 110 Lab Controprep %Rec. Limits 90 - 110 Client Sam Prep %Rec. Limits 90 - 110 Client Sam %Rec. Limits 90 - 110 Client Sam 90 - 110 Client Sam	22:29 ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 1 ple ID: E Type: So ple ID: E	1 ample oluble e Dup oluble Limit 20 BH05A oluble

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QC Sample Results

Job ID: 890-1504-1 SDG: 31403360.009

Client: WSP USA Inc. Project/Site: Tucker Draw

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11234/1	-A									С	lient S	ample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 11450														
		MB MB												
Analyte		esult Qualifier		RL		MDL	Unit		<u>D</u>	Pre	pared	Analy	zed	Dil Fac
Chloride	<	5.00 U		5.00			mg/Kg)				11/08/21	22:12	1
Lab Sample ID: LCS 880-11234/	2-A								Clie	nt S	ample	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 11450														
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qual	ifier	Unit	[D S	%Rec	Limits		
Chloride			250		274.0			mg/Kg			110	90 - 110		
Lab Sample ID: LCSD 880-11234	4/3-A							Cli	ent Sa	amp	le ID: I	Lab Contr	ol Sampl	le Dup
Matrix: Solid													Type: S	
Analysis Batch: 11450														
			Spike		LCSD	LCSI	C					%Rec.		RPD
Analyte			Added		Result	Qual	ifier	Unit	[כ כ	%Rec	Limits	RPD	Limit
Chloride			250		274.0			mg/Kg			110	90 _ 110	0	20
Lab Sample ID: 880-7809-A-6-E	MS										Client	Sample II	D: Matrix	Spike
Matrix: Solid													Type: S	
Analysis Batch: 11450														
	Sample	Sample	Spike		MS	MS						%Rec.		
Analyte	Result	Qualifier	Added		Result	Qual	ifier	Unit	0	o e	%Rec	Limits		
Chloride	36.9		250		308.7			mg/Kg			109	90 - 110		
Lab Sample ID: 880-7809-A-6-F	MSD								Client	San	nole ID): Matrix S	pike Dur	olicate
Matrix: Solid													Type: S	
Analysis Batch: 11450														
	Sample	Sample	Spike		MSD	MSD						%Rec.		RPD
Analyte	-	Qualifier	Added		Result	Qual	ifier	Unit		b 6	%Rec	Limits	RPD	Limit
Chloride	36.9		250									90 - 110		

Client: WSP USA Inc. Project/Site: Tucker Draw Job ID: 890-1504-1

SDG: 31403360.009

GC VOA

Prep Batch: 10922

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-10922/5-A	Method Blank	Total/NA	Solid	5035	
Analysis Batch: 10	983				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	8021B	11122

GC VOA					
Prep Batch: 10922					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-10922/5-A	Method Blank	Total/NA	Solid	5035	
- Analysis Batch: 10983	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	8021B	11122
890-1504-2	BH01A	Total/NA	Solid	8021B	11122
890-1504-3	BH02	Total/NA	Solid	8021B	11122
890-1504-4	BH02A	Total/NA	Solid	8021B	11122
890-1504-5	BH03	Total/NA	Solid	8021B	11122
890-1504-6	BH03A	Total/NA	Solid	8021B	11122
890-1504-7	BH04	Total/NA	Solid	8021B	11122
890-1504-8	BH04A	Total/NA	Solid	8021B	11122
890-1504-9	BH05	Total/NA	Solid	8021B	11122
890-1504-10	BH05A	Total/NA	Solid	8021B	11122
890-1504-11	BH06	Total/NA	Solid	8021B	11122
890-1504-12	BH06A	Total/NA	Solid	8021B	11122
890-1504-13	BH07	Total/NA	Solid	8021B	11122
890-1504-14	BH07A	Total/NA	Solid	8021B	11122
MB 880-10922/5-A	Method Blank	Total/NA	Solid	8021B	10922
MB 880-11122/5-A	Method Blank	Total/NA	Solid	8021B	11122
LCS 880-11122/1-A	Lab Control Sample	Total/NA	Solid	8021B	11122
LCSD 880-11122/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11122
890-1504-1 MS	BH01	Total/NA	Solid	8021B	11122
890-1504-1 MSD	BH01	Total/NA	Solid	8021B	11122

Prep Batch: 11122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	5035	
890-1504-2	BH01A	Total/NA	Solid	5035	
890-1504-3	BH02	Total/NA	Solid	5035	
890-1504-4	BH02A	Total/NA	Solid	5035	
890-1504-5	BH03	Total/NA	Solid	5035	
890-1504-6	BH03A	Total/NA	Solid	5035	
890-1504-7	BH04	Total/NA	Solid	5035	
890-1504-8	BH04A	Total/NA	Solid	5035	
890-1504-9	BH05	Total/NA	Solid	5035	
890-1504-10	BH05A	Total/NA	Solid	5035	
890-1504-11	BH06	Total/NA	Solid	5035	
890-1504-12	BH06A	Total/NA	Solid	5035	
890-1504-13	BH07	Total/NA	Solid	5035	
890-1504-14	BH07A	Total/NA	Solid	5035	
MB 880-11122/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11122/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11122/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1504-1 MS	BH01	Total/NA	Solid	5035	
890-1504-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	Total BTEX	
890-1504-2	BH01A	Total/NA	Solid	Total BTEX	

