Received by	OCD: 9/2/	/2022 2:31:5	38 PM	C4		N			ONSE		N	Page 1 of 128
1625 N. French	Dr., Hobbs, N	NM 88240				New Mex	1CO 1 Resources		172			Form C-141 August 8, 2011
811 S. First St., District III	Artesia, NM	88210				vation Div		Submi	t I Conv	to approp	riata Die	trict Office in
1000 Rio Brazos District IV	Road, Aztec	c, NM 87410				St. Franc		RE	CEIVE	ordance v	with 19.	15.29 NMAC.
1220 S. St. Fran	cis Dr., Santa	1 Fe, NM 87505				e, NM 875						
			Rele	ease Notific				ction				<u> </u>
NABI	32/04	1780				<b>OPERA</b>		×	d Initia	l Report	П	Final Report
Name of Co	mpany	WPX Energy		1 246284		Contact	Karolina Blar			<u>in ricport</u>	<u> </u>	
Address 5315 Buena Vista Dr.						No. 970 589 074	13					
Facility Name: RDU 11					Facility Type: Well Pad							
Surface Ow	ner: Feder	ral		Mineral C	wner: I	Federal			API No	. 30- 015	-24307	
				LOCA	TION	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	st Line	County		
<u> </u>	22	26S	30E	660		FSL	1980	FE	L	Eddy		
			L	<b>atitude:</b> 32.030	564 N	Longitude	e: -103.8912511	w				
						OF REL	EASE					
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Tank Battery						11/5/2016				)16 – 9:30		er y
Was Immedia	ate Notice C		V., [			If YES, To		e Michoo	l Drotoho	DIMC	hallu Tu	akar
D. Whan 9 K	and the Dis		Yes [	No 🗌 Not Re	equirea		Heather Patterson				neny ru	
By Whom? K Was a Water							Iour: 11/06/16– 1 olume Impacting					
			Yes 🛛	No		N/A	1 0					
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	* N/A			•					
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*								
The cause o	f this spill	is equipmen	t failure.	A pump air loc	ked cau	sing tank to	overfill, 66 bbl	s of oil w	as recov	ered fror	n a dirt	SPCC
				left the containn		onig tunit to	0.000					
Describe Are	a Affected	and Cleanup /	Action Tal	cen *				<u>.                                </u>		-		
		-										
Vacuum truc	k was dispa a grab samn	tched to the lo	ocation; 60	5 bbls oil were rec the containment	overed f area and	from the dirt	containment. The	impacted	area was	mapped v PH and ch	vith Trin Jorides i	nble. On n accordance
				eaks, Spills, and								
I hereby certi	fy that the i	nformation g	iven above	e is true and comp	lete to tl	he hest of my	knowledge and i	inderstand	that purs	suant to N	MOCD	ules and
regulations a	l operators	are required t	o report a	nd/or file certain r	elease n	otifications a	nd perform corre	ctive action	is for rel	eases whic	ch may e	ndanger
				ce of a C-141 repo investigate and r								
or the environ	nment. In a	ddition, NMC	OCD accept	ptance of a C-141	report d	oes not reliev	e the operator of	responsibi	lity for c	ompliance	with an	y other
federal, state,		ws and/or regu	ulations.				OIL CON	CEDVA	TION	סועוס		
	Kamlina	Blaney								01710		
Signature:		0					Signed B	y MIN	y En	APROX LE		
Printed Name	e: Karolina	Blaney				Approved by	Environmental S	pecialist:				
Title: Enviro	onmental Sr	ecialist				Approval Da	te: 11 21		piration	Date: N	IA	
		na.blaney@wj	oxenergy.	com		Conditions o			<u></u>	Attach	/	
Date: 11/17	/2016		Pho	one: 970-589-0743								
* Attach Addi		ets If Necess			·		····-			1	20	
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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

)

Page 2 of 128

Incident ID	nAB1632647780
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)
Contact mailing address 5315 Buena Vista Dr., Carlsbad, NM	/ 88220

#### **Location of Release Source**

Latitude <u>3</u>2.02224

## Longitude \_\_\_\_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ross Draw Unit 11	Site Type Well Pad
Date Release Discovered 11/5/2016	API# (if applicable) 30-015-24307

Unit Letter	Section	Township	Range	County
0	22	26S	30E	Eddy

Surface Owner: State V Federal Tribal Private (Name: \_

#### ma of Dologo JVA NT - 4

Crude Oil	Volume Released (bbls) 70	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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)
cor	e cause of this spill is equipment failure. A pump air locked causing tai tainment berm; none of the fluids have left the containment. $estimate = \frac{saturated  soil  volume  (ft^2)}{4.21(\frac{ft^2}{bbl  equivalent})} * estimated  soil  por$	

m C-141	2 2:31:38 PM State of New Mexico	Incident ID	nAB1632647780	
e 2	Oil Conservation Division			
5 2	On Conservation Division	District RP		
		Facility ID		
		Application ID		
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part >25 bbls	y consider this a major release?	2	
🛛 Yes 🗌 No				
	notice given to the OCD? By whom? To whom? Wh /, NMOCD Heather Patterson & Michael Brat	•		
If YES, was immediate r	•	cher, BLM Shelly Tucker		

 $\checkmark$  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: Jim Raley	Title: Environmental Professional
Signature:	Date:
<sub>email:</sub> jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
Received by:	Date:

Received by OCD: 9/2/2022 2:31:38 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of 12
Incident ID	nAB1632647780
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?	<b>&gt;105</b> (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 <b>not</b> 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

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Corm C-141 State of New Mexic					Page 5 of
				Incident ID	nAB1632647780
age 4	Oil Conservation Division			District RP	
				Facility ID	
				Application ID	
public health or the failed to adequately addition, OCD acce and/or regulations. Printed Name: Signature:	ators are required to report and/or file certain release not environment. The acceptance of a C-141 report by the C investigate and remediate contamination that pose a through phance of a C-141 report does not relieve the operator of im Raley // Rh/ ey@dvn.com	DCD doe eat to gro responsi Titl : Date:	s not relieve the undwater, surfa bility for compl Environm 9/1/2022	operator of liability sh ce water, human health iance with any other fe ental Professior	ould their operations have or the environment. In deral, state, or local laws
OCD Only					

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Oil Conservation Division

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

Incident ID	nAB1632647780
District RP	
Facility ID	
Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete 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: Jim Raley Title: Environmental Professional Signature: Date: 9/1/2022 email: jim.raley@dvn.com Telephone: 575-689-7597 **OCD Only** Received by: Date: Approved with Attached Conditions of Approval Approved Denied Deferral Approved uttan Hall Date: 10/4/2022 Signature:

The deferral request for nAB1632647780 has been denied. This release has not been fully delineation per 19.15.29.12 NMAC. Vertical delineation submitted was incomplete. The upper 4 feet of the release must be delineated in order to provide an accurate estimate of contamination left in place. Please submit a complete delineation report by 1/6/2023.

Page 5



#### DEFERRAL REQUEST REPORT

Site Location:

Ross Draw Unit 11 Eddy County, New Mexico Incident Number nAB1632647780

September 1, 2022 Ensolum Project No. 03A1987006

Prepared for:

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

Prepared by:

Joyn S. Holy -

Joseph S. Hernandez Senior Geologist

Ashley L. ager

Ashley Ager, MS, PG Program Director, Geologist

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 10333 Harwin Drive, Suite 470 | Houston, TX 77036 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843

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Figure 2: Area of Concern

- Appendix B: Well Record
- Appendix C: Approved Deferral Request (Incident Number NRM2034258716)
- Appendix D: Photographic Log



Ross Draw Unit 11 Deferral Request Report Incident Number nAB1632647780

Page 2

#### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

Ensolum, LLC (Ensolum), on behalf of WPX Permian, LLC (WPX), has prepared this Deferral Request Report (DRR) for a historical release at the Ross Draw Unit 11 (hereinafter referred to as the "Site") in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1 in Appendix A). Based on the information provided on the Corrective Action Form (Form C-141), an air pump failed causing the oil tank to overfill and release approximately 70 barrels (bbls) of oil into the earthen berm containment. Approximately 66 bbls were recovered via vacuum truck. None of the fluids flowed off the location. The release was reported to the New Mexico Oil Conservation Division (NMOCD) and assigned Incident Number nAB1632647780. An updated Form C-141 (current revision August 24, 2018) is provided in this DRR.

WPX respectfully requests NMOCD review a recent Deferral Request (DR) for Incident Number NRM2034258716, authored by WSP USA Inc. (WSP) and approved by NMOCD on January 13, 2022, which overlapped the subject release. Specifically, NMOCD can review the field summary and laboratory analytical data, as it provides delineation information applicable in this DRR. Based on information provided on the C-141, existing data from the previous soil sampling activities, and approved deferral of residual impacts to soil from the overlapping release, WPX respectfully submits this DRR, which summarizes existing data and estimates an additional volume of impacted soil to leave in place.

#### 1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A**.

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE for WPX on December 9, 2020, located approximately 0.45 miles southeast of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 106 feet and 7 inches bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided as **Appendix B**.

The closest surface water or significant watercourse to the Site is a dry wash, located approximately 1,359 feet northeast of the Site. The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland and greater than 1,000 feet to a freshwater well or spring. The Site is not within a 100-year floodplain. This Site is located in a medium potential karst area.

Based on the results of the Site Characterization and recently drilled soil boring, MW-1, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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



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

#### 2.0 DESCRIPTION OF EXISTING DATA

The DR for Incident Number NRM2034258716, authored by WSP, was approved by NMOCD on January 13, 2022 and overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the laboratory analytical data from the DR, as it is applicable to the horizontal and vertical delineation of this historical release.

Based on the summary of the approved DR **(Appendix C)**, the following findings and conclusions regarding historical Incident Number nAB1632647780 are presented:

- The historical release assigned Incident Number nAB1632647780 occurred on November 5, 2016 within the secondary containment berm. The more recent release (Incident Number NRM2034258716) occurred on November 24, 2020 in the same secondary containment and overlapped the historical release footprint. The secondary containment, and therefore release footprint for the historical release, is identified as the Area of Concern in **Figure 2 in Appendix A**.
- WPX addressed the recent release first, excavating soil from the secondary containment and delineating residual impacts near active production equipment.
- Laboratory analytical results of lateral delineation soil samples collected to address impacts associated with the recent release (Incident Number NRM2034258716), specifically samples from BH01, BH02, BH03, and BH04, document lateral delineation for both releases and confirm both releases remained within the secondary containment.
- Vertical delineation of both releases was documented as 1 foot to 1.5 feet bgs in the DR by boreholes BH05 through BH10 advanced within the secondary containment.
- Excavation of impacted soils occurred within the secondary containment where possible. The approved DR estimated 102 cubic yards of residual impacted soil would be left in place due to proximity to active production equipment and deferred until final abandonment or major reconstruction.
- Based on the existing soil laboratory analytical results and an assumption that the historical release footprint extended across the entirety of the secondary containment, an additional 182 cubic yards of residual impacted soil is estimated to remain in place around active production equipment.
- Facility equipment has not changed since approval of the DR and no other releases have occurred within the secondary containment. Photographic documentation is provided in **Appendix D**.

#### 3.0 DEFERRAL REQUEST

WPX believes the data described above meet the horizontal and vertical delineation requirements set forth in NMAC 19.15.29.11. Excavation in addition to what was removed for Incident Number NRM2034258716 is still restricted by aboveground storage tanks and pipelines, or active

ENSOLUM

Deferral Request Report Incident Number nAB1632647780

production equipment that would require major facility deconstruction to work around. As such, WPX respectfully requests deferral of a total of 284 cubic yards of impacted soil for historical Incident Number nAB1632647780. Based on the findings and conclusions of an NMOCD approved deferral for Incident Number NRM2034258716 and applicability of existing data to historical Incident Number nAB1632647780, No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD using the previously collected data.





# APPENDIX A

# Figures

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## APPENDIX B

Well Record

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		HR	1						MONITORING W	ELL COMPLETION	N DIAGRAM
				IAN	C F		Boring/Wel		W-1	Location: Ross Draw U	nit #55
			ונוו		NS		Date:			Client:	
Drilling Me									0/2020	WPX End Drilled By:	ergy
Ā	Air Rotar	у		No	one		Logged By:		nn, PG	Talon L	PE
Gravel Pack	k Type: 0/20 Sar	d	Gravel Pac	ck Depth Into	erval: ags		Seal Type:	lone	Seal Depth Interval: None	Latitude: 32.0161	65
Casing Typ		Diameter:		Depth Inter	0			al Depth (ft. BC		Longitude:	05
PVC		2-inch		0-101'7 Diameter:		( ) I			5'7"	-103.863 Depth to Water (ft. BTOC):	
Screen Type PVC	e:	Slot: 0.010-in	nch		101'7"	Interval: - 106'7"	Well Iotal	Depth (ft. BGS 106	): 5'7"	>106' 7"	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID		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	N	N	NM	SP	NS		ly graded fine sand minor medium sand	
100 106'7"	NM	М	D	N	Ν	NM	SC	NS		d with moderate silt TD 106'7"	-



# APPENDIX C Approved Deferral Request (Incident Number NRM2034258716)

Received by OCD: 9/2/2022 2:31:38 PMI Form C-141 State of New Mexico

Oil Conservation Division

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

	Incident ID	NRM2034258716
	District RP	
	Facility ID	
Γ	Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete 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. Title: Environmental Professional Printed Name: Jim Raley Date: 08/31/2021 Signature: Telephone: 575-689-7597 email: jim.raley@dvn.com **OCD Only** Date: 1/13/2022 Robert Hamlet Received by: Approved Approved with Attached Conditions of Approval Denied X Deferral Approved Robert Hamlet Date: 1/13/2022 Signature:

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

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Incident ID	NRM2034258716
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: james.raley@wpxenergy.com	Incident # (assigned by OCD)	
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220		

#### **Location of Release Source**

Latitude 32.0224991\_

Longitude -103.8669281\_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name ROSS DRAW UNIT #011	Site Type: Oil Well
Date Release Discovered: November 24 <sup>th</sup> , 2020	API# (if applicable) 30-015-24307

Unit Letter	Section	Township	Range	County
0	22	26S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name:

#### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) 7	Volume Recovered (bbls) 6
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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)
Cause of Release: Tank	e overflow allowed 7bbls of crude oil to be released to e	earthen secondary containment. 6 bbls was recovered.