Client: WSP USA Inc. Project/Site: Tucker Draw

GC VOA (Continued)

Analysis Batch: 11149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-3	BH02	Total/NA	Solid	Total BTEX	
890-1504-4	BH02A	Total/NA	Solid	Total BTEX	
890-1504-5	BH03	Total/NA	Solid	Total BTEX	
890-1504-6	BH03A	Total/NA	Solid	Total BTEX	
890-1504-7	BH04	Total/NA	Solid	Total BTEX	
890-1504-8	BH04A	Total/NA	Solid	Total BTEX	
890-1504-9	BH05	Total/NA	Solid	Total BTEX	
890-1504-10	BH05A	Total/NA	Solid	Total BTEX	
890-1504-11	BH06	Total/NA	Solid	Total BTEX	
890-1504-12	BH06A	Total/NA	Solid	Total BTEX	
890-1504-13	BH07	Total/NA	Solid	Total BTEX	
890-1504-14	BH07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11249

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-11	BH06	Total/NA	Solid	8015NM Prep	
890-1504-12	BH06A	Total/NA	Solid	8015NM Prep	
890-1504-13	BH07	Total/NA	Solid	8015NM Prep	
890-1504-14	BH07A	Total/NA	Solid	8015NM Prep	
MB 880-11249/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11249/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11249/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7765-A-21-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7765-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 11260

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	8015NM Prep	
890-1504-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1504-3	BH02	Total/NA	Solid	8015NM Prep	
890-1504-4	BH02A	Total/NA	Solid	8015NM Prep	
890-1504-5	BH03	Total/NA	Solid	8015NM Prep	
890-1504-6	BH03A	Total/NA	Solid	8015NM Prep	
890-1504-7	BH04	Total/NA	Solid	8015NM Prep	
890-1504-8	BH04A	Total/NA	Solid	8015NM Prep	
890-1504-9	BH05	Total/NA	Solid	8015NM Prep	
890-1504-10	BH05A	Total/NA	Solid	8015NM Prep	
MB 880-11260/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11260/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1514-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1514-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11319

L	ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method F	Prep Batch
8	90-1504-1	BH01	Total/NA	Solid	8015B NM	11260
8	90-1504-2	BH01A	Total/NA	Solid	8015B NM	11260
8	90-1504-3	BH02	Total/NA	Solid	8015B NM	11260
8	90-1504-4	BH02A	Total/NA	Solid	8015B NM	11260

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Job ID: 890-1504-1 SDG: 31403360.009

Released to Imaging: 12/22/2021 9:17:30 AM

Client: WSP USA Inc. Project/Site: Tucker Draw

GC Semi VOA (Continued)

Analysis Batch: 11319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-5	BH03	Total/NA	Solid	8015B NM	11260
890-1504-6	BH03A	Total/NA	Solid	8015B NM	11260
890-1504-7	BH04	Total/NA	Solid	8015B NM	11260
890-1504-8	BH04A	Total/NA	Solid	8015B NM	11260
890-1504-9	BH05	Total/NA	Solid	8015B NM	11260
890-1504-10	BH05A	Total/NA	Solid	8015B NM	11260
MB 880-11260/1-A	Method Blank	Total/NA	Solid	8015B NM	11260
LCS 880-11260/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11260
LCSD 880-11260/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11260
890-1514-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	11260
890-1514-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11260

Analysis Batch: 11321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-11	BH06	Total/NA	Solid	8015B NM	11249
890-1504-12	BH06A	Total/NA	Solid	8015B NM	11249
890-1504-13	BH07	Total/NA	Solid	8015B NM	11249
890-1504-14	BH07A	Total/NA	Solid	8015B NM	11249
MB 880-11249/1-A	Method Blank	Total/NA	Solid	8015B NM	11249
LCS 880-11249/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11249
LCSD 880-11249/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11249
880-7765-A-21-G MS	Matrix Spike	Total/NA	Solid	8015B NM	11249
880-7765-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11249

Analysis Batch: 11344

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Total/NA	Solid	8015 NM	
890-1504-2	BH01A	Total/NA	Solid	8015 NM	
890-1504-3	BH02	Total/NA	Solid	8015 NM	
890-1504-4	BH02A	Total/NA	Solid	8015 NM	
890-1504-5	BH03	Total/NA	Solid	8015 NM	
890-1504-6	BH03A	Total/NA	Solid	8015 NM	
890-1504-7	BH04	Total/NA	Solid	8015 NM	
890-1504-8	BH04A	Total/NA	Solid	8015 NM	
890-1504-9	BH05	Total/NA	Solid	8015 NM	
890-1504-10	BH05A	Total/NA	Solid	8015 NM	
890-1504-11	BH06	Total/NA	Solid	8015 NM	
890-1504-12	BH06A	Total/NA	Solid	8015 NM	
890-1504-13	BH07	Total/NA	Solid	8015 NM	
890-1504-14	BH07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11227