Page	2
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#### Oil Conservation Division

Incident ID	NRM2034258716
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
5	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
If YES, was immediate no	otice 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:11/30/2020 Telephone:575-689-7597		
OCD Only			
Received by: Ramona Marcus	Date: <u>12/7/2020</u>		

Received by OCD: 9/2/2022 2:31:38 PMI Form C-141 State of New Mexico

Oil Conservation Division

Application ID

#### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> 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
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 9/2/	2022 2:31:38 PM State of New Mexico	)		Page 22 of 1
			Incident ID	NRM2034258716
age 4	Oil Conservation Divisi	1011	District RP	
			Facility ID	
			Application ID	
public health or the env failed to adequately inv		the OCD does not relieve th a threat to groundwater, surf tor of responsibility for comp	ne operator of liability sh face water, human health pliance with any other fe ental Professiona 1	ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:				

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Oil Conservation Division

**<u>Remediation Plan Checklist</u>**: Each of the following items must be included in the plan.

Incident ID	NRM2034258716
District RP	
Facility ID	
Application ID	

#### **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete 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. \_\_\_\_\_<sub>Title:</sub> Environmental Professional Printed Name: Jim Raley Date: 08/31/2021 Signature: email: jim.raley@dvn.com Telephone: 575-689-7597 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

WSP USA

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

August 31, 2021

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

#### RE: Addendum Deferral Request Ross Draw Unit #011 Incident Number NRM2034258716 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy Permian, LLC. (WPX), presents the following Addendum to the original Deferral Request submitted on February 19, 2021. This Addendum provides clarification to the vertical definition of the release that was completed at the Ross Draw Unit #011 (Site) in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The New Mexico Oil Conservation Division (NMOCD) denied the original Deferral Request based on concern vertical definition of the release extent to the NMOCD Table 1 Closure Criteria (Closure Criteria) was not achieved. Based on the additional clarification below, WPX is submitting this Addendum Deferral Request in an effort to forbear from disturbing impacted soil within a tank battery earthen containment that may contribute to compromising the safety of field personnel during active operations or the structural integrity of existing above ground equipment and utilities.

#### **RELEASE BACKGROUND**

On November 24, 2020, a tank overflowed and released approximately 7 barrels (bbls) of crude oil into the tank battery earthen containment. Vacuum trucks were immediately dispatched and recovered approximately 6 bbls of crude oil. WPX reported the release to NMOCD and submitted a Corrective Action Form C-141 (Form C -141) on November 30, 2020 that was subsequently assigned Incident Number NRM2034258716.

The Deferral Request detailed site characterization 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). Based on the results of the Site Characterization, the following Closure Criteria were applied:

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

wsp

District II Page 2

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

#### ADDENDUM RESPONSE

The following section of this report describes the interpretation of previous delineation soil sampling activities and laboratory analytical data. All previous remediation activities, soil sample analytical results, and the detailed site characterization can be referenced in the original report.

On September 25, 2020, NMOCD denied the Closure Request for Incident Number NRM2012229165 for the following reason:

• Samples/ Sample areas for FS02, FS04, FS05, FS06, FS07 need to be vertically delineated to consider these areas for deferral.

The vertical extent of remaining TPH impacts associated with the subject site is defined by boreholes BH05 through BH10 to approximately 1 to 1.5 feet bgs within the excavation/release area. Based on laboratory analytical data, vertical impacts do not extend beyond 1.5 feet bgs. The boreholes were collected within the 200 square foot grid of the floor sampling sample areas. Vertical extent for the sampling area for FS02 is defined by BH05, FS04 by BH10, FS05 by BH08, and FS07 by BH09. BH05 was collected at minimum 10 feet from the sampling area for FS06 but is defined vertically and laterally.

Borehole samples BH01 through BH04 were collected in every cardinal direction outside the tank battery containment to define the horizontal extent of impacts. The summary table and analytical reports for the lateral delineation samples may be found in the original Deferral Request.

Failing Soil Sample Location	Depth (ft bgs)	TPH-GRO & TPH- DRO / TPH Concentrations (mg/kg)	Corresponding Vertical Delineation Sample ID	Depth (ft bgs)	Concentration (mg/kg)
FS02	0.3 – 0.5	2,910 / 2,910	BH05	0.75 – 1	<50.0 / <50.0

#### VERTICAL DELINEATION TABLE

# **NSD**

District II Page 3

FS04	0.5 – 0.75	3,620 / 3,620	BH10	0.75 – 1	83.4 / 83.4
FS05	0.3 – 0.5	8,510 / 8,510	BH08	1 – 1.5	<50.1 / <50.1
FS06	0.5	20,800 / 20,800	BH05	0.75 – 1	<50.0 / <50.0
FS07	0.5 – 1	6,880 / 6,880	BH09	1 – 1.5	88.3 / 88.3

#### Notes:

ft – feet bgs – below ground surface mg/kg – milligrams per kilogram TPH – Total Petroleum Hydrocarbons GRO – Gasoline Range Organics DRO – Diesel Range Organics < - Less than detectible limit

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 1.

#### **DEFERRAL REQUEST**

Based on the data collected from the final delineation soil samples, WPX requests to defer the remaining residual impacts within the tank battery earthen containment:

• Impacts have been removed to the maximum extent practicable (MEP) to limit future vertical migration and human exposure upon future Site visits. The remaining residual impacts within the subject area release lay in close proximity to and beneath above ground storage tanks and above ground utilities. The approximate area of residual impacts within the release area is presented on Figure 2. Depth to groundwater is estimated to be greater than 100 feet bgs based on the nearest well data and regional depth to water determination, and no other sensitive receptors are within the applicable

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District II Page 4

ranges. The chloride concentrations meet Table 1 Closure Criteria applicable for a depth to water of greater than 100 feet bgs for all soil samples.

 Removal of impacted soil is not a practical means of remediation due to the location of the release and surrounding production equipment and pipelines. Safety restrictions prevent the ability to remove all impacted soil associated with TPH-GRO/TPH-DRO and TPH exceedances. Based on the data indicating residual impacts are fully delineated, supportive evidence that any remaining TPH concentrations are not harmful to public health and environment and highly unlikely to impact groundwater based on the shallow nature of identified impacts. WPX requests to defer approximately 102 cubic yards of impacted soil associated with Incident Number NRM2034258716 in an effort to forbear from disturbing impacted soil within the earthen tank battery containment, which may also compromise the safety of field personnel during active operations.

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

Sincerely,

WSP USA

S. Holy

Joseph S. Hernandez Associate Consultant, Geologist

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

cc: James Raley, Devon United States Bureau of Land Management NMOCD

Attachments:

Figure 1	Site Receptor Map
Figure 2	Estimated Deferral Area
Table 1	Soil Analytical Results
Attachment 1	Laboratory Analytical Reports

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# FIGURES



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Page 15			Chloride (mg/kg)	20,000		1,970	3,520	2,110	42.7	6,640	6,810	6,610	810	2,680	852	4,730	2,080	2,110	42.7
			TPH (mg/kg)	2,500		<50.0	2,910	<50.0	<49.8	51.2	3,620	83.4	52.8	8,510	2,830	<50.1	20,800	<50.0	<49.8
			Total GRO+DRO (mg/kg)	1,000		<50.0	2,910	<50.0	<49.8	51.2	3,620	83.4	52.8	8,510	2,830	<50.1	20,800	<50.0	<49.8
			TPH-ORO (mg/kg)	NE		<50.0	<250	<50.0	<49.8	<49.8	<249	<50.0	<49.8	<499	<251	<50.1	<1,000	<50.0	<49.8
		16	TPH-DRO (mg/kg)	NE		<50.0	2,910	<50.0	<49.8	51.2	3,340	83.4	52.8	7,470	2,830	<50.1	19,700	<50.0	<49.8
	Table 1	Soil Analytical Results Ross Draw Unit #011 Incident Number NRM2034258716 Eddy County, New Mexico WPX Energy Permian, LLC.	TPH-GRO (mg/kg)	NE		<50.0	<250	<50.0	<49.8	<49.8	278	<50.0	<49.8	1,040	<251	<50.1	1,130	<50.0	<49.8
	Ta	Soil Analy Ross Dra Incident Numbe Eddy Count WPX Energy	BTEX (mg/kg)	50		0.888	8.83	<0.00204	<0.00202	<0.00199	<0.00200	<0.00200	<0.00200	<0.0196	<0.00200	<0.00201	0.761	<0.00204	<0.00202
			Benzene (mg/kg)	10		<0.0200	<0.0233	<0.00204	<0.00202	<0.00199	<0.00200	<0.00200	<0.00200	<0.0196	<0.00200	<0.00201	<0.0196	<0.00204	<0.00202
			Sample Depth (ft bgs)	AC 19.15.29)		0.5	0.3 - 0.5	0.75 - 1	1 - 1.5	0.5 - 0.75	0.5 - 0.75	0.75 - 1	1 - 1.5	0.3 - 0.5	0.75 - 1	1 - 1.5	0.5	0.75 - 1	1 - 1.5
021 2:43:17 PM			Sample Date	sure Criteria (NM/		12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020	12/18/2020
d by OCD: 8/31/2(		ing: 3/16/2023 2	Sample ID	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)	Soil Samples	FS01	FS02	BH05	BH05	FS03	FS04	BH10	BH10	FS05	BH08	BH08	FS06	BH05	BH05
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021 2:43:17 PM	Sample Date	sure Criteria (NM <sup>1</sup>
Received by OCD: 8/31/2021 2:43:17 PM Released to Imaging: 3/16/2023	Sample ID	NMOCD Table 1 Closure Criteria (NMA)
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### Incident Number NRM2034258716 Eddy County, New Mexico WPX Energy Permian, LLC. Soil Analytical Results Ross Draw Unit #011

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)	sure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
FS07	12/18/2020	0.5 - 1	<0.0175	<0.0175	522	6,360	<500	6,880	6,880	1,410
BH09	12/18/2020	0.75 - 1	<0.00200	< 0.00200	706	4,290	<251	5,000	5,000	1,300
BH09	12/18/2020	1 - 1.5	<0.00202	<0.00202	<50.3	88.3	<50.3	88.3	88.3	2,320

Notes:

BTEX - benzene, toluene, ethylbenzene, and total xylenes TPH - total petroleum hydrocarbons mg/kg - milligrams per kilograms GRO - gasoline range organics DRO - diesel range organics ft - feet/foot

NMOCD - New Mexico Oil Conservation Division ORO - oil range organics

NMAC - New Mexico Administrative Code

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

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 Received by OCD: 9/2/2022 2:31:38 PM1

# **Certificate of Analysis Summary 681867** WSP USA, Dallas, TX

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	TE03 1020011			Froject Na	Froject Name: KDU 11	- - - -		
Project 1d:	1 EU3482UU44					Date Received in Lab:		
Contact:	Joseph Hernandez					Repoi	<b>Report Date:</b> 01.21.2021 08:50	
<b>Project Location:</b>	Eddy County, New Mexico	ico				<b>Project Manager:</b>	anager: Jessica Kramer	
		Lab Id:	681867-001	681867-002	681867-003	681867-004	681867-005	681867-006
	ie Dannastad	Field Id:	FS01	FS02	FS03	FS04	FS05	FS06
	naicanhau c	Depth:	0.5- ft	0.3-0.5 ft	0.5-0.75 ft	0.3-0.75 ft	0.5-0.5 ft	0.5- ft
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampled:	12.18.2020 09:00	12.18.2020 09:02	12.18.2020 09:05	12.18.2020 09:07	12.18.2020 09:10	12.18.2020 09:12
BTEX	X by EPA 8021B	Extracted:	12.18.2020 17:04	12.18.2020 17:26	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04
		Analyzed:	12.18.2020 23:38	12.19.2020 23:17	12.19.2020 00:23	12.19.2020 00:45	12.19.2020 01:08	12.19.2020 01:31
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene			<0.0200 0.0200	<0.0233 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	<0.0196 0.0196
Toluene			<0.0200 0.0200	0.774 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	<0.0196 0.0196
Ethylbenzene			0.224 0.0200	1.55 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	<0.0196 0.0196
m,p-Xylenes			0.359 0.0400	4.43 0.0465	<0.00398 0.00398	<0.00399 0.00399	<0.0392 0.0392	<0.0392 0.0392
o-Xylene			0.305 0.0200	2.08 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	0.761 0.0196
Total Xylenes			0.664 0.0200	6.51 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	0.761 0.0196
Total BTEX			0.888 0.0200	8.83 0.0233	<0.00199 0.00199	<0.00200 0.00200	<0.0196 0.0196	0.761 0.0196
Inorganic	Inorganic Anions by EPA 300	Extracted:	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11
		Analyzed:	12.21.2020 16:03	12.21.2020 16:21	12.21.2020 16:27	12.21.2020 16:33	12.21.2020 16:39	12.21.2020 16:57
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride			1970 50.3	3520 50.1	6640 50.1	6810 49.9	2680 49.9	2080 49.6
TPH	TPH by SW8015 Mod	Extracted:	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00
		Analyzed:	12.22.2020 22:09	12.22.2020 22:30	12.22.2020 22:51	12.22.2020 23:11	12.22.2020 23:32	12.22.2020 23:53
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hy	Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<250 250	<49.8 49.8	278 249	1040 499	1130 1000
Diesel Range Organics (DRO)	thics (DRO)		<50.0 50.0	2910 250	51.2 49.8	3340 249	7470 499	19700 1000
Motor Oil Range F.	Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<250 250	<49.8 49.8	<249 249	<499 499	<1000 1000

1000 1000 1000 1000

20800

499

8510

249

3620

49.8

51.2

250

2910

50.0

<50.0

Total TPH

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Page 1 of 26

Final 1.001

Xenco					Project Name: RDU 11		
Project Id: TE0348200	44 .				Date Received in Lab:	:51	
Contact: Joseph Hernandez Project Location: Eddy County, New M	Joseph Hernandez Eddy County, New Mexico				Report Date: <sup>0</sup> Project Manager: <sup>J</sup>	01.21.2021 08:50 Jessica Kramer	D: 9/2
		Lab Id:	681867-007	07			
Aucheric December		Field Id:	FS07				
values and a section of the section		Depth:	0.5-1 ft				
		Matrix:	SOIL				
		Sampled:	12.18.2020 09:15	9:15			
BTEX by EPA 8021		Extracted:	12.18.2020 17:04	17:04			
		Analyzed:	12.19.2020 02:51	12:51			
		Units/RL:	mg/kg	RL			
Benzene			<0.0175	0.0175			
Toluene			<0.0175	0.0175			
Ethylbenzene			<0.0175	0.0175			
m,p-Xylenes			<0.0351	0.0351			
o-Xylene			<0.0175	0.0175			
Total Xylenes			<0.0175	0.0175			
Total BTEX			<0.0175	0.0175			
Inorganic Anions by EPA 300		Extracted:	12.19.2020 18:11	8:11			
		Analyzed:	12.21.2020 17:03	17:03			
	~	Units/RL:	mg/kg	RL			
Chloride			1410	50.1			
TPH by SW8015 Mod		Extracted:	12.19.2020 11:00	1:00			
		Analyzed:	12.23.2020 00:14	0:14			
	1	Units/RL:	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)			522	500			
Diesel Range Organics (DRO)			6360	500			
Motor Oil Range Hydrocarbons (MRO)	(0		<500	500			
Total TPH			6880	500			

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Page 2 of 26

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Environment Testing Xenco

# **Analytical Report 681867**

Page 37 of 128

# for

# WSP USA

**Project Manager: Joseph Hernandez** 

#### **RDU 11**

#### TE034820044

#### 01.21.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

01.21.2021 Project Manager: **Joseph Hernandez WSP USA** 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **681867 RDU 11** Project Address: Eddy County, New Mexico

#### Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681867. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681867 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 681867