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Soluble	Solid	DI Leach	
890-1504-2	BH01A	Soluble	Solid	DI Leach	
890-1504-3	BH02	Soluble	Solid	DI Leach	
890-1504-4	BH02A	Soluble	Solid	DI Leach	
890-1504-5	BH03	Soluble	Solid	DI Leach	
890-1504-6	BH03A	Soluble	Solid	DI Leach	

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Job ID: 890-1504-1 SDG: 31403360.009

Client: WSP USA Inc. Project/Site: Tucker Draw

HPLC/IC (Continued)

Lab Sample ID

890-1504-7

Leach Batch: 11227 (Continued

tinued)			
Client Sample ID	Prep Type	Matrix	Method
BH04	Soluble	Solid	DI Leach
Method Blank	Soluble	Solid	DI Leach

MB 880-11227/1-A	Method Blank	Soluble	Solid
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid
890-1504-7 MS	BH04	Soluble	Solid
890-1504-7 MSD	BH04	Soluble	Solid

Leach Batch: 11234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1504-8	BH04A	Soluble	Solid	DI Leach		Ģ
890-1504-9	BH05	Soluble	Solid	DI Leach		
MB 880-11234/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-11234/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-11234/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
880-7809-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach		
880-7809-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		

Leach Batch: 11235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-10	BH05A	Soluble	Solid	DI Leach	
890-1504-11	BH06	Soluble	Solid	DI Leach	
890-1504-12	BH06A	Soluble	Solid	DI Leach	
890-1504-13	BH07	Soluble	Solid	DI Leach	
890-1504-14	BH07A	Soluble	Solid	DI Leach	
MB 880-11235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1504-10 MS	BH05A	Soluble	Solid	DI Leach	
890-1504-10 MSD	BH05A	Soluble	Solid	DI Leach	

Analysis Batch: 11379

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-1	BH01	Soluble	Solid	300.0	11227
890-1504-2	BH01A	Soluble	Solid	300.0	11227
890-1504-3	BH02	Soluble	Solid	300.0	11227
890-1504-4	BH02A	Soluble	Solid	300.0	11227
890-1504-5	BH03	Soluble	Solid	300.0	11227
890-1504-6	BH03A	Soluble	Solid	300.0	11227
890-1504-7	BH04	Soluble	Solid	300.0	11227
MB 880-11227/1-A	Method Blank	Soluble	Solid	300.0	11227
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid	300.0	11227
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11227
890-1504-7 MS	BH04	Soluble	Solid	300.0	11227
890-1504-7 MSD	BH04	Soluble	Solid	300.0	11227

Analysis Batch: 11380

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-10	BH05A	Soluble	Solid	300.0	11235
890-1504-11	BH06	Soluble	Solid	300.0	11235
890-1504-12	BH06A	Soluble	Solid	300.0	11235
890-1504-13	BH07	Soluble	Solid	300.0	11235

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Page 92 of 108

Prep Batch

Job ID: 890-1504-1 SDG: 31403360.009

DI Leach

DI Leach

DI Leach

DI Leach

Client: WSP USA Inc. Project/Site: Tucker Draw

HPLC/IC (Continued)

Analysis Batch: 11380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1504-14	BH07A	Soluble	Solid	300.0	11235
MB 880-11235/1-A	Method Blank	Soluble	Solid	300.0	11235
LCS 880-11235/2-A	Lab Control Sample	Soluble	Solid	300.0	11235
LCSD 880-11235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11235
890-1504-10 MS	BH05A	Soluble	Solid	300.0	11235
890-1504-10 MSD	BH05A	Soluble	Solid	300.0	11235

Analysis Batch: 11450

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1504-8	BH04A	Soluble	Solid	300.0	11234
890-1504-9	BH05	Soluble	Solid	300.0	11234
MB 880-11234/1-A	Method Blank	Soluble	Solid	300.0	11234
LCS 880-11234/2-A	Lab Control Sample	Soluble	Solid	300.0	11234
LCSD 880-11234/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11234
880-7809-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	11234
880-7809-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11234

Page 93 of 108

Job ID: 890-1504-1 SDG: 31403360.009

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH01 Date Collected: 10/28/21 09:55

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Fotal/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Fotal/NA	Analysis	8015B NM		1			11319	11/03/21 12:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		5			11379	11/06/21 06:24	СН	XEN MID

Lab Sample ID: 890-1504-2

Lab Sample ID: 890-1504-3

Lab Sample ID: 890-1504-4

Matrix: Solid

Matrix: Solid

9

Client Sample ID: BH01A Date Collected: 10/28/21 10:30

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 02:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		5			11379	11/06/21 06:47	CH	XEN MID

Client Sample ID: BH02

Date Collected: 10/28/21 11:10

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 06:55	CH	XEN MID

Client Sample ID: BH02A Date Collected: 10/28/21 11:40 Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 02:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

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Page 94 of 108

Job ID: 890-1504-1 SDG: 31403360.009

Lab Sample ID: 890-1504-1

Matrix: Solid

		D

Matrix: Solid

Job ID: 890-1504-1

SDG: 31403360.009

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1504-4

Lab Sample ID: 890-1504-6

Lab Sample ID: 890-1504-7

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH02A Date Collected: 10/28/21 11:40

Date Received: 10/29/21 13:00

	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			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 07:03	СН	XEN MID
Client Samp	le ID: BH03							Lab Sam	ple ID: 8	390-1504

Client Sample ID: BH03 Date Collected: 10/28/21 11:59

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 03:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 07:10	CH	XEN MID

Client Sample ID: BH03A

Date Collected: 10/28/21 12:27 Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 03:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 07:18	СН	XEN MID

Client Sample ID: BH04

Date Collected: 10/28/21 13:10 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 03:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 14:43	AJ	XEN MID

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5

Lab Chronicle

Client: WSP USA Inc. Project/Site: Tucker Draw

Client Sample ID: BH04

Date Collected: 10/28/21 13:10 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11227	11/02/21 11:52	СН	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 07:26	СН	XEN MID

Client Sample ID: BH04A

Date Collected: 10/28/21 13:30 Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 04:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 01:38	СН	XEN MID

Client Sample ID: BH05 Date Collected: 10/28/21 14:10

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 04:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11234	11/02/21 12:06	СН	XEN MID
Soluble	Analysis	300.0		1			11450	11/09/21 01:46	CH	XEN MID

Client Sample ID: BH05A Date Collected: 10/28/21 14:25

Date Received: 10/29/21 13:00

Lab Sample ID: 890-1504-10

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			4.97 g	5 mL	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 04:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11260	11/02/21 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11319	11/03/21 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11235	11/02/21 12:18	СН	XEN MID
Soluble	Analysis	300.0		1			11380	11/06/21 22:51	СН	XEN MID

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Matrix: Solid

Matrix: Solid

Matrix: Solid

9

Job ID: 890-1504-1 SDG: 31403360.009

Lab Sample ID: 890-1504-7

Lab Sample ID: 890-1504-8

Lab Sample ID: 890-1504-9

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Initial

Amount

4.99 g

5 mL

10.02 g

5.01 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

11122

10983

11149

11344

11249

11321

11235

11380

Number

Dil

1

1

1

1

1

Factor

Run

Client Sample ID: BH06

Date Collected: 10/28/21 14:50 Date Received: 10/29/21 13:00

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 890-1504-1 SDG: 31403360.009

Lab Sample ID: 890-1504-11

Analyst

KL

MR

AJ

AJ

DM

AJ

СН

СН

Prepared

or Analyzed

11/01/21 12:44

11/02/21 06:43

11/03/21 12:38

11/03/21 08:46

11/02/21 14:31

11/04/21 03:57

11/02/21 12:18

11/06/21 23:13

Matrix: Solid

Lab

XEN MID

Matrix: Solid

Lab Sample ID: 890-1504-12 Matrix: Solid

Lab Sample ID: 890-1504-13

Lab Sample ID: 890-1504-14

Date Collected: 10/28/21 15:20 Date Received: 10/29/21 13:00

Client Sample ID: BH06A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 07:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 04:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11235	11/02/21 12:18	СН	XEN MID
Soluble	Analysis	300.0		1			11380	11/06/21 23:21	CH	XEN MID

Client Sample ID: BH07

Date Collected: 10/28/21 15:45

Date Received: 10/29/21 13:00

	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	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 07:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11235	11/02/21 12:18	СН	XEN MID
Soluble	Analysis	300.0		1			11380	11/06/21 23:28	СН	XEN MID

Client Sample ID: BH07A Date Collected: 10/28/21 15:57 Date Received: 10/29/21 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11122	11/01/21 12:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10983	11/02/21 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID

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Matrix: Solid

Job ID: 890-1504-1 SDG: 31403360.009

Matrix: Solid

Lab Sample ID: 890-1504-14

Client Sample ID: BH07A Date Collected: 10/28/21 15:57

Client: WSP USA Inc.

Project/Site: Tucker Draw

Date Received: 10/29/21 13:00

	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			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11249	11/02/21 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/04/21 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11235	11/02/21 12:18	СН	XEN MID
Soluble	Analysis	300.0		1			11380	11/06/21 23:35	СН	XEN MID

Laboratory References:

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

Page 99 of 108

10

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Tucker Draw Job ID: 890-1504-1 SDG: 31403360.009

Laboratory: Eurofins Xenco, Midland

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

thority	F	Program	Identification Number	Expiration Date
xas	N	NELAP	T104704400-21-22	06-30-22
the agency does not o	•	but the laboratory is not certifi Matrix	ed by the governing authority. This list ma	ay include analytes for
		IVICUIA		
Analysis Method		Solid		
Analysis Method 8015 NM Total BTEX		Solid	Total TPH Total BTEX	

Method Summary

Client: WSP USA Inc. Project/Site: Tucker Draw Job ID: 890-1504-1 SDG: 31403360.009