#### WSP USA, Dallas, TX

RDU 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	12.18.2020 09:00	0.5 ft	681867-001
FS02	S	12.18.2020 09:02	0.3 - 0.5 ft	681867-002
FS03	S	12.18.2020 09:05	0.5 - 0.75 ft	681867-003
FS04	S	12.18.2020 09:07	0.3 - 0.75 ft	681867-004
FS05	S	12.18.2020 09:10	0.5 - 0.5 ft	681867-005
FS06	S	12.18.2020 09:12	0.5 ft	681867-006
FS07	S	12.18.2020 09:15	0.5 - 1 ft	681867-007

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CASE NARRATIVE

Client Name: WSP USA Project Name: RDU 11

Project ID: *TE034820044* Work Order Number(s): 681867

Environment Testing

 Report Date:
 01.21.2021

 Date Received:
 12.18.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         FS01           Lab Sample Id:         681867-001		Matrix: Date Co	Soil llected: 12.18.	2020 09:00		Date Received:12.1 Sample Depth: 0.5 f		:51
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB						0/ <b>7</b> 7 1		
Analyst: MAB		Date Pre	ep: 12.19.	2020 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3145671						Dasis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1970	50.3		mg/kg	12.21.2020 16:03		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521	15 Mod	Date Pre	ep: 12.19.	2020 11:00		% Moisture:	3015P Weight	
Tech: CAC Analyst: CAC	15 Mod Cas Number	Date Pre Result	ep: 12.19. RL	2020 11:00		% Moisture:		Dil
Tech:CACAnalyst:CACSeq Number:3145521			F.	2020 11:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	2020 11:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	2020 11:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:09	Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:09 12.22.2020 22:09	Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	2020 11:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.22.2020 22:09 12.22.2020 22:09 12.22.2020 22:09 12.22.2020 22:09	Weight Flag U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:09 12.22.2020 22:09 12.22.2020 22:09 12.22.2020 22:09 12.22.2020 22:09 Analysis Date	Weight Flag U U U U Flag	1 1 1

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Seq Number: 3145459

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# **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

Sample Id: <b>FS01</b> Lab Sample Id: 681867-001	Matrix: Soil Date Collected: 12.		Date Received Sample Depth	d:12.18.2020 15:51 n: 0.5 ft
Analytical Method: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech: MAB				
Analyst: MAB	Date Prep: 12.	18.2020 17:04	% Moisture: Basis:	Wat Waight
C N 1 2145450			Dasis.	Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0200	0.0200		mg/kg	12.18.2020 23:38	U	1
Toluene	108-88-3	< 0.0200	0.0200		mg/kg	12.18.2020 23:38	U	1
Ethylbenzene	100-41-4	0.224	0.0200		mg/kg	12.18.2020 23:38		1
m,p-Xylenes	179601-23-1	0.359	0.0400		mg/kg	12.18.2020 23:38		1
o-Xylene	95-47-6	0.305	0.0200		mg/kg	12.18.2020 23:38		1
Total Xylenes	1330-20-7	0.664	0.0200		mg/kg	12.18.2020 23:38		1
Total BTEX		0.888	0.0200		mg/kg	12.18.2020 23:38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	96	%	70-130	12.18.2020 23:38		
4-Bromofluorobenzene		460-00-4	108	%	70-130	12.18.2020 23:38		

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: <b>FS02</b> Lab Sample Id: 681867-002		Matrix: Date Col	Soil llected: 12.18	.2020 09:02		Date Received:12.1 Sample Depth: 0.3 -		:51
Analytical Method: Inorganic Anio Tech: MAB	ns by EPA 300					Prep Method: E300 % Moisture:	0P	
Analyst: MAB Seq Number: 3145671		Date Prep	p: 12.19	.2020 18:11			Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3520	50.1		mg/kg	12.21.2020 16:21		5
Analytical Method:TPH by SW801Tech:CACAnalyst:CACSeq Number:3145521	15 Mod	Date Pre	p: 12.19	.2020 11:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: CAC Analyst: CAC	15 Mod Cas Number	Date Prep Result	p: 12.19 <b>RL</b>	.2020 11:00	Units	% Moisture:		Dil
Tech:CACAnalyst:CACSeq Number:3145521			F.	.2020 11:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil 5
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	.2020 11:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech:CACAnalyst:CACSeq Number:3145521ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <250	RL 250	.2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:30	Weight Flag	5
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <250 2910	RL 250 250	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:30 12.22.2020 22:30	Weight Flag U	5 5
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <250 2910 <250 2910	RL 250 250 250	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:30 12.22.2020 22:30 12.22.2020 22:30 12.22.2020 22:30	Weight Flag U	5 5 5
Tech:CACAnalyst:CACSeq Number:3145521ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <250 2910 <250 2910	RL 250 250 250 250		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:30 12.22.2020 22:30 12.22.2020 22:30 12.22.2020 22:30 5 Analysis Date	Weight Flag U U Flag	5 5 5

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: Lab Sample I	<b>FS02</b> d: 681867-002		Matrix: Date Collected	Soil 1: 12.18.2020 09:02	Date Received:12.18.2020 15:5 Sample Depth: 0.3 - 0.5 ft	1
Analytical M	ethod: BTEX by EPA 802	21B			Prep Method: SW5035A	
Tech:	MAB					
Analyst:	MAB		Date Prep:	12.18.2020 17:26	% Moisture: Basis: Wet Weight	
Seq Number:	3145518				Dusis. Wet Weight	
Devementer		Cos Number	Decult DI	T		БЧ

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0233	0.0233		mg/kg	12.19.2020 23:17	U	1
Toluene	108-88-3	0.774	0.0233		mg/kg	12.19.2020 23:17		1
Ethylbenzene	100-41-4	1.55	0.0233		mg/kg	12.19.2020 23:17		1
m,p-Xylenes	179601-23-1	4.43	0.0465		mg/kg	12.19.2020 23:17		1
o-Xylene	95-47-6	2.08	0.0233		mg/kg	12.19.2020 23:17		1
Total Xylenes	1330-20-7	6.51	0.0233		mg/kg	12.19.2020 23:17		1
Total BTEX		8.83	0.0233		mg/kg	12.19.2020 23:17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	12.19.2020 23:17		
1,4-Difluorobenzene		540-36-3	86	%	70-130	12.19.2020 23:17		

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         FS03           Lab Sample Id:         681867-003		Matrix: Date Co	Soil ollected: 12.18	.2020 09:05		Date Received:12.1 Sample Depth: 0.5 -		51
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 12.19	.2020 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3145671						Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6640	50.1		mg/kg	12.21.2020 16:27		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW80Tech:CACAnalyst:CACSeq Number:3145521	15 Mod	Date Pr	ep: 12.19	.2020 11:00		% Moisture:	3015P Weight	
Tech: CAC Analyst: CAC	15 Mod Cas Number	Date Pr Result	ep: 12.19. RL	.2020 11:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter			-F.	.2020 11:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	.2020 11:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521	Cas Number PHC610	Result <49.8	RL 49.8	.2020 11:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:51	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <b>51.2</b>	RL 49.8 49.8	.2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:51 12.22.2020 22:51	Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	Result           <49.8	RL 49.8 49.8 49.8	.2020 11:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.22.2020 22:51 12.22.2020 22:51 12.22.2020 22:51 12.22.2020 22:51	Weight Flag U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result           <49.8	RL 49.8 49.8 49.8 49.8 49.8		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 22:51 12.22.2020 22:51 12.22.2020 22:51 12.22.2020 22:51 12.22.2020 22:51 Analysis Date	Weight Flag U U	1 1 1

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# **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

12.18.2020 17:04

Basis:

Wet Weight

Sample Id: <b>FS03</b> Lab Sample Id: 681867-003	Matrix: Soil Date Collected: 12.18.2020 09:05	Date Received:12.18.2020 15:51 Sample Depth: 0.5 - 0.75 ft
Analytical Method: BTEX by EPA 80	)21B	Prep Method: SW5035A
Tech: MAB	Data Davas 12, 18, 2020, 17:04	% Moisture:

Date Prep:

Analyst: MAB Seq Number: 3145459

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.19.2020 00:23	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.19.2020 00:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.19.2020 00:23		
1,4-Difluorobenzene		540-36-3	96	%	70-130	12.19.2020 00:23		

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: <b>FS04</b> Lab Sample Id: 681867-004		Matrix: Date Co	Soil llected: 12.18.	.2020 09:07		Date Received:12. Sample Depth: 0.3		:51
Analytical Method: Inorganic Anior	ns by EPA 300					Prep Method: E3	00P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.19.	.2020 18:11		% Moisture: Basis: Wa	et Weight	
Seq Number: 3145671							et weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6810	49.9		mg/kg	12.21.2020 16:33		5
Analytical Method: TPH by SW801	5 Mod					Prep Method: SW	V8015P	
Tech: CAC Analyst: CAC Seq Number: 3145521		Date Pre	F.	.2020 11:00	Units	% Moisture: Basis: Wo	et Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	.2020 11:00	Units	% Moisture: Basis: Wa Analysis Date		Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 278	<b>RL</b> 249	.2020 11:00	mg/kg	% Moisture: Basis: Wo Analysis Date 12.22.2020 23:11	et Weight	5
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number PHC610 C10C28DRO	Result 278 3340	RL 249 249	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.22.2020 23:11 12.22.2020 23:11	et Weight Flag	5 5
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result 278	<b>RL</b> 249	.2020 11:00	mg/kg	% Moisture: Basis: Wo Analysis Date 12.22.2020 23:11	et Weight	5
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result 278 3340 <249 3620	RL 249 249 249	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.22.2020 23:11 12.22.2020 23:11 12.22.2020 23:11 12.22.2020 23:11	et Weight Flag U	5 5 5
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result 278 3340 <249 3620	RL 249 249 249 249 249		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.22.2020 23:11 12.22.2020 23:11 12.22.2020 23:11 12.22.2020 23:11 12.22.2020 23:11	et Weight Flag U e Flag	5 5 5

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Sample Id:

Lab Sample

### **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

12.18.2020 17:04

:	FS04	Matrix:	Soil
ld:	681867-004	Date Collected:	12.18.2020 09:07

Date Received:12.18.2020 15:51 Sample Depth: 0.3 - 0.75 ft Prep Method: SW5035A % Moisture:

Wet Weight

Basis:

Analytical Method: BTEX by EPA 8021B

Tech:MABAnalyst:MABSeq Number:3145459

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.19.2020 00:45	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.19.2020 00:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	110	%	70-130	12.19.2020 00:45		
1,4-Difluorobenzene		540-36-3	97	%	70-130	12.19.2020 00:45		

Date Prep:

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         FS05           Lab Sample Id:         681867-005		Matrix: Date Co	Soil ollected: 12.18	.2020 09:10		Date Received:12 Sample Depth: 0.:		51
Analytical Method: Inorganic Anion Tech: MAB	s by EPA 300					Prep Method: E3	300P	
Analyst: MAB Seq Number: 3145671		Date Pro	ep: 12.19	.2020 18:11		% Moisture: Basis: W	/et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2680	49.9		mg/kg	12.21.2020 16:39	9	5
Analytical Method:TPH by SW801:Tech:CACAnalyst:CACSeq Number:3145521	5 Mod	Date Pro	ep: 12.19.	.2020 11:00		Prep Method: SW % Moisture: Basis: W	W8015P /et Weight	
Tech: CAC Analyst: CAC	5 Mod Cas Number	Date Pro Result	ep: 12.19. <b>RL</b>	.2020 11:00	Units	% Moisture:	/et Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521			-F.	.2020 11:00	Units mg/kg	% Moisture: Basis: W	/et Weight Flag	<b>Dil</b> 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number	Result	RL	.2020 11:00		% Moisture: Basis: W Analysis Date	Vet Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> 1040 7470 <499	RL 499 499 499	.2020 11:00	mg/kg mg/kg mg/kg	% Moisture: Basis: W Analysis Date 12.22.2020 23:32 12.22.2020 23:32 12.22.2020 23:32	Vet Weight Flag 2 2 2 2 2 2 2	10 10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 1040 7470	RL 499 499	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: W Analysis Date 12.22.2020 23:32 12.22.2020 23:32	Vet Weight Flag 2 2 2 2 2 2 2	10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result 1040 7470 <499 8510	RL 499 499 499	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: W Analysis Date 12.22.2020 23:32 12.22.2020 23:32 12.22.2020 23:32	Vet Weight Flag 2 2 2 2 2 2 2 2 2	10 10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> 1040 7470 <499 8510	RL 499 499 499 499 499		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: W Analysis Date 12.22.2020 23:32 12.22.2020 23:32 12.22.2020 23:32 12.22.2020 23:32	Vet Weight Flag 2 2 2 2 2 U 2 2 4 6 <b>Flag</b>	10 10 10

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# **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

Matrix: Soil

Sample Id: Lab Sample Id	<b>FS05</b> 1: 681867-005	Matrix: Date Collected	Soil l: 12.18.2020 09:10	Date Received Sample Depth:	l:12.18.2020 15:51 : 0.5 - 0.5 ft
5	,			Prep Method:	SW5035A
Tech: Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture:	
5	alytical Method: BTEX by EPA 8021B ch: MAB	Duite Hiep.		Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0196	6 0.0196		mg/kg	12.19.2020 01:08	U	1
Toluene	108-88-3	< 0.0196	5 0.0196		mg/kg	12.19.2020 01:08	U	1
Ethylbenzene	100-41-4	< 0.0196	6 0.0196		mg/kg	12.19.2020 01:08	U	1
m,p-Xylenes	179601-23-1	< 0.0392	0.0392		mg/kg	12.19.2020 01:08	U	1
o-Xylene	95-47-6	< 0.0196	5 0.0196		mg/kg	12.19.2020 01:08	U	1
Total Xylenes	1330-20-7	< 0.0196	6 0.0196		mg/kg	12.19.2020 01:08	U	1
Total BTEX		<0.0196	5 0.0196		mg/kg	12.19.2020 01:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	90	%	70-130	12.19.2020 01:08		
4-Bromofluorobenzene		460-00-4	102	%	70-130	12.19.2020 01:08		

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: <b>FS06</b>		Matrix:	Soil			Date Received:12.		51
Lab Sample Id: 681867-006		Date Col	llected: 12.18.	2020 09:12		Sample Depth: 0.5	ft	
Analytical Method: Inorganic Anior	ns by EPA 300					Prep Method: E3	00P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.19.	2020 18:11		% Moisture: Basis: We	t Waight	
Seq Number: 3145671							et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2080	49.6		mg/kg	12.21.2020 16:57		5
							1001 <b>CD</b>	
Analytical Method:TPH by SW801Tech:CACAnalyst:CACSeq Number:3145521	5 Mod	Date Pre	p: 12.19.	2020 11:00		Prep Method: SW % Moisture: Basis: We	V8015P et Weight	
Tech: CAC Analyst: CAC	5 Mod Cas Number	Date Prej Result	p: 12.19. <b>RL</b>	2020 11:00	Units	% Moisture:		Dil
Tech:CACAnalyst:CACSeq Number:3145521			F.	2020 11:00		% Moisture: Basis: We	et Weight	<b>Dil</b> 20
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	2020 11:00	Units	% Moisture: Basis: We Analysis Date	et Weight	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 1130	RL 1000	2020 11:00	Units mg/kg	% Moisture: Basis: We Analysis Date	et Weight	20
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 1130 19700	RL 1000 1000	2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 23:53 12.22.2020 23:53	et Weight Flag	20 20
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result 1130 19700 <1000 20800	RL 1000 1000 1000	2020 11:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 23:53 12.22.2020 23:53 12.22.2020 23:53 12.22.2020 23:53	et Weight Flag U	20 20 20
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result 1130 19700 <1000 20800	RL 1000 1000 1000 1000		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 23:53 12.22.2020 23:53 12.22.2020 23:53 12.22.2020 23:53	et Weight Flag U E Flag	20 20 20

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# **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

Sample Id:	FS06	Matrix:	Soil		1:12.18.2020 15:51	
Lab Sample I	d: 681867-006	Date Collected	1: 12.18.2020 09:12	Sample Depth: 0.5 ft		
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A	
Tech:	MAB			% Moisture:		
Analyst:	MAB	Date Prep:	12.18.2020 17:04	Basis:	Wet Weight	
Seq Number:	3145459					

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0196	0.0196		mg/kg	12.19.2020 01:31	U	1
Toluene	108-88-3	< 0.0196	0.0196		mg/kg	12.19.2020 01:31	U	1
Ethylbenzene	100-41-4	< 0.0196	0.0196		mg/kg	12.19.2020 01:31	U	1
m,p-Xylenes	179601-23-1	< 0.0392	0.0392		mg/kg	12.19.2020 01:31	U	1
o-Xylene	95-47-6	0.761	0.0196		mg/kg	12.19.2020 01:31		1
Total Xylenes	1330-20-7	0.761	0.0196		mg/kg	12.19.2020 01:31		1
Total BTEX		0.761	0.0196		mg/kg	12.19.2020 01:31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	12.19.2020 01:31		
4-Bromofluorobenzene		460-00-4	124	%	70-130	12.19.2020 01:31		

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# **Certificate of Analytical Results 681867**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         FS07           Lab Sample Id:         681867-007		Matrix: Date Coll	Soil lected: 12.18	.2020 09:15		Date Received:12.1 Sample Depth: 0.5		51
Analytical Method: Inorganic Anion Tech: MAB	s by EPA 300					Prep Method: E30	00P	
Analyst: MAB Seq Number: 3145671		Date Prep	p: 12.19	.2020 18:11		% Moisture: Basis: Wet	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1410	50.1		mg/kg	12.21.2020 17:03		5
Analytical Method:TPH by SW801Tech:CACAnalyst:CACSeq Number:3145521	5 Mod	Date Prep	p: 12.19.	.2020 11:00		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: CAC Analyst: CAC	5 Mod Cas Number	Date Prep Result	p: 12.19. RL	.2020 11:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3145521		-		.2020 11:00	Units mg/kg	% Moisture: Basis: Wet	t Weight	<b>Dil</b> 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number	Result	RL	.2020 11:00		% Moisture: Basis: Wet Analysis Date	t Weight	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 522 6360 <500	RL 500 500 500	.2020 11:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14	t Weight	10 10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 522 6360	RL 500 500	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.23.2020 00:14 12.23.2020 00:14	t Weight Flag	10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result 522 6360 <500 6880	RL 500 500 500	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14	t Weight Flag	10 10 10
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result 522 6360 <500 6880	RL 500 500 500 500		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14 12.23.2020 00:14	t Weight Flag U Flag	10 10 10

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# **Certificate of Analytical Results 681867**

#### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>FS07</b> d: 681867-007	Matrix: Date Collecte	Soil d: 12.18.2020 09:15		
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			Date Received:12.18.2020 1 Sample Depth: 0.5 - 1 ft Prep Method: SW5035A % Mojsture:	
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Dasis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
Toluene	108-88-3	< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
Ethylbenzene	100-41-4	< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
m,p-Xylenes	179601-23-1	< 0.0351	0.0351		mg/kg	12.19.2020 02:51	U	1
o-Xylene	95-47-6	< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
Total Xylenes	1330-20-7	< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
Total BTEX		< 0.0175	5 0.0175		mg/kg	12.19.2020 02:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.19.2020 02:51		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.19.2020 02:51		

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. ND	• Not Detected.		
RL Reporting Limit			
MDL Method Detection Limit SD	<b>DL</b> Sample Detection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit M	QL Method Quantitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit			
NC Non-Calculable			
SMP Client Sample	BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory Cor	ntrol Sample BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
<b>MD/SD</b> Method Duplicate/Sample D	Ouplicate MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered for	this compound.		

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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#### QC Summary 681867

#### WSP USA

#### RDU 11

Analytical Method: Seq Number:	<b>Inorganic</b> A 3145671	Anions by	y EPA 300		Matrix:	Solid				rep Meth Date Pr	ep: 12.1	9.2020	
MB Sample Id:	7717519-1-]	BLK		LCS Sar	nple Id:	7717519-	I-BKS		LCS	D Sample	e Id: 771	7519-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	261	104	90-110	0	20	mg/kg	12.21.2020 15:51	
Analytical Method:	0	Anions by	y EPA 300			<b>a</b> 11			P	rep Meth			
Seq Number: Parent Sample Id:	3145671 681867-001				Matrix: nple Id:	Soil 681867-00	01 S		MS	Date Pr D Sample	~	9.2020 867-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1970	202	2160	94	2150	90	90-110	0	20	mg/kg	12.21.2020 16:09	
Analytical Method:	-	Anions by	y EPA 300						P	rep Meth			
Seq Number: Parent Sample Id:	3145671 681876-004				Matrix: nple Id:	Soil 681876-00	04 S		MS	Date Pr D Sample	-	9.2020 876-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		103	200	316	107	317	107	90-110	0	20	mg/kg	12.21.2020 17:33	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3145521	V8015 M	od		Matrix:					rep Meth Date Pr	ep: 12.1	8015P 9.2020	
MB Sample Id:	7717503-1-	BLK		LCS Sar	nple Id:	7717503-	I-BKS		LCS	D Sample	e Id: 771	7503-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (		<50.0 <50.0	1000 1000	1030 974	103 97	1050 1120	105 112	70-135 70-135	2 14	35 35	mg/kg mg/kg	12.19.2020 13:21 12.19.2020 13:21	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
l-Chlorooctane o-Terphenyl		98 97			16 97		113 106			-135 -135	% %	12.19.2020 13:21 12.19.2020 13:21	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3145521	V8015 M	od		Matrix:	Solid			P	rep Meth Date Pr		8015P 9.2020	
					nple Id:	7717503-	I-BLK						
				100							Unite	Amalwaia	
Parameter				MB Result							Units	Analysis Date	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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#### QC Summary 681867

#### WSP USA

#### RDU 11

Analytical Method:	TPH by S	W8015 M	od						P	rep Meth	od: SW	8015P	
Seq Number:	3145521				Matrix:	Soil				Date Pr	ep: 12.1	9.2020	
Parent Sample Id:	681869-00	1		MS Sar	nple Id:	681869-00	01 S		MS	D Sample	e Id: 681	869-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	997	1110	111	1090	109	70-135	2	35	mg/kg	12.19.2020 14:21	
Diesel Range Organics	(DRO)	<49.9	997	1220	122	1140	114	70-135	7	35	mg/kg	12.19.2020 14:21	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	15		125		70	-135	%	12.19.2020 14:21	
o-Terphenyl				1	09		99		70	-135	%	12.19.2020 14:21	

Analytical Method:	BTEX by EPA 8021	В						Pı	rep Metho	od: SW	5035A	
Seq Number:	3145459		]	Matrix:	Solid				Date Pr	ep: 12.1	8.2020	
MB Sample Id:	7717487-1-BLK		LCS San	nple Id:	7717487-	1-BKS		LCS	D Sample	e Id: 771	7487-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0929	93	0.0942	94	70-130	1	35	mg/kg	12.18.2020 20:03	
Toluene	< 0.00200	0.100	0.0864	86	0.0938	94	70-130	8	35	mg/kg	12.18.2020 20:03	
Ethylbenzene	< 0.00200	0.100	0.0916	92	0.0951	95	71-129	4	35	mg/kg	12.18.2020 20:03	
m,p-Xylenes	< 0.00400	0.200	0.186	93	0.199	100	70-135	7	35	mg/kg	12.18.2020 20:03	
o-Xylene	< 0.00200	0.100	0.0913	91	0.0969	97	71-133	6	35	mg/kg	12.18.2020 20:03	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	102		9	7		99		70	-130	%	12.18.2020 20:03	
4-Bromofluorobenzene	116		1	08		111		70	-130	%	12.18.2020 20:03	

Analytical Method:	BTEX by EPA 8021	B						$\mathbf{P}_{1}$	rep Meth	od: SW	5035A	
Seq Number:	3145518			Matrix:	Solid				Date Pr	ep: 12.1	18.2020	
MB Sample Id:	7717509-1-BLK		LCS San	nple Id:	7717509-	l-BKS		LCS	D Sample	e Id: 771	7509-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0953	95	0.0943	94	70-130	1	35	mg/kg	12.19.2020 14:21	
Toluene	< 0.00200	0.100	0.0937	94	0.0908	91	70-130	3	35	mg/kg	12.19.2020 14:21	
Ethylbenzene	< 0.00200	0.100	0.0845	85	0.0833	83	71-129	1	35	mg/kg	12.19.2020 14:21	
m,p-Xylenes	< 0.00400	0.200	0.172	86	0.165	83	70-135	4	35	mg/kg	12.19.2020 14:21	
o-Xylene	< 0.00200	0.100	0.0868	87	0.0845	85	71-133	3	35	mg/kg	12.19.2020 14:21	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	97		ç	97		88		70	-130	%	12.19.2020 14:21	
4-Bromofluorobenzene	86		8	35		77		70	-130	%	12.19.2020 14:21	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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#### **QC** Summary 681867

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#### WSP USA

#### **RDU** 11

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3145459 681869-001	IB	-	Matrix: nple Id:	Soil 681869-00	01 S			rep Meth Date Pr D Sample	ep: 12.1	5035A 18.2020 869-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0961	96	0.0883	87	70-130	8	35	mg/kg	12.18.2020 20:48	
Toluene	< 0.00200	0.100	0.0904	90	0.0796	79	70-130	13	35	mg/kg	12.18.2020 20:48	
Ethylbenzene	< 0.00200	0.100	0.0922	92	0.0794	79	71-129	15	35	mg/kg	12.18.2020 20:48	
m,p-Xylenes	< 0.00401	0.200	0.191	96	0.161	80	70-135	17	35	mg/kg	12.18.2020 20:48	
o-Xylene	< 0.00200	0.100	0.0967	97	0.0834	83	71-133	15	35	mg/kg	12.18.2020 20:48	
Surrogate				IS Rec	MS Flag	MSD %Ree		_	imits	Units	Analysis Date	
1,4-Difluorobenzene			9	19		102		70	-130	%	12.18.2020 20:48	
4-Bromofluorobenzene			1	13		113		70	-130	%	12.18.2020 20:48	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3145518 681884-001	B		Matrix: nple Id:	Soil 681884-00	01 S			rep Metho Date Pro D Sample	ep: 12.1	5035A 18.2020 884-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.107	107	0.0917	92	70-130	15	35	mg/kg	12.19.2020 15:06	
Toluene	< 0.00200	0.0998	0.102	102	0.0863	87	70-130	17	35	mg/kg	12.19.2020 15:06	
Ethylbenzene	< 0.00200	0.0998	0.0924	93	0.0786	79	71-129	16	35	mg/kg	12.19.2020 15:06	
m,p-Xylenes	< 0.00399	0.200	0.186	93	0.157	79	70-135	17	35	mg/kg	12.19.2020 15:06	
o-Xylene	< 0.00200	0.0998	0.0936	94	0.0781	79	71-133	18	35	mg/kg	12.19.2020 15:06	
Surrogate				IS Rec	MS Flag	MSD %Ree		_	imits	Units	Analysis Date	
1,4-Difluorobenzene			9	95		94		70	-130	%	12.19.2020 15:06	
4-Bromofluorobenzene			8	37		87		70	-130	%	12.19.2020 15:06	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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CD:     9/2/20     Relinquished by: (Signature)     Date/Time     Relinquished by: (Signature)       0CD:     9/2/20     0     0     0     0       0CD:     0     0     0     0     0	Total 200.7 / 6010       200.8 / 6020:       BKCRA       13PPM       Jexas 11       ALSD       AS       Ba       Be       C a <th>FS\$4 V V \$912 \$9.5 1 1</th> <th>0 10</th> <th>SØD</th> <th><math display="block">\frac{FS}{D1} \leq \frac{1}{100} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000} \frac{1}{100000} \frac{1}{1000000} \frac{1}{10000000000000000000000000000000000</math></th> <th>TPH BTE</th> <th>н - Е ;х - Е</th> <th>SAMPLE RECEIPT     Temp Blank: Yes No       Temperature (°C):     1     2     1     0       Thermometer ID     Thermometer ID     Intainers       PA     84/3       -     E4A</th> <th>ZIB</th> <th>Routine XI</th> <th>Rou II</th> <th>Phone: (281) 7p2 - 2529 Email: joe.hernandez@ Wsp. On anna byers@ usp. dant Delivera</th> <th>city, state ZIP: Midland, TX 79705 City, state ZIP: Carlsbad, win 8224 Reporting</th> <th>3300 North ASt Address: 5315 Buena Vista Dr.</th> <th>Company Name: WSP USA INC Company Name: WPX Energy Program</th>	FS\$4 V V \$912 \$9.5 1 1	0 10	SØD	$\frac{FS}{D1} \leq \frac{1}{100} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000} \frac{1}{100000} \frac{1}{1000000} \frac{1}{10000000000000000000000000000000000$	TPH BTE	н - Е ;х - Е	SAMPLE RECEIPT     Temp Blank: Yes No       Temperature (°C):     1     2     1     0       Thermometer ID     Thermometer ID     Intainers       PA     84/3       -     E4A	ZIB	Routine XI	Rou II	Phone: (281) 7p2 - 2529 Email: joe.hernandez@ Wsp. On anna byers@ usp. dant Delivera	city, state ZIP: Midland, TX 79705 City, state ZIP: Carlsbad, win 8224 Reporting	3300 North ASt Address: 5315 Buena Vista Dr.	Company Name: WSP USA INC Company Name: WPX Energy Program
Received by: (Signature) Date/Time	Mg Mh Mo Ni K Se Ag SiO2 Na Sr Ti Sh O V Zh Ag Ti U 1631/245.1/7470 terms and conditions es beyond the control usly negotiated.					Sample Comments	TAT starts the day received by the lab, if received by 4:00pm	HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn	HNO3: HN H2S04: H2	None: NO		Deliverables: EDD ADaPT Other:	vel III PST/UST	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund

Final 1.001

# **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA	Acceptable Temperature	Range: 0 - 6 degC
Date/ Time Received: 12.18.2020 03.51.00 PM	Air and Metal samples Ac	ceptable Range: Ambient
Work Order #: 681867	Temperature Measuring c	levice used: T_NM_007
Sample Re	ceipt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Νο	
#18 Water VOC samples have zero headspace?	N/A	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 12.18.2020