Nethod	Method Description	Protocol	Laboratory
3021B	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
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Tucker Draw

Job ID: 890-1504-1
SDG: 31403360.009

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-1504-1	BH01	Solid	10/28/21 09:55	10/29/21 13:00	1
390-1504-2	BH01A	Solid	10/28/21 10:30	10/29/21 13:00	5
390-1504-3	BH02	Solid	10/28/21 11:10	10/29/21 13:00	1
390-1504-4	BH02A	Solid	10/28/21 11:40	10/29/21 13:00	5
390-1504-5	BH03	Solid	10/28/21 11:59	10/29/21 13:00	1
390-1504-6	BH03A	Solid	10/28/21 12:27	10/29/21 13:00	5
390-1504-7	BH04	Solid	10/28/21 13:10	10/29/21 13:00	2
390-1504-8	BH04A	Solid	10/28/21 13:30	10/29/21 13:00	5
390-1504-9	BH05	Solid	10/28/21 14:10	10/29/21 13:00	3
390-1504-10	BH05A	Solid	10/28/21 14:25	10/29/21 13:00	5
390-1504-11	BH06	Solid	10/28/21 14:50	10/29/21 13:00	1
390-1504-12	BH06A	Solid	10/28/21 15:20	10/29/21 13:00	5
390-1504-13	BH07	Solid	10/28/21 15:45	10/29/21 13:00	3
390-1504-14	BH07A	Solid	10/28/21 15:57	10/29/21 13:00	5

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			21 130	.20	01		be Gid	γ)	l	M. M
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ime	Date/Time		/: (Signature)	Received by:	ature)	ed by: (Signature)	Relinquished by:
	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.		 Xenco, its affili ses incurred by o, but not analya 	company to is or expens led to Xenco	e order from client ibility for any losse ich sample submit	tes a valid purchas, sume any respons charge of \$5 for ea	samples constitut is and shall not as each project and a	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcor 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 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	of this documen will be liable on mum charge of \$	Notice: Signature of service. Xenco of Xenco. A mini
Na Sri II Sniù Vi Zn 1631 / 245.1 / 7470 / 7471 . N g	Ag SiO2		Ba Be B Ba Be Cd	Sb As	Texas 11 Al 3010: 8RCRA	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA	8R(alyzed T	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) and	Total 20 Circle N
Discre			×××	×	5 <u>-</u> 5	14:25	10/28/2021	s S	BH05A	
Discrete			×	×	3' X	14:10	10/28/2021	S	BH05	
Discrete			××	×	5' X	13:30	10/28/2021	s	BH04A	
Discrete			× ×	×	2' X	13:10	10/28/2021		BH04	
Discrete				×	קי X	12:27	10/28/2021	S	BH03A	
Discrete			× ×	×	1' X	11:59	10/28/2021		BH03	
Discrete			-	×	5 <u>.</u> X	11:40	10/28/2021	S	BH02A	
Discrete			X X	×	1' X	11:10	10/28/2021	S	BH02	
Discrete			X X	×	5' X	10:30	10/28/2021	s	BH01A	
Discrete				×	1' X	9:55	10/28/2021	s	BH01	
Sample Comments			BTEX (I Chlorid	TPH (EI	Depth	Time Sampled	Date Sampled	on Matrix	Sample Identification	Samp
lab, if received by 4: supm				PA 80	er of	Total Containers:	Total	Yes NO NIA	ody Seals:	Sample Custody Seals:
TAT starts the day received by the		890-1504 Chain of Custody		015)	02		Correct	No	dy Seals:	Cooler Custody Seals:
					ntai	ECO-WA	IN	Yes No	ict:	Received Intact:
)		(ners	Thermometer ID	(1h	2.4/2.2	(°C):	Temperature (°C):
					res No	Wet Ice:	Kes No	Temp Blank:	RECEIPT	SAMPLE RECEIPT
	-	-			ι. Φ	Due Date	ĕ	Elliot Lee	me:	Sampler's Name:
						Rush:				P.O. Number:
Incident # NAPP2124237477	Inci				×	Routine).009	31403360.009	Эег.	Project Number:
Work Order Notes		ANALYSIS REQUEST			Turn Around	Turn	haw	Tucker Draw		Project Name:
Other	Deliverables: EDD ADaP1		3yers@wsp.c	m, Anna.E	Email: Elliot.Lee@wsp.com, Anna.Byers@wsp.com	Email: Elli		281-702-2329	281-7	Phone:
	Reporting:Level IIevel IIIFT/UST		Carlsbad, NM, 88220	Carlsba	City, State ZIP:	City		Midland, TX 79705		City, State ZIP:
]			5315 Buena Vista Dr.	5315 Bu	Address:	Adu		3300 North A Street	3300	Address:
CRC Diperfund	Program: UST/PST CRP Crownfields	Pro	nergy	WPX Energy	Company Name:	Co		USA	me: WSP USA	Company Name:
nents	Work Order Comments		ey	Jim Raley	Bill to: (if different)	Bill		Joseph Hernandez		Project Manager:
Page of A	www.xenco.com	San Antonio,TX (210) 509-3334 3 Lubbock,TX (806)794-1296 (770-449-8800) Tampa,FL (813-620-2000)	14) 902-0300 ; X (915)585-344 00) Atlanta,GA)allas,TX (2 EL Paso,T) 80-355-090	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800)	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800	Hobbs, I		LABOR	
	Work Order No:	stody	Chain of Custody	hain	0					