Checklist reviewed by: Jessica Kramer

Date: 12.21.2020

Received by	OCD: 9/2	/2022	2:31:	38 P	И
ge 44 0				05	5
Pag		006	Ĥ		17

# **Certificate of Analysis Summary 681876** WSP USA, Dallas, TX

elease	festing			WSP USA, Dallas, TX	WSP USA, Dallas, TX			
				Project Nai	Project Name: RDU 11			
Project Id: Tl	3034820044					Date Received in Lab:	in Lab: Fri 12.18.2020 15:51	20 15:51
Contact: Jo	seph Hernandez					Repor	<b>Report Date:</b> 01.21.2021 08:49	18:49
<b>Project Location:</b> Ec	Eddy County, New Mexico	ico				Project Ma	Project Manager: Jessica Kramer	ıer
		Lab Id:	681876-001	681876-002	681876-003	681876-004	681876-005	681876-006
Analysis Day	notad	Field Id:	BH01	BH01	BH02	BH02	BH03	BH03
have sectional	nesten	Depth:	0.3-0.5 ft	0.75-1 ft	0.3-0.5 ft	0.75-1 ft	0.3-0.5 ft	0.75-1 ft
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampled:	12.18.2020 10:30	12.18.2020 10:35	12.18.2020 10:45	12.18.2020 10:47	12.18.2020 11:00	12.18.2020 11:05
BTEX by E	PA 8021B	Extracted:	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04	12.18.2020 17:04
		Analyzed:	12.19.2020 03:48	12.19.2020 04:10	12.19.2020 04:33	12.19.2020 04:56	12.19.2020 05:18	12.19.2020 05:41
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg F
Benzene			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
Toluene			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
Ethylbenzene			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
m,p-Xylenes			<0.00396 0.00396	<0.00402 0.00402	<0.00396 0.00396	<0.00401 0.00401	<0.00403 0.00403	<0.00398 0.00398
o-Xylene			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
Total Xylenes			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
Total BTEX			<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00199 0.00199
Inorganic Anions by EPA 300	ıs by EPA 300	Extracted:	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11	12.19.2020 18:11
		Analyzed:	12.21.2020 17:09	12.21.2020 17:15	12.21.2020 17:21	12.21.2020 17:27	12.21.2020 17:45	12.21.2020 17:51
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride			200 10.1	226 9.92	104 49.9	103 9.94	411 49.9	49.1 10.0
TPH by SW8015 Mod	8015 Mod	Extracted:	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00	12.19.2020 11:00
		Analyzed:	12.19.2020 16:01	12.19.2020 16:21	12.19.2020 16:41	12.19.2020 17:01	12.19.2020 17:21	12.19.2020 17:41
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)	ons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Diesel Range Organics (DRO)	(OX		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)	bons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Total TPH			<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Xenco	lesung			WSP USA, Dallas, TX		
				Project Name: RDU 11		
Project Id: TE034820044 is Contact: Joseph Hernandez	E034820044 seph Hernandez				Date Received in Lab: Report Date:	: Fri 12.18.2020 15 : 01.21.2021 08:49
<b>Project Location:</b> E(	Eddy County, New Mexico	ico			Project Manager:	: Jessica Kramer
		Lab Id:	681876-007	681876-008		
Analysis Dag	noted	Field Id:	BH04	BH04		
hav sistimut	nəscən	Depth:	0.3-0.5 ft	0.75-1 ft		
		Matrix:	SOIL	SOIL		
		Sampled:	12.18.2020 11:10	12.18.2020 11:15		
BTEX by E	PA 8021B	Extracted:	12.18.2020 17:04	12.18.2020 17:04		
		Analyzed:	12.19.2020 06:03	12.19.2020 06:26		
		Units/RL:	mg/kg RL	mg/kg RL		
Benzene			<0.00200 0.00200	<0.00200 0.00200		
Toluene				<0.00200 0.00200		
Ethylbenzene			<0.00200 0.00200	<0.00200 0.00200		
m,p-Xylenes			<0.00399 0.00399	<0.00399 0.00399		
o-Xylene			<0.00200 0.00200	<0.00200 0.00200		
Total Xylenes			<0.00200 0.00200	<0.00200 0.00200		
Total BTEX			<0.00200 0.00200	<0.00200 0.00200		
Inorganic Anions by EPA 300	ns by EPA 300	Extracted:	12.19.2020 18:11	12.19.2020 18:11		
		Analyzed:	12.21.2020 18:09	12.21.2020 18:15		
		Units/RL:	mg/kg RL	mg/kg RL		
Chloride			244 50.4	175 10.0		
TPH by SW8015 Mod	8015 Mod	Extracted:	12.19.2020 11:00	12.19.2020 11:00		
		Analyzed:	12.22.2020 21:28	12.22.2020 21:48		
		Units/RL:	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)	oons (GRO)		<49.9 49.9	<50.0 50.0		
Diesel Range Organics (DRO)	RO)		<49.9 49.9	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)	bons (MRO)		<49.9 49.9	<50.0 50.0		
Total TPH						

# **Certificate of Analysis Summary 681876**

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

. Released to Imaging: 1/13/2022 9:15:34 AM

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Environment Testing Xenco

# **Analytical Report 681876**

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# for

# WSP USA

**Project Manager: Joseph Hernandez** 

#### **RDU 11**

#### TE034820044

#### 01.21.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.21.2021 Project Manager: **Joseph Hernandez WSP USA** 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **681876 RDU 11** Project Address: Eddy County, New Mexico

#### Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681876. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681876 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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eurofins Environment Testing Xenco

# Sample Cross Reference 681876

#### WSP USA, Dallas, TX

RDU 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	12.18.2020 10:30	0.3 - 0.5 ft	681876-001
BH01	S	12.18.2020 10:35	0.75 - 1 ft	681876-002
BH02	S	12.18.2020 10:45	0.3 - 0.5 ft	681876-003
BH02	S	12.18.2020 10:47	0.75 - 1 ft	681876-004
BH03	S	12.18.2020 11:00	0.3 - 0.5 ft	681876-005
BH03	S	12.18.2020 11:05	0.75 - 1 ft	681876-006
BH04	S	12.18.2020 11:10	0.3 - 0.5 ft	681876-007
BH04	S	12.18.2020 11:15	0.75 - 1 ft	681876-008

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CASE NARRATIVE

Client Name: WSP USA Project Name: RDU 11

Project ID: *TE034820044* Work Order Number(s): 681876

Environment Testing

Report Date: 01.21.2021 Date Received: 12.18.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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# **Certificate of Analytical Results 681876**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         BH01           Lab Sample Id:         681876-001		Matrix: Date Coll	Soil lected: 12.18	.2020 10:30		Date Received:12.13 Sample Depth: 0.3 -		51
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Prep	p: 12.19	.2020 18:11		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3145671						Dasis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	200	10.1		mg/kg	12.21.2020 17:09		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	15 Mod Cas Number	Date Prep Result	F.	.2020 11:00	Units		Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	.2020 11:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	RL 50.0	.2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:01	Weight Flag U	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3145521	Cas Number	Result	RL	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date	Weight Flag	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:01 12.19.2020 16:01	Weight Flag U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:01 12.19.2020 16:01 12.19.2020 16:01 12.19.2020 16:01	Weight Flag U U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:01 12.19.2020 16:01 12.19.2020 16:01 12.19.2020 16:01 12.19.2020 16:01 3 Analysis Date	Weight Flag U U U U	<b>Dil</b> 1 1 1 1

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Environment Testing

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# **Certificate of Analytical Results 681876**

#### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH01</b> d: 681876-001	Matrix: Date Collected	Soil 12.18.2020 10:30	Date Received Sample Depth	l:12.18.2020 15:51 : 0.3 - 0.5 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ 34 : /	
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Dusis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.19.2020 03:48	U	1
Toluene	108-88-3	< 0.00198	8 0.00198		mg/kg	12.19.2020 03:48	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.19.2020 03:48	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.19.2020 03:48	U	1
o-Xylene	95-47-6	< 0.00198	8 0.00198		mg/kg	12.19.2020 03:48	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.19.2020 03:48	U	1
Total BTEX		< 0.00198	3 0.00198		mg/kg	12.19.2020 03:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	117	%	70-130	12.19.2020 03:48		
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.19.2020 03:48		

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Environment Testing

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# **Certificate of Analytical Results 681876**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:BH01Lab Sample Id:681876-002	Matrix: Date Colle	Soil ected: 12.18.	2020 10:35		Date Received:12.18.2020 15:51 Sample Depth: 0.75 - 1 ft			
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	00P	
Tech: MAB						0/ Maintenne		
Analyst: MAB		Date Prep	: 12.19.	2020 18:11		% Moisture: Basis: Wet	t Weight	
Seq Number: 3145671							t weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	9.92		mg/kg	12.21.2020 17:15		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	15 Mod Cas Number	Date Prep Result	: 12.19. RL	2020 11:00	Units	% Moisture:	8015P t Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter		Ĩ		2020 11:00		% Moisture: Basis: Wet	t Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> <49.9	RL 49.9	2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:21	t Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	RL 49.9 49.9	2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:21 12.19.2020 16:21	t Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3145521	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result           <49.9	RL 49.9 49.9 49.9	2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:21 12.19.2020 16:21 12.19.2020 16:21 12.19.2020 16:21	t Weight Flag U U U U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result           <49.9	RL 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:21 12.19.2020 16:21 12.19.2020 16:21 12.19.2020 16:21 Analysis Date	t Weight Flag U U U U Flag	

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# **Certificate of Analytical Results 681876**

#### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH01</b> d: 681876-002	Matrix: Date Collecte	Soil d: 12.18.2020 10:35	Date Received Sample Depth	d:12.18.2020 15:51 n: 0.75 - 1 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Da515.	wei weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.19.2020 04:10	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.19.2020 04:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	122	%	70-130	12.19.2020 04:10		
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.19.2020 04:10		

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# **Certificate of Analytical Results 681876**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:         BH02           Lab Sample Id:         681876-003	Matrix: Date Coll	Soil lected: 12.18	.2020 10:45		Date Received:12.18.2020 15:51 Sample Depth: 0.3 - 0.5 ft			
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Prep	p: 12.19	.2020 18:11			Weight	
Seq Number: 3145671							i eiBiie	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	49.9		mg/kg	12.21.2020 17:21		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	15 Mod Cas Number	Date Prep Result	p: 12.19. <b>RL</b>	.2020 11:00	Units	% Moisture:	3015P Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter		-	F.	.2020 11:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech:CACAnalyst:CACSeq Number:3145521	Cas Number	Result	RL	.2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result <50.0	RL 50.0	.2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:41	Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:41 12.19.2020 16:41	Weight Flag U U	
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:41 12.19.2020 16:41 12.19.2020 16:41 12.19.2020 16:41	Weight Flag U U U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 16:41 12.19.2020 16:41 12.19.2020 16:41 12.19.2020 16:41 12.19.2020 16:41 3 Analysis Date	Weight Flag U U U U U	

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# **Certificate of Analytical Results 681876**

#### WSP USA, Dallas, TX RDU 11

Sample Id: <b>BH02</b>	Matrix: Soil	Date Received:12.18.2020 15:51
Lab Sample Id: 681876-003	Date Collected: 12.18.2020 10:4	Sample Depth: 0.3 - 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB Seq Number: 3145459	Date Prep: 12.18.2020 17:0	Prep Method: SW5035A % Moisture: Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	12.19.2020 04:33	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.19.2020 04:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.19.2020 04:33		
1,4-Difluorobenzene		540-36-3	109	%	70-130	12.19.2020 04:33		
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## **Certificate of Analytical Results 681876**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id:         BH02           Lab Sample Id:         681876-004		Matrix: Date Col	Soil lected: 12.18	.2020 10:47		Date Received:12.1 Sample Depth: 0.75		:51
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB						0/ Maintana		
Analyst: MAB		Date Prep	p: 12.19	.2020 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3145671						Dusis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	9.94		mg/kg	12.21.2020 17:27		1
Analytical Method: TPH by SW80	15 Mod					Pren Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521		Date Prep	F.	.2020 11:00			Weight	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	.2020 11:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.0	.2020 11:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01	Weight Flag U	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01 12.19.2020 17:01	Weight Flag U U	<b>Dil</b> 1
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01 12.19.2020 17:01 12.19.2020 17:01	Weight Flag U U U	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01 12.19.2020 17:01	Weight Flag U U	<b>Dil</b> 1 1 1 1
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01 12.19.2020 17:01 12.19.2020 17:01 12.19.2020 17:01	Weight Flag U U U	<b>Dil</b> 1 1 1
Tech:CACAnalyst:CACSeq Number:3145521ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:01 12.19.2020 17:01 12.19.2020 17:01 12.19.2020 17:01 3. Analysis Date	Weight Flag U U U U U	<b>Dil</b> 1 1 1 1

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### **Certificate of Analytical Results 681876**

### WSP USA, Dallas, TX **RDU** 11

	Soil l: 12.18.2020 10:47		1:12.18.2020 15:51 1: 0.75 - 1 ft
		Prep Method:	SW5035A
Data Pran.	12 18 2020 17:04	% Moisture:	
		Date Collected: 12.18.2020 10:47	Date Collected: 12.18.2020 10:47 Sample Depth Prep Method: % Moisture:

Analyst: MAB Seq Number: 3145459

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.19.2020 04:56	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.19.2020 04:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	125	%	70-130	12.19.2020 04:56		
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.19.2020 04:56		

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Basis:

Wet Weight

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## **Certificate of Analytical Results 681876**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id: BH03		Matrix:	Soil			Date Received:12	.18.2020 15:	51
Lab Sample Id: 681876-005		Date Colle	ected: 12.18.20	020 11:00		Sample Depth: 0.3	3 - 0.5 ft	
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E3	500P	
Tech: MAB								
Analyst: MAB		Date Prep	12.19.20	020 18:11		% Moisture: Basis: W		
Seq Number: 3145671		-				Dasis: W	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	411	49.9		mg/kg	12.21.2020 17:45		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SV	W8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521	15 Mod	Date Prep	: 12.19.20	020 11:00		% Moisture:	V8015P et Weight	
Tech: CAC Analyst: CAC	15 Mod Cas Number	Date Prep. Result	: 12.19.20 RL	020 11:00		% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter				020 11:00		% Moisture: Basis: Wo	et Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3145521	Cas Number	Result	RL	020 11:00	Units	% Moisture: Basis: Wa Analysis Date	et Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	<b>RL</b> 50.0	020 11:00	Units mg/kg	% Moisture: Basis: Wo Analysis Date 12.19.2020 17:21	et Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	<b>RL</b> 50.0 50.0	020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.19.2020 17:21 12.19.2020 17:21	et Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0 50.0	020 11:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.19.2020 17:21 12.19.2020 17:21 12.19.2020 17:21 12.19.2020 17:21	et Weight Flag U U U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0 50.0		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 12.19.2020 17:21 12.19.2020 17:21 12.19.2020 17:21 12.19.2020 17:21 Analysis Date	et Weight Flag U U U U U e Flag	1 1 1

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## **Certificate of Analytical Results 681876**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH03</b> d: 681876-005	Matrix: Date Collecte	Soil d: 12.18.2020 11:00	Date Received Sample Depth	1:12.18.2020 15:51 1: 0.3 - 0.5 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Dasis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.19.2020 05:18	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.19.2020 05:18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.19.2020 05:18		
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.19.2020 05:18		

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## **Certificate of Analytical Results 681876**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id: <b>BH03</b> Lab Sample Id: 681876-006		Matrix: Date Colle	Soil ected: 12.18.	.2020 11:05		Date Received:12.1 Sample Depth: 0.75		51
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB						0/ <b>5 f i</b> i		
Analyst: MAB		Date Prep:	: 12.19.	.2020 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3145671							. weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	49.1	10.0		mg/kg	12.21.2020 17:51		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	15 Mod Cas Number	Date Prep: Result	: 12.19. RL	.2020 11:00	Units	% Moisture:	Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	.2020 11:00		% Moisture: Basis: Wet Analysis Date	: Weight Flag	Dil
Tech:CACAnalyst:CACSeq Number:3145521		Ĩ		.2020 11:00	mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <50.1	RL 50.1	.2020 11:00		% Moisture: Basis: Wet Analysis Date 12.19.2020 17:41	Weight Flag	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.19.2020 17:41 12.19.2020 17:41	: Weight Flag U U	<b>Dil</b> 1 1 1 1
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1	<b>RL</b> 50.1 50.1 50.1	2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.19.2020 17:41 12.19.2020 17:41 12.19.2020 17:41 12.19.2020 17:41	E Weight Flag U U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.19.2020 17:41 12.19.2020 17:41 12.19.2020 17:41 12.19.2020 17:41 Mnalysis Date	E Weight Flag U U U U Flag	<b>Dil</b> 1 1 1 1

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## **Certificate of Analytical Results 681876**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH03</b> d: 681876-006	Matrix: Date Collecte	Soil d: 12.18.2020 11:05	Date Received Sample Depth	d:12.18.2020 15:51 n: 0.75 - 1 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/25.1	
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Da313.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.19.2020 05:41	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.19.2020 05:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	125	%	70-130	12.19.2020 05:41		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.19.2020 05:41		

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## **Certificate of Analytical Results 681876**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id: <b>BH04</b> Lab Sample Id: 681876-007		Matrix: Date Coll	Soil lected: 12.18.2	2020 11:10		Date Received:12.13 Sample Depth: 0.3 -		:51
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E300	0P	
Tech: MAB						0/ <b>5</b> 7 1		
Analyst: MAB		Date Prep	p: 12.19.2	2020 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3145671							weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	244	50.4		mg/kg	12.21.2020 18:09		5
Analytical Method: TPH by SW801 Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter		Date Prep Result		2020 11:00			Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	2020 11:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <49.9	RL 49.9	2020 11:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 21:28	Weight Flag U	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter	Cas Number	Result	RL	2020 11:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 21:28 12.22.2020 21:28	Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	RL 49.9 49.9	2020 11:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 21:28	Weight Flag U	
Tech:       CAC         Analyst:       CAC         Seq Number:       3145521         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	2020 11:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 21:28 12.22.2020 21:28 12.22.2020 21:28 12.22.2020 21:28	Weight Flag U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.22.2020 21:28 12.22.2020 21:28 12.22.2020 21:28 12.22.2020 21:28 12.22.2020 21:28 Analysis Date	Weight Flag U U U U U	1 1 1

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## **Certificate of Analytical Results 681876**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH04</b> d: 681876-007	Matrix: Date Collecte	Soil d: 12.18.2020 11:10	Date Received Sample Depth	d:12.18.2020 15:51 n: 0.3 - 0.5 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/35.	
Analyst:	MAB	Date Prep:	12.18.2020 17:04	% Moisture: Basis:	Wet Weight
Seq Number:	3145459			Dusis.	wet weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.19.2020 06:03	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.19.2020 06:03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.19.2020 06:03		
4-Bromofluorobenzene		460-00-4	125	%	70-130	12.19.2020 06:03		

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## **Certificate of Analytical Results 681876**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id: BH04		Matrix:	Soil			Date Received:12.	18.2020 15:	:51
Lab Sample Id: 681876-008		Date Col	lected: 12.18.	.2020 11:15		Sample Depth: 0.7	5 - 1 ft	
Analytical Method: Inorganic Ani	ons by EPA 300					Prep Method: E3	00P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.19.	.2020 18:11		% Moisture: Basis: We		
Seq Number: 3145671						Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	175	10.0		mg/kg	12.21.2020 18:15		1
Analytical Method: TPH by SW80	015 Mod					Prep Method: SW	/8015P	
Tech: CAC Analyst: CAC Seq Number: 3145521		Date Pre	F.	.2020 11:00		% Moisture: Basis: We	et Weight	
Tech: CAC Analyst: CAC	)15 Mod Cas Number	Date Pre	p: 12.19. <b>RL</b>	.2020 11:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)			F.	.2020 11:00	Units mg/kg	% Moisture: Basis: We	et Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00		% Moisture: Basis: We Analysis Date 12.22.2020 21:48 12.22.2020 21:48	et Weight Flag U U	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00	mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 21:48 12.22.2020 21:48 12.22.2020 21:48	et Weight Flag U U U	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	.2020 11:00	mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 21:48 12.22.2020 21:48	et Weight Flag U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	.2020 11:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 21:48 12.22.2020 21:48 12.22.2020 21:48 12.22.2020 21:48	et Weight Flag U U U U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3145521 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.22.2020 21:48 12.22.2020 21:48 12.22.2020 21:48 12.22.2020 21:48	et Weight Flag U U U U U S Flag	<b>Dil</b> 1 1 1 1

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## **Certificate of Analytical Results 681876**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH04</b> d: 681876-008		Matrix: Date Collected	Soil d: 12.18.2020 11:15		Date Received Sample Depth		15:51
Analytical Me	ethod: BTEX by EPA 802	21B				Prep Method:	SW5035A	
Tech: Analyst:	MAB MAB		Date Prep:	12.18.2020 17:04		% Moisture:		
Seq Number:			Date Flep.	12.10.2020 17.04		Basis:	Wet Weight	t
Parameter		Cas Number	Result BI		Unite	Analysis D	ata Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.19.2020 06:26	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.19.2020 06:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	124	%	70-130	12.19.2020 06:26		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.19.2020 06:26		

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. ND	• Not Detected.		
RL Reporting Limit			
MDL Method Detection Limit SD	<b>DL</b> Sample Detection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit M	QL Method Quantitation Limit	LOQ Limit of Quantitation	n
DL Method Detection Limit			
NC Non-Calculable			
SMP Client Sample	BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory Cor	ntrol Sample BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
<b>MD/SD</b> Method Duplicate/Sample D	Ouplicate MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered for	this compound.		

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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### QC Summary 681876

### WSP USA

#### RDU 11

Analytical Method: Seq Number:	<b>Inorganic</b> A 3145671	Anions by	y EPA 300		Matrix:	Solid			Pı	ep Metho Date Pro		0P 9.2020	
MB Sample Id:	7717519-1-]	BLK		LCS San	nple Id:	7717519-1	-BKS		LCS	D Sample	e Id: 771	7519-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	261	104	90-110	0	20	mg/kg	12.21.2020 15:51	
Analytical Method:	0	Anions by	y EPA 300						Pı	ep Metho	od: E30	0P	
Seq Number:	3145671				Matrix:		1.0			Date Pro	-	9.2020	
Parent Sample Id:	681867-001			MS Sar	nple Id:	681867-00	)1 S		MS.	-	e Id: 681	867-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1970	202	2160	94	2150	90	90-110	0	20	mg/kg	12.21.2020 16:09	
Analytical Method: Seq Number:	<b>Inorganic</b> A 3145671	Anions by	y EPA 300		Matrix:	Soil			Pı	ep Metho Date Pro		0P 9.2020	
Parent Sample Id:	681876-004			MS Sar	nple Id:	681876-00	)4 S		MS]	D Sample	e Id: 681	876-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		103	200	316	107	317	107	90-110	0	20	mg/kg	12.21.2020 17:33	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3145521	V8015 M	od		Matrix:	Solid			Pı	ep Metho Date Pro		8015P .9.2020	
MB Sample Id:	7717503-1-	BLK				7717503-1	-BKS		LCS		-	7503-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<50.0	1000	1030	103	1050	105	70-135	2	35	mg/kg	12.19.2020 13:21	
Diesel Range Organics (	(DRO)	<50.0	1000	974	97	1120	112	70-135	14	35	mg/kg	12.19.2020 13:21	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree		Li	mits	Units	Analysis Date	
1-Chlorooctane				% 1				c Flag	70	-135 -135	Units % %	-	
1-Chlorooctane o-Terphenyl Analytical Method:		<b>%Rec</b> 98 97	Flag	<b>%</b> 1 9	<b>Rec</b> 16 07	Flag	%Re 113	c Flag	70 70	-135 -135 rep Metho	% % od: SW	Date 12.19.2020 13:21 12.19.2020 13:21 8015P	
1-Chlorooctane o-Terphenyl Analytical Method:	<b>TPH by SW</b> 3145521	<b>%Rec</b> 98 97	Flag	%. 1 5	Rec 16 07 Matrix:	Flag	%Rec 113 106	c Flag	70 70	-135 -135	% % od: SW	Date 12.19.2020 13:21 12.19.2020 13:21	
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: Seq Number: Parameter		<b>%Rec</b> 98 97	Flag	%. 1 5	Rec 16 07 Matrix:	Flag Solid	%Rec 113 106	c Flag	70 70	-135 -135 rep Metho	% % od: SW	Date 12.19.2020 13:21 12.19.2020 13:21 8015P	Flag

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.002
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### QC Summary 681876

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#### WSP USA

#### RDU 11

Analytical Method:TPH bySeq Number:3145521Parent Sample Id:681869-		od		Matrix: nple Id:	Soil 681869-00	01 S			ep Meth Date Pr D Sample	ep: 12.1	8015P 9.2020 869-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1110	111	1090	109	70-135	2	35	mg/kg	12.19.2020 14:21	
Diesel Range Organics (DRO)	<49.9	997	1220	122	1140	114	70-135	7	35	mg/kg	12.19.2020 14:21	
Surrogate				1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane			1	15		125		70	-135	%	12.19.2020 14:21	
o-Terphenyl			1	09		99		70	-135	%	12.19.2020 14:21	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3145459		]	Matrix:	Solid				Date Pr	ep: 12.1	8.2020	
MB Sample Id:	7717487-1-BLK		LCS San	nple Id:	7717487-	I-BKS		LCS	D Sample	e Id: 771	7487-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0929	93	0.0942	94	70-130	1	35	mg/kg	12.18.2020 20:03	
Toluene	< 0.00200	0.100	0.0864	86	0.0938	94	70-130	8	35	mg/kg	12.18.2020 20:03	
Ethylbenzene	< 0.00200	0.100	0.0916	92	0.0951	95	71-129	4	35	mg/kg	12.18.2020 20:03	
m,p-Xylenes	< 0.00400	0.200	0.186	93	0.199	100	70-135	7	35	mg/kg	12.18.2020 20:03	
o-Xylene	< 0.00200	0.100	0.0913	91	0.0969	97	71-133	6	35	mg/kg	12.18.2020 20:03	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	102		9	7		99		70	-130	%	12.18.2020 20:03	
4-Bromofluorobenzene	116		1	08		111		70	-130	%	12.18.2020 20:03	

Analytical Method:	BTEX by EPA 8021	B						$\mathbf{P}_{1}$	rep Metho	od: SW	5035A	
Seq Number:	3145459			Matrix:	Soil				Date Pre	ep: 12.1	18.2020	
Parent Sample Id:	681869-001		MS Sar	nple Id:	681869-00	01 S		MS	D Sample	Id: 681	869-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0961	96	0.0883	87	70-130	8	35	mg/kg	12.18.2020 20:48	
Toluene	< 0.00200	0.100	0.0904	90	0.0796	79	70-130	13	35	mg/kg	12.18.2020 20:48	
Ethylbenzene	< 0.00200	0.100	0.0922	92	0.0794	79	71-129	15	35	mg/kg	12.18.2020 20:48	
m,p-Xylenes	< 0.00401	0.200	0.191	96	0.161	80	70-135	17	35	mg/kg	12.18.2020 20:48	
o-Xylene	< 0.00200	0.100	0.0967	97	0.0834	83	71-133	15	35	mg/kg	12.18.2020 20:48	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	99		102		70	-130	%	12.18.2020 20:48	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

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MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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12.18.2020 20:48