PM 10 50



Page 102 of 108

	by C	Reli	Notice: Si of service of Xenco.	V2021 Circle N		:52 P	M						Samp	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:	Page 1	03 of
		hed by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcon 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 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	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed					BH07A	BH07	BH06A	BH06	Sample Identification	ody Seals: Yes	dy Seals: Yes		(°C):	RECEIPT	me:		ber:		281-702-2329	P: Midland, TX 79705	3300 North A Street	me: WSP USA	ger: Joseph Hernandez	LABORAT)
	()/w	5	relinquishment of the cost of sample will be applied to c	200.8 / 6020: Metal(s) to be an:					S	S	S	s	Matrix	NO N/A	No N/A	Yes No		Temp Blank:	Elliot Lee		31403360.009	Tucker Draw	329	X 79705	h A Street		rnandez		
	CTARTO	Received by	samples constitutes and shall not as and shall not as a constructed and a second secon	alyzed T					10/28/2021	10/28/2021	10/28/2021	10/28/2021	Date Sampled	Total	Correc	$\left \right $	Th	Yes No	Ō		600	aw.						Hobbs,	
		Received by: (Signature)	tes a valid purcha ssume any respor i charge of \$5 for	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA				_	15:57	15:45	15:20	14:50	Time Sampled	Total Containers:	Correction Factor:	150	Thermometer ID	Wet Ice:	Due Date:	Rush:	Routine	Turn	Email: El	C	A	0	B	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	
	21		ise order from clinsibility for any lo each sample sub	/ Texas 11 6010: 8RCF					വ്	ų	ਯੁ	<u>-</u>	Depth					Yes No	te:			Turn Around	Email: Elliot.Lee@wsp.com, Anna.Byers@wsp.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)	
	12.62.0	Da	ent compa Isses or e mitted to :	A Sb			$\left - \right $		× ×	××	××		Numb TPH (E	_	_		iner	5					com, An	Car			Jim	Dallas,T)) EL Pat (480-355	Cha
	-21 12	Date/Time	any to Xer xpenses i Xenco, bu	As Ba As Ba	╟┼┼	-			×	×	×		BTEX (_						_		ina.Byer	Isbad, N	5 Buena	WPX Energy	Jim Raley	"X (214) (so,TX (91 5-0900) /	in o
	1300		nco, its aff ncurred by It not anali	Ba Be B Cd Ba Be Cd C					×	×	×	×	Chloric	de (E	PA 3	00.0))						s@wsp.	Carlsbad, NM, 88220	5315 Buena Vista Dr	V		902-0300 5)585-34 Atlanta,G/	fCL
4	2	Relir	iliates and / the clien yzed. Thes	B Cd Ca Cd Cr Co			$\left \right $																com	0	.7			San Anto 43 Lubbo 4 (770-44)	Chain of Custody
		nquishe		o Cu Pb		+					-											ANAL						- <u> </u>	д
		d by: (S	actors. It osses are vill be enfo	o Cu Fe Mn M		+	╞┼	-			-	-										YSIS R						(210) 509-3334 (806)794-1296) Tampa,FL (81:	
		Relinquished by: (Signature)	assigns s due to cirr prced unle	e Pb Moni																		LYSIS REQUEST						(210) 509-3334 306)794-1296 Tampa,FL (813-620-2000)	
_		e)	tandard t cumstance iss previou	ò Cu Fe Pb Mg Mn Mo N Pb Mn Mo Ni Se Ag Tl U																		T	Delivera	Reportir	State	Progran		0-2000)	
		R	ntractors. It assigns standard terms and conditions Nosses are due to circumstances beyond the control will be enforced unless previously negotiated.	H Mo U N			+	-		-	-	-											Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST			
		eceived	the contr iated.	ж Se		-+-	$\left \right $	+		-		$\left \right $							_				ß		ect:		5	WWW	Wor
		Received by: (Signature)	<u> </u>	Ag SiO2												_	_	Τ	_					evel III			Jork Or	www.xenco.com	Work Order No:
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		Date/Time		Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 :					Discrete	Discrete	rete	rete	Sample Comments	3d by 4:30	TAT starts the day recevied by the						Incident # NAPP2124237477	Work Order Notes		levei IV		∰perfund		of I	
		ne		- Hg									Its	m	d by the						37477	Š]			دو	