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%

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s: EDD    Level III    PST s: EDD    ADaPT ADAPT ADAT	<ul> <li>organization of units accument and reinquishment of samples constitutes professory. Senso will be liable only for the cost of samples and shall not assume the cost of samples and shall not assume the cost of \$75.00 will be applied to each project and a change of \$75.00 will be applied to each project and \$75.00 will b</li></ul>
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C. H9 T #S     City, State ZIP:     Caulsback, NM 68 CL#     ReportingLevel II []Level II [] PST       32.9     Email:     ye herman du H0 us p.com 4 duna, bayes @ Lus p.com     Deliverables: EDD []     ADaPI       Turn Around     Pst     Routine     Pst     Deliverables: EDD []     ADaPI       Quote #:     Due Dele:     0 one     0 one     ADaPI     ADaPI       Trans     Rush:     Correction Factor:     -0.2     A     A     A     A     A     Correction Factor:     -0.2     A	
C. F 9 T #S     City, State ZIP:     Clausboad, NM     98.724     Reporting:Level II     Reporting:Level II     Level II     PST       37.9     Turn Around     Turn Around     Press     Press     Deliverables: EDD     ADaP       Value     Rush:     Image: Constance of Containers     Press     ADaP     Press     ADaP       Ink:     Too     Wet Ice:     Too     Image: Containers     Image: Containers     ADaP       Ink:     Too     Wet Ice:     Too     Image: Containers     Image: Container	
C. F 9 T #S     City, State ZIP:     Causback, JMM 88 L24     Reporting:Level II [_Level III [_PST       32.9     Turn Around     Fmail:     ive. hernan dt. PGusp.com     Deliverables: EDD     ADaP       32.9     Routine     A     Contraction Factor:     0.2     Rush:     A     Correction Factor:     0.2     A       A     Correction Factor:     0.2     Depth     Number of Containers     TPH     - EPA & B/2 L/B     A     A	\$1/12/12/24
C. F9T#S     City, State ZIP:     Causback, MM 68/24     Reporting:Level II [] PST       32.4     Email:     ye.herman dt #@usp.com*tounabyes@usp.com     Deliverables: EDD     ADaPT       Turn Around     Pms     Analys@usp.com     ANALYSIS REQUEST     Deliverables: EDD     ADaPT       Quote #:     Due Date:     Code     Analys@usp.com     Analysis@usp.com     Analysi@usp.com     Analysis@usp.com     Analys	Sample Identification Matrix Sampled
C + 9 + p S     City, State ZIP:     Causback, NM 68/24     Reporting:Level II     Perturnal       32.9     Fmail:     ge. herman dt + Clusp.com     Deliverables: EDD     ADaPT       Turn Around     Prest     Could Prest     ANALYSIS REQUEST     Deliverables: EDD     ADaPT       Quote #:     Due Date:     Could Prest     A     Containers     SM B     SM B     SM B     A       No     Wet ice:     Kes No     SM B     SM B     SM B     SM B     SM B     A     A	Sample Custody Seals: Yes No N/A Total
C +9++S     City, State ZIP:     Causbad, NM 88/24       32.9     Email:     ge/hernand_#F0.45p.com/duna.bytes@usp.com       32.9     Turn Around     Pms.       Routine     Pms.     ANALYSIS REQUI       Rush:     Due Date:     Code       Quote #:     Due Date:     Due Date:       Thermometer ID     SSR     SSR       Ink:     Xe3 No     Wet Ice:	Yes NO NIA
C F97#S     City, State ZIP:     Causbad, NM 88 CL4       314     Email:     ge/hernandu +@usp.com/duna.byes@usp.com       ANALYSIS REQUI       Routine     Pms.       Rush:     Code       Quote #:     Due Date:       Due Date:     S       S     S       No     Wet Ice:       Vest No     g       Thomas Anno 1	Yes No /-
C 79745 City, State ZIP: Causbad, NM 88024 329 Email: 'ye hernandu 7005 p.com/annabyes@usp.com Turn Around Pres. Routine A cost Routine A cost Quote #: Due Date: Due Date	1.1
C 79745 City, State ZIP: Causbad, NM 88024 329 Email: "gehemands Power Jana, byes@usp.com Turn Around Press Routine Press Rush: Due Date: Due Date: To n 2	
TGTPS     City, State ZIP:     Clausbad, NM 88 CL4       Email:     'ye.hernandu + Cusp.con-taina.byes@usp.com       Turn Around     Pres.       Routine     Pres.       Rush:     Code	NRM2454258-714
FGTPS     City, State ZIP:     Causbad, NM 88ULP       Email:     jce.hemandi.     Coursp.com/anna.byes@usp.com       Turn Around     Pres.     ANALYSIS REQUE       Routine     Pres.     Coste	Sampler's Name: Anna buers
The state zip: Causbad, sim 88000	10
79745 City, State ZIP: Carlsbod, NM 88124 329 Email: jce.hernanderOusp.com/anna.byers@usp.com	4
79745 City, state ZIP: Causboal, NM 88124	1601) 762-6
Hand	TI NI WWWWWWWW
AC	A ALICE A ACC
Company Name: WYX FARTS 1	202 A JULY A
Bill to: (if different)	LUS SISA
	Tosent lering and a

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA	Acceptable Temperature F	Range: 0 - 6 degC
Date/ Time Received: 12.18.2020 03.51.00 PM	Air and Metal samples Acc	
Work Order #: 681876	Temperature Measuring de	evice used: T_NM_007
Sample Rec	eipt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 12.18.2020

Checklist reviewed by: Jessica WAMER Jessica Kramer

Date: 12.21.2020

Received in Lab:	Fri 12.18.2020 15:51
Report Date: 01.22.2021 09:	Keport Date: 01.22.2021 09:41

elease			WSP USA	WSP USA, Dallas, TX	nooton k		Receive
			Project Na	Project Name: RDU 11			
Project Id: TE034820044					Date Received in Lab:	in Lab: Fri 12.18.2020 15:51	
Contact: Joseph Hernandez					Repor	<b>Report Date:</b> 01.22.2021 09:41	
Project Location: Eddy County, New Mexico	Mexico				Project M	Project Manager: Jessica Kramer	
	Lab Id:	681880-001	681880-002	681880-003	681880-004	681880-005	681880-006
Andreis Domotod	Field Id:	BH05	BH05	BH06	BH06	BH07	BH07
naisanhay sistimuv	Depth:	0.75-1 ft	1-1.5 ft	0.75-1 ft	1-1.5 ft	0.75-1 ft	1-1.5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	12.18.2020 12:24	12.18.2020 12:26	12.18.2020 12:29	12.18.2020 12:30	12.18.2020 12:33	12.18.2020 12:35
BTEX by EPA 8021B	Extracted:	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00
	Analyzed:	12.29.2020 05:51	12.29.2020 06:14	12.29.2020 06:36	12.29.2020 06:59	12.29.2020 07:21	12.29.2020 07:44
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00204 0.00204	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00204 0.00204	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00204 0.00204	<0.00202 0.00202	< 0.00200  0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
in,p-Xylenes		<0.00408 0.00408	<0.00403 0.00403	<0.00399 0.00399	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00204 0.00204	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00204 0.00204	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00204 0.00204	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300	Extracted:	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00
	Analyzed:	12.28.2020 18:53	12.28.2020 19:11	12.28.2020 19:17	12.28.2020 19:23	12.28.2020 19:29	12.28.2020 19:46
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride	-	2110 49.5	42.7 10.0	354 10.0	76.7 10.1	1000 9.94	46.7 9.98
TPH by SW8015 Mod	Extracted:	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00
	Analyzed:	12.28.2020 19:36	12.28.2020 19:56	12.28.2020 20:16	12.28.2020 20:36	12.28.2020 20:56	12.28.2020 21:17
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.2 50.2	<50.1 50.1
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.2 50.2	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.1 50.1	<50.3 50.3	<50.2 50.2	<50.1 50.1
Total TPH		~\$0.0 \$0.0	0 01 0 01/	201 E01	CU3 CU3	CU3 CU3/	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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681880	
<b>Certificate of Analysis Summary</b>	WSP USA, Dallas, TX

ed by OCD: 8/31/2021 2:43:17 PM			ato of A not		601000		Page 72 o
Celease Kenco		Ceruito	ate of Allary WSP USA	STUIICATE OF ALIALYSIS SUIIIIIALY WSP USA, Dallas, TX	000100		D
			Project Na	Project Name: RDU 11			
roject Id: TE034820044					Date Received in Lab:	in Lab: Fri 12.18.2020 15:51	20 15:51
Contact: Joseph Hernandez					Repor	Report Date: 01.22.2021 09:41	9:41
roject Location: Eddy County, New Mexico	tico				Project Ma	Project Manager: Jessica Kramer	ıer
	Lab Id:	681880-007	681880-008	681880-009	681880-010	681880-011	681880-012
Analysis Domostad	Field Id:	BH08	BH08	BH09	BH09	BH10	BH10
naicanhay ciclinut	Depth:	0.75-1 ft	1-1.5 ft	0.75-1 ft	1-1.5 ft	0.75-1 ft	1-1.5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	12.18.2020 12:36	12.18.2020 12:37	12.18.2020 12:40	12.18.2020 12:42	12.18.2020 12:45	12.18.2020 12:47
BTEX by EPA 8021B	Extracted:	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00
	Analyzed:	12.29.2020 08:06	12.29.2020 08:29	12.29.2020 08:51	12.29.2020 09:13	12.29.2020 10:33	12.29.2020 10:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg R
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00401 0.00401	<0.00403 0.00403	<0.00401 0.00401	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300	Extracted:	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00	12.28.2020 16:00
	Analyzed:	12.28.2020 19:52	12.28.2020 19:58	12.28.2020 20:04	12.28.2020 20:10	12.28.2020 20:16	12.28.2020 20:34
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		852 9.96	4730 50.1	1300 49.7	2320 49.6	6610 99.0	810 10.0
TPH by SW8015 Mod	Extracted:	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00	12.28.2020 12:00
	Analyzed:	12.28.2020 21:37	12.28.2020 21:57	12.28.2020 20:56	12.28.2020 21:17	12.28.2020 21:37	12.28.2020 21:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<251 251	<50.1 50.1	706 251	<50.3 50.3	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		2830 251	<50.1 50.1	4290 251	88.3 50.3	83.4 50.0	52.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<251 251	<50.1 50.1	<251 251	<50.3 50.3	<50.0 50.0	<49.8 49.8

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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49.8

52.8

50.0

83.4

50.3

88.3

251

5000

50.1

<50.1

251

2830

Total TPH

Environment Testing Xenco

## Analytical Report 681880

Page 90 of 128

### for

### WSP USA

**Project Manager: Joseph Hernandez** 

#### **RDU 11**

#### TE034820044

#### 01.22.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

01.22.2021 Project Manager: Joseph Hernandez WSP USA 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **681880 RDU 11** Project Address: Eddy County, New Mexico

#### Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 681880. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 681880 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins Environment Testing Xenco

## Sample Cross Reference 681880

### WSP USA, Dallas, TX

RDU 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH05	S	12.18.2020 12:24	0.75 - 1 ft	681880-001
BH05	S	12.18.2020 12:26	1 - 1.5 ft	681880-002
BH06	S	12.18.2020 12:29	0.75 - 1 ft	681880-003
BH06	S	12.18.2020 12:30	1 - 1.5 ft	681880-004
BH07	S	12.18.2020 12:33	0.75 - 1 ft	681880-005
BH07	S	12.18.2020 12:35	1 - 1.5 ft	681880-006
BH08	S	12.18.2020 12:36	0.75 - 1 ft	681880-007
BH08	S	12.18.2020 12:37	1 - 1.5 ft	681880-008
BH09	S	12.18.2020 12:40	0.75 - 1 ft	681880-009
BH09	S	12.18.2020 12:42	1 - 1.5 ft	681880-010
BH10	S	12.18.2020 12:45	0.75 - 1 ft	681880-011
BH10	S	12.18.2020 12:47	1 - 1.5 ft	681880-012

Xenco

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CASE NARRATIVE

Client Name: WSP USA Project Name: RDU 11

Project ID: *TE034820044* Work Order Number(s): 681880

Environment Testing

 Report Date:
 01.22.2021

 Date Received:
 12.18.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Environment Testing

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## **Certificate of Analytical Results 681880**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id:         BH05           Lab Sample Id:         681880-001		Matrix: Date Col	Soil lected: 12.18.2	2020 12:24		Date Received:12.1 Sample Depth: 0.75		:51
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.28.2	2020 16:00		% Moisture: Basis: Wet	<b>N</b> 7.1.1.4	
Seq Number: 3146200			-			Dasis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2110	49.5		mg/kg	12.28.2020 18:53		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	15 Mod Cas Number	Date Prej Result	p: 12.28.2 RL	2020 12:00	Units	Prep Method: SW8 % Moisture: Basis: Wet Analysis Date	8015P Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	Cas Number	Result	RL	2020 12:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)			L	2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet	Weight	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	Cas Number PHC610	Result	RL 50.0	2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:36	Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	RL 50.0 50.0	2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.28.2020 19:36 12.28.2020 19:36	Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0	2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.28.2020 19:36 12.28.2020 19:36 12.28.2020 19:36 12.28.2020 19:36	Weight Flag U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.0 <50.0 <50.0 <50.0 <50.0	RL 50.0 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:36 12.28.2020 19:36 12.28.2020 19:36 12.28.2020 19:36 12.28.2020 19:36 Analysis Date	Weight Flag U U U U U Flag	1 1 1

Xenco

Environment Testing

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### **Certificate of Analytical Results 681880**

### WSP USA, Dallas, TX RDU 11

Sample Id:	BH05		Matrix:	Soil		Date Received	1:12.18.2	2020 15:	51
Lab Sample Io	d: 681880-001		Date Collected	1: 12.18.2020 12:24		Sample Depth	:0.75 -	l ft	
Analytical Me	ethod: BTEX by EPA 8021B	l				Prep Method:	SW503	35A	
Tech:	MAB								
Analyst:	MAB		Date Prep:	12.28.2020 16:00		% Moisture: Basis:	Wet W	aiaht	
Seq Number:	3146281					Dasis.	Wet W	eigni	
Parameter	С	as Number	Result <b>R</b> I		Units	Analysis D	ate	Flao	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
Toluene	108-88-3	< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
Ethylbenzene	100-41-4	< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
m,p-Xylenes	179601-23-1	< 0.00408	0.00408		mg/kg	12.29.2020 05:51	U	1
o-Xylene	95-47-6	< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
Total Xylenes	1330-20-7	< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
Total BTEX		< 0.00204	0.00204		mg/kg	12.29.2020 05:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.29.2020 05:51		
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.29.2020 05:51		

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Environment Testing

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id:BH05Lab Sample Id:681880-002		Matrix: Date Col	Soil llected: 12.18	.2020 12:26		Date Received:12.1 Sample Depth: 1 - 1		:51
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Prej	p: 12.28	.2020 16:00			Weight	
Seq Number: 3146200							, or orgine	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.7	10.0		mg/kg	12.28.2020 19:11		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	15 Mod Cas Number	Date Prej Result	p: 12.28. <b>RL</b>	.2020 12:00	Units	% Moisture:	8015P Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter			F.	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet	Weight	Dil
Tech:CACAnalyst:CACSeq Number:3146194	Cas Number	Result	RL	.2020 12:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result <49.8	RL 49.8	.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:56	Weight Flag U	
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	RL 49.8 49.8	.2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:56 12.28.2020 19:56	Weight Flag U U	
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8	.2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:56 12.28.2020 19:56 12.28.2020 19:56 12.28.2020 19:56	Weight Flag U U U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <49.8 <49.8 <49.8 <49.8 <49.8	RL 49.8 49.8 49.8 49.8 49.8		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 19:56 12.28.2020 19:56 12.28.2020 19:56 12.28.2020 19:56	Weight Flag U U U U Flag	

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## **Certificate of Analytical Results 681880**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH05</b> d: 681880-002	Matrix: Date Collecte	Soil d: 12.18.2020 12:26	Date Received Sample Depth	d:12.18.2020 15:51 n: 1 - 1.5 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/36:	
Analyst:	MAB	Date Prep:	12.28.2020 16:00	% Moisture: Basis:	Wet Weight
Seq Number:	3146281			Dasis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.29.2020 06:14	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.29.2020 06:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.29.2020 06:14		
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.29.2020 06:14		

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## **Certificate of Analytical Results 681880**

## WSP USA, Dallas, TX

#### RDU 11

Sample Id:BH06Lab Sample Id:681880-003		Matrix: Date Coll	Soil lected: 12.18.	.2020 12:29		Date Received:12.1 Sample Depth: 0.75		:51
Analytical Method: Inorganic Ani	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	b: 12.28.	.2020 16:00		% Moisture: Basis: Wet	Weight	
Seq Number: 3146200						Dasis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	354	10.0		mg/kg	12.28.2020 19:17		1
Analytical Method: TPH by SW80	015 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	)15 Mod Cas Number	Date Prep Result	o: 12.28. RL	.2020 12:00	Units	% Moisture: Basis: Wet	Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	Cas Number	Result	RL	.2020 12:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)				.2020 12:00	mg/kg	% Moisture: Basis: Wet	Weight Flag U	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter	Cas Number PHC610	<b>Result</b>	RL 50.1	.2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:16	Weight Flag	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:16 12.28.2020 20:16	Weight Flag U U	<b>Dil</b> 1 1 1 1
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	Result <50.1 <50.1 <50.1 <50.1	<b>RL</b> 50.1 50.1 50.1	.2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:16 12.28.2020 20:16 12.28.2020 20:16 12.28.2020 20:16	Weight Flag U U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <50.1 <50.1 <50.1 <50.1	<b>RL</b> 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:16 12.28.2020 20:16 12.28.2020 20:16 12.28.2020 20:16 12.28.2020 20:16	Weight Flag U U U U Flag	<b>Dil</b> 1 1 1 1