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Chain of Custody Record



Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199			Chain of Custody Record	ouy R	e C																			Environr America	rica	Environment lesting America	guitse	
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Jessica	ler J	essic	8						Can	Carrier Tracking No(s)	acking	No(s	-			<u>8</u> 8	COC No 890-488 1	-						1
I	Phone:			E-Mail	s ka			"nfir					Stat	State of Origin	ngin					Page		5						
Company Funding Xenco					Accre	ditatio	Accreditations Required (See note):	quire	d (Se	note	Ÿ		Ī		Ì					# dor	Job #:					1	1	
Eurofittis Aetrico Address	7				NELAP - Texas	P-	Tex:	8												89	890-1504-1	1						
1211 W Florida Ave	Due Date Requested 11/4/2021	ā.					1	i		Analys	lvsis	RP	Requested	eter	-					Pre	Preservation Codes	tion (öde	″				
City Midland	TAT Requested (days)	ys)·				ntabati				-					-1'		-	-	_		HCL NaOH			ZA	Hexane None			
State, Zip. TX 79701					griftense	<u> Spranki sili</u> n															Zn Acetate Nitric Acid NaHSO4	icid			AsNaO2 Na2O4S Na2SO3			
Phone 432-704-5440(Tel)	PO #					<u>#3344</u> 8													·		MeOH Amchlor	ч Ч	 –	SR	Na2S2O3 H2SO4	ü		
Email	WO #.				2002212000	an Batta Att				·····										- <u> </u>	Ascorbic Acid Ice DI Water	ar Aci			TSP Dod Acetone MCAA	TSP Dodecahydrate Acetone MCAA	drate	
Project Name Tucker Draw	Project # 88000203				<i>e w 900</i> - 00	hundhistid			=^ 										ainen	۲ א	EDTA EDA				pH 4-5 other (specify)	ecify)		
Site.	SSOW#:				WINDERS" FYRIAT														of coni	Other-	er.							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=orab)	Matrix (W=water S=solid O=waste/oll, BT=Tissue A=AIr)	Field Filtered Perform MS/N	BOD_ORGFM_28	8015MOD_NM/8		3021B/5035FP_	015MOD_Calc	fotal_BTEX_GC								otal Number		0							1
	V	X	6 1		2000 - 1	de de la composition br>Composition de la composition de la comp	in the second		ante de la comunitación de la co	-								<u>ندمين</u>	X	Ť	k		V					
BH01 (890-1504-1)	10/28/21	09 55 Mountain		Solid		×	×		×	×	<u>×</u>									<u> an </u>		and the second se		-	and the second se			
BH01A (890-1504-2)	10/28/21	10 30 Mountain		Solid		×		×	×	×	×																	1
BH02 (890-1504-3)	10/28/21	11 10 Mountain		Solid		×		×	×	×	×									<u>in chraid</u>								
BH02A (890-1504-4)	10/28/21	11 40 Mountain		Solid		×		×	×	×	×											ł						
BH03 (890-1504-5)	10/28/21	11 59 Mountain		Solid		×		×	×	×	×																	1
BH03A (890-1504-6)	10/28/21	12 27 Mountain		Solid		×		×	$\frac{\times}{}$	×	<u>×</u>							-+	-									
BH04 (890-1504-7)	10/28/21	13 10 Mountain		Solid		×		×	×	×	<u>×</u>				-+	-+			ال يحس									
BH04A (890-1504-8)	10/28/21	13 30 Mountain		Solid		×	Ŷ		×	×	<u>×</u>		{				{		ا بخبر				{					1
BH05 (890-1504-9)	10/28/21	14 10 Mountain		Solid		×		×	×	×	×																	1
Vote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	laces the ownership o eing analyzed the sa signed Chain of Cus	of method ana mples must be tody attesting t	lyte & accredita shipped back to said complica	tion compliance o the Eurofins : Ince to Eurofina	e upor Xenco		subco labora	ntract atory c	labor or othe	atorie: ar inst	s. This	samp s will b	e prov	ided	is for	shang	d und	er cha	ain-of-	-custc	us shou	he lab	orator broug	y doe: tht to f	s not c Eurofir	urrentt is Xend	So LLC	1
Possible Hazard Identification					S	Ja l	ē D	ispo	sal (Afe	e ma	00	asse	ssec	i i s	amp	les a	le	etair	led	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	tha	11	nont	Ξ			
Unconfirmed	Drimony Dolinoro				╞		¹ Return To Client	In 1	00	ent			Disposal By Lab	osal	By L	ab			Arc	Archive For	For			Ņ	Months			
		· · · · · · · · · · · · · · · · · · ·			;			•	i	;	1																	

linquished by

62.01

Date/Time Date/Time.

Company Company

A B

Time.

Method of Shipmen Date Date/ Date/Time

Special Instructions/QC Requirements

Date

telinquished by elinquished by

Date/Time

Company

Received by:

ved

Cooler Temperature(s) °C and Other Remarks

5 0 01100

Ver: 06/08/2021

Custody Seals Intact ∆ Yes ∆ No

Custody Seal No

Empty Kit Relinquished by

Deliverable Requested 1 II III IV Other (specify)

Primary Deliverable Rank 2

Company Company

Company

1089 N Canal St.

Received by OCD: 11/24/2021 12:18:52 PM

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Eurofins Xenco, Carlsbad	0	thain	Chain of Custody Record	tody R	PC	2	<u></u>														🔅 eurofins		nviroi	nmei		stin	2
Phone 575-988-3199 Fax 575-988-3199																						A	America	5			1
Client Information (Sub Contract Lab)	Sampler.			Lab PM Kramer	l₫ >	Jessica	20						်း	Carrier Tracking No(s)	ackin	g No	s)			<u> </u>	COC No 890-488 2				ļ		
Shipping/Receiving	Prione.			E-Mail jessic	E-Mail lessica kramer@eurofinset.com	amer	@eu	rofins	set.co	ă			Ne Sta	State of Origin New Mexico	Drigin	Ū				T T	Page Page 2 of 2						
Eurofins Xenco						Accreditations Required (See note): NELAP - Texas	ns Re Texa	quired S	(See	note):										<u> </u>	Job # 890-1504-1						
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	a							<u>ہ</u> ا	Analysis	vsis		Requested	ste	2						Preservation Codes	les					
City Midland	TAT Requested (days)	/s)·				meterlik				-	-1							_	~ ~ ~ ~			ZZ	Hexane None	ane			
State, Zip TX 79701					in an	dhan ceanna							<u> </u>								E NaHSO4	οτο	AsnaU2 Na2O4S Na2SO3	ŏ 3 4 S 2			
Phone 432-704-5440(Tel)	PO #.					_{ettelio-use} e				·														3203 74			
Email	WO#				10000 2 1 1777	1962-195-195														Sollo-constr	H Ascorbic Acid I Ice			TSP Dodecahydrate Acetone	cahy	drate	
Project Name Tucker Draw	Project #: 88000203				NO	6.5/37255.53														Constaller	K EDTA L EDA			pH 4-5 other (specify)	cify)		
Sie	SSOW#:				20120727 200000	0.000233346				v								······	li ana an	- there describe	Other						
	A 14 - 1	Sample	Sample Type	Matrix (^{W=water} S=solid,	d Filtered orm MS/M	ORGFM_28	- MOD_NM/8	B/5035FP_0	MOD_Calc	_BTEX_GO		•								Number							
Sample Dentification - Client ID (Lab ID)	Sample Date	K	G=grab) Preserva	3=grab) _{BT=Tissue, A=Air}) Preservation Code:	197 4 227 202				80	То				1			<u></u>	-	/ +		Special Instructions/Note	stru	ictio	ns/ħ	lote]
BH05A (890-1504-10)	10/28/21	14 25 Mountain		Solid		×	×	×	×	×						-		- 6		÷Į		a statut a service and	and the second se		1	I	
BH06 (890-1504-11)	10/28/21	14 50 Mountain		Solid	_	×	×	\times	×	×			+		-+				Alex 1								
BH06A (890-1504-12)	10/28/21	15 20 Mountain		Solid		×	×	×	×	×		-+	\rightarrow			+				<u> </u>							
BH07 (890-1504-13)	10/28/21	15 45 Mountain		Solid		×	×	×	×	×						-+											
BH07A (890-1504-14)	10/28/21	15 57 Mountain		Solid		×	×	×	×	×									1.01								
invoid: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	laces the ownership o eing analyzed the san signed Chain of Cust	f method ar nples must t ody attesting	nalyte & accredit be shipped back g to said complic	ation compliand to the Eurofins ance to Eurofir	e upor Xenco Is Xenc	Nout s	aborat	ory or	aborat other	ories <u>.</u> instru	This	samp will b	e shij e prov	ided	is for Any	warde	ed un	der ch	ain-o editati	ion s	stody If the laboratc tatus should be brou	ory da ught t	oes n to Eur	ot cur ofins	rently Xenc	× LL	<u>с</u>
Possible Hazard Identification Unconfirmed					S	Sample Disposal (A	le Disposal (A Return To Clien	spos		n fee	fee may	be	assessed if samples are	sse	B	am	les	∏are	e e	inec	☐ Archive Ear	month)	nth)				
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank		Z		S	Special Instructions/QC	ıl Inst	ructio	ons/C	NC R	Requirements	reme	nts .		ŀ												L
Empty Kit Relinquished by		Date			Time									Me	Method of Shipment:	f Ship	men										
Relinquished by	Date/Time			Company	Γ	Receiv	Veive	X	\geq	A	Z	\leq		${\approx}$	Ĩ	Da	Date/Time	e				C _Q	Company	×			
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1	Date/Time			Company		Re	Received by	by:									Date/Time	ie				ç	Company	<u>`</u>			
Δ Yes Δ No						ç	Cooler Temperature(s)	mpera	ature(s	റ്	and Other Remarks	her R	emari	Ş.													
																											l

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Ver 06/08/2021

14

Job Number: 890-1504-1 SDG Number: 31403360.009

List Source: Eurofins Xenco, Carlsbad

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1504 List Number: 1

Creator: Clifton, Cloe

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

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1504 List Number: 2 Creator: Kramer, Jessica Job Number: 890-1504-1 SDG Number: 31403360.009

List Source: Eurofins Xenco, Midland List Creation: 11/01/21 08:46 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	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	63675
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition None chensley

CONDITIONS

Action 63675

Condition Date 12/22/2021