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## **Certificate of Analytical Results 681880**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH06</b> d: 681880-003	Matrix: Date Collecte	Soil d: 12.18.2020 12:29	Date Received Sample Depth	d:12.18.2020 15:51 n: 0.75 - 1 ft
Analytical Me	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ <b>7</b> 5 1 1	
Analyst:	MAB	Date Prep:	12.28.2020 16:00	% Moisture: Basis:	Wet Weight
Seq Number:	3146281			Da515.	wei weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.29.2020 06:36	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 06:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.29.2020 06:36		
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.29.2020 06:36		

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: BH06		Matrix:	Soil			Date Received:12.1		:51
Lab Sample Id: 681880-004		Date Coll	lected: 12.18.2	2020 12:30		Sample Depth: 1 - 1	1.5 ft	
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Prep	p: 12.28.2	2020 16:00		% Moisture: Basis: Wet	W:-1.4	
Seq Number: 3146200						Dasis. Wet	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.7	10.1		mg/kg	12.28.2020 19:23		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW3	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194	115 Mod	Date Prep	p: 12.28.2	2020 12:00		% Moisture:	8015P t Weight	
Tech: CAC Analyst: CAC Seq Number: 3146194	15 Mod Cas Number	Date Prep Result	p: 12.28.2 RL	2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter			ę.	2020 12:00	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	2020 12:00		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result	RL 50.3	2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:36	t Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.3 <50.3	RL 50.3 50.3	2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:36 12.28.2020 20:36	t Weight Flag U U	
Tech: CAC Analyst: CAC	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result           <50.3	RL 50.3 50.3 50.3	2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:36 12.28.2020 20:36 12.28.2020 20:36 12.28.2020 20:36	t Weight Flag U U U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result           <50.3	RL 50.3 50.3 50.3 50.3 50.3		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:36 12.28.2020 20:36 12.28.2020 20:36 12.28.2020 20:36 12.28.2020 20:36 5 Analysis Date	t Weight Flag U U U U Flag	

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### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH06</b> l: 681880-004		Matrix: Date Collected	Soil d: 12.18.2020 12:30		Date Received Sample Depth			51
Analytical Me	thod: BTEX by EPA 802	21B				Prep Method:	SW503	35A	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep:	12.28.2020 16:00		Basis:	Wet W	eight	
Seq Number:	3146281								
Parameter		Cas Number	Result RI	,	Units	Analysis Da	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	3 0.00198		mg/kg	12.29.2020 06:59	U	1
Toluene	108-88-3	< 0.00198	8 0.00198		mg/kg	12.29.2020 06:59	U	1
Ethylbenzene	100-41-4	< 0.00198	8 0.00198		mg/kg	12.29.2020 06:59	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.29.2020 06:59	U	1
o-Xylene	95-47-6	< 0.00198	8 0.00198		mg/kg	12.29.2020 06:59	U	1
Total Xylenes	1330-20-7	< 0.00198	8 0.00198		mg/kg	12.29.2020 06:59	U	1
Total BTEX		< 0.00198	3 0.00198		mg/kg	12.29.2020 06:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	12.29.2020 06:59		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.29.2020 06:59		

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: BH07		Matrix:	Soil			Date Received:12.1	8.2020 15	:51
Lab Sample Id: 681880-005		Date Col	llected: 12.18.	.2020 12:33		Sample Depth: 0.75	- 1 ft	
Analytical Method: Inorganic Ani	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.28.	.2020 16:00		% Moisture: Basis: Wet	W:-1-4	
Seq Number: 3146200			-			Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1000	9.94		mg/kg	12.28.2020 19:29		1
Analytical Method: TPH by SW8(	015 Mod					Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194	015 Mod	Date Pre	p: 12.28.	.2020 12:00		% Moisture:	3015P Weight	
Tech: CAC Analyst: CAC Seq Number: 3146194	015 Mod Cas Number	Date Pre Result	p: 12.28. RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter			1	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: CAC Analyst: CAC	Cas Number	Result	RL	2020 12:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.2	RL 50.2	.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:56	Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.2 <50.2	RL 50.2 50.2	2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:56 12.28.2020 20:56	Weight Flag U U	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Jasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2	2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56	Weight Flag U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2		mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 Analysis Date	Weight Flag U U U U Flag	1 1 1

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### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH07</b> : 681880-005		Matrix: Date Collected	Soil 1: 12.18.2020 12:33		Date Received Sample Depth			51
Analytical Me	thod: BTEX by EPA 802	21B				Prep Method:	SW503	5A	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep:	12.28.2020 16:00		Basis:	Wet We	eight	
Seq Number:	3146281							C	
Parameter		Cas Number	Result RI		Unite	Analysis D	ato I	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.29.2020 07:21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 07:21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.29.2020 07:21		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.29.2020 07:21		

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: BH07		Matrix:	Soil			Date Received:12.1	8.2020 15	:51
Lab Sample Id: 681880-006		Date Col	llected: 12.18	.2020 12:35		Sample Depth: 1 - 1	.5 ft	
Analytical Method: Inorganic Ani	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 12.28.	.2020 16:00		% Moisture:	<b>XX7 * 1</b> /	
Seq Number: 3146200						Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.7	9.98		mg/kg	12.28.2020 19:46		1
Analytical Method: TPH by SW80	)15 Mod					Prep Method: SW8	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146194	)15 Mod	Date Pre	ep: 12.28	.2020 12:00		% Moisture:	8015P Weight	
Tech:CACAnalyst:CACSeq Number:3146194	)15 Mod Cas Number	Date Pre Result	pp: 12.28. RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter			I	.2020 12:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	.2020 12:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result	RL 50.1	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17	Weight Flag U	<b>Dil</b> 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	.2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17	Weight Flag U U	<b>Dil</b> 1 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 12:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17	Weight Flag U U U	<b>Dil</b> 1 1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17	Weight Flag U U U U Flag	<b>Dil</b> 1 1 1 1

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### WSP USA, Dallas, TX RDU 11

I I	<b>BH07</b> d: 681880-006	Matrix: Date Collecte	Soil ed: 12.18.2020 12:35	Date Received Sample Depth	d:12.18.2020 15:51 n:1 - 1.5 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 16:00	% Moisture: Basis:	Wet Weight
Seq Number:	3146281			Dasis.	wei weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.29.2020 07:44	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.29.2020 07:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.29.2020 07:44		
4-Bromofluorobenzene		460-00-4	115	%	70-130	12.29.2020 07:44		

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id:BH08Lab Sample Id:681880-007		Matrix: Date Coll	Soil lected: 12.18	.2020 12:36		Date Received:12.1 Sample Depth: 0.75		51
Analytical Method: Inorganic Ani	ons by EPA 300					Prep Method: E30	00P	
Tech: MAB								
Analyst: MAB		Date Prep	p: 12.28	.2020 16:00		% Moisture: Basis: Wet	t Waiaht	
Seq Number: 3146200						Dasis. wei	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	852	9.96		mg/kg	12.28.2020 19:52		1
Analytical Method: TPH by SW8	015 Mod					Prep Method: SW	8015P	
Tech:CACAnalyst:CACSeq Number:3146194		Date Prep	F.	.2020 12:00		% Moisture:	8015P t Weight	
Tech: CAC Analyst: CAC	015 Mod Cas Number	Date Prep Result	p: 12.28 <b>RL</b>	.2020 12:00	Units	% Moisture:		Dil
Tech:CACAnalyst:CACSeq Number:3146194		-	F.	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet	t Weight	Dil 5
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result	RL	.2020 12:00		% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <251	<b>RL</b> 251 251 251	.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:37	t Weight Flag	5 5 5
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <251 2830	RL 251 251	.2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:37 12.28.2020 21:37	t Weight Flag U	5 5
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	Result <251 2830 <251 2830	<b>RL</b> 251 251 251	.2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet <u>Analysis Date</u> 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37	t Weight Flag U	5 5 5
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)         Total TPH       Case Case Case Case Case Case Case Case	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result <251 2830 <251 2830	RL 251 251 251 251		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 Mnalysis Date	t Weight Flag U U Flag	5 5 5

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### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH08</b> d: 681880-007		Matrix: Date Collected	Soil d: 12.18.2020 12:36	Date Receive Sample Dept	d:12.18.2020 15 h: 0.75 - 1 ft	5:51
Analytical M	ethod: BTEX by EPA 80	21B			Prep Method	: SW5035A	
Tech:	MAB						
Analyst:	MAB		Date Prep:	12.28.2020 16:00	% Moisture: Basis:	W-4 W-:-14	
Seq Number:	3146281				Dasis.	Wet Weight	
Parameter		Cas Number	Result DI	T.	nite Analysis I	Noto Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.29.2020 08:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 08:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	12.29.2020 08:06		
4-Bromofluorobenzene		460-00-4	104	%	70-130	12.29.2020 08:06		

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## **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: BH08		Matrix:	Soil			Date Received:12.1	8.2020 15:	:51
Lab Sample Id: 681880-008		Date Collected: 12.18.2020 12:37				Sample Depth: 1 - 1.5 ft		
Analytical Method: Inorganic Anio	ns by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 12.28	.2020 16:00		% Moisture: Basis: Wet	Weisht	
Seq Number: 3146200						Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4730	50.1		mg/kg	12.28.2020 19:58		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	8015P	
Analytical Method:TPH by SW80Tech:CACAnalyst:CACSeq Number:3146194	15 Mod	Date Pr	ep: 12.28	.2020 12:00		% Moisture:	8015P Weight	
Tech:CACAnalyst:CACSeq Number:3146194	15 Mod Cas Number	Date Pro Result	ep: 12.28 RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter			1	.2020 12:00		% Moisture: Basis: Wet	Weight	<b>Dil</b> 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	.2020 12:00	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result <50.1	RL 50.1	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57	Weight Flag U	
Tech:       CAC         Analyst:       CAC         Seq Number:       3146194         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.1 <50.1	RL 50.1 50.1	.2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57	Weight Flag U U	
Tech: CAC Analyst: CAC	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1	.2020 12:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57	Weight Flag U U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146194 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.1 <50.1 <50.1 <50.1 <50.1	RL 50.1 50.1 50.1 50.1 50.1		Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57	Weight Flag U U U U Flag	1 1 1
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### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample I	<b>BH08</b> d: 681880-008	Matrix: Date Collecte	Soil d: 12.18.2020 12:37	Date Received Sample Depth	l:12.18.2020 15:51 : 1 - 1.5 ft
2	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech: Analyst:	MAB MAB	Date Prep:	12.28.2020 16:00	% Moisture:	
Seq Number:	3146281	Dute Trep.	1_1_0_0_0_0 10100	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	12.29.2020 08:29	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	12.29.2020 08:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	12.29.2020 08:29		
4-Bromofluorobenzene		460-00-4	109	%	70-130	12.29.2020 08:29		

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### **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: <b>BH09</b> Lab Sample Id: 681880-009		Matrix: Date Coll	Soil ected: 12.18.	2020 12:40		Date Received:12. Sample Depth: 0.7		51
Analytical Method: Inorganic Anion Tech: MAB	s by EPA 300					Prep Method: E30	00P	
Analyst: MAB Seq Number: 3146200		Date Prep	: 12.28.	2020 16:00		% Moisture: Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1300	49.7		mg/kg	12.28.2020 20:04		5
Analytical Method:TPH by SW801Tech:CACAnalyst:CACSeq Number:3146196	5 Mod	Date Prep	r: 12.28.	2020 12:00		Prep Method: SW % Moisture: Basis: We	78015P et Weight	
Tech: CAC Analyst: CAC	5 Mod Cas Number	Date Prep Result	r: 12.28. RL	2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter				2020 12:00	Units mg/kg	% Moisture: Basis: We	t Weight	Dil 5
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number	Result	RL	2020 12:00		% Moisture: Basis: We Analysis Date	t Weight	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result 706	RL 251	2020 12:00	mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 20:56	t Weight	5
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	Result 706 4290	RL 251 251	2020 12:00	mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 20:56 12.28.2020 20:56	t Weight Flag	5 5
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC635	Result 706 4290 <251 5000	RL 251 251 251	2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56	t Weight Flag U	5 5 5
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result 706 4290 <251 5000	RL 251 251 251 251 251		mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 12.28.2020 20:56 Analysis Date	t Weight Flag U Flag	5 5 5

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### WSP USA, Dallas, TX RDU 11

Sample Id: <b>BH09</b> Lab Sample Id: 681880-009	Matrix: Date Collecte	Soil d: 12.18.2020 12:40	Date Received Sample Depth	d:12.18.2020 15:51 a: 0.75 - 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method:	SW5035A
Tech:MABAnalyst:MABSeq Number:3146281	Date Prep:	12.28.2020 16:00	% Moisture: Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.29.2020 08:51	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 08:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	70-130	12.29.2020 08:51		
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.29.2020 08:51		

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### **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: BH09		Matrix:	Soil			Date Received:12.1	8.2020 15:	:51
Lab Sample Id: 681880-010		Date Col	llected: 12.18.	.2020 12:42		Sample Depth: 1 - 1	1.5 ft	
Analytical Method: Inorganic Anic	ons by EPA 300					Prep Method: E30	OP	
Tech: MAB								
Analyst: MAB		Date Pre	p: 12.28.	.2020 16:00		% Moisture:	<b>W</b> 7.1.1.4	
Seq Number: 3146200			-			Basis: Wet	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2320	49.6		mg/kg	12.28.2020 20:10		5
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146196	15 Mod	Date Pre	p: 12.28.	.2020 12:00		% Moisture:	8015P t Weight	
Tech: CAC Analyst: CAC Seq Number: 3146196	15 Mod Cas Number	Date Pre Result	p: 12.28. RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter			F.	.2020 12:00		% Moisture: Basis: Wet	t Weight	<b>Dil</b>
Tech: CAC Analyst: CAC	Cas Number	Result	RL	.2020 12:00	Units	% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.3	RL 50.3	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.3 <b>88.3</b>	RL 50.3 50.3	.2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17	t Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	<b>Result</b> <50.3 88.3 <50.3 88.3 88.3	RL 50.3 50.3 50.3	.2020 12:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17	t Weight Flag U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	<b>Result</b> <50.3 88.3 <50.3 88.3 88.3	RL 50.3 50.3 50.3 50.3 50.3		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 12.28.2020 21:17 Analysis Date	t Weight Flag U U Flag	1 1 1

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### WSP USA, Dallas, TX RDU 11

Sample Id: <b>BH09</b> Lab Sample Id: 681880-010	Matrix: Soil Date Collected: 12.18.	Date Received:12.18.2020 15:51.2020 12:42Sample Depth: 1 - 1.5 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3146281	Date Prep: 12.28.	.2020 16:00 Prep Method: SW5035A Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	12.29.2020 09:13	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	12.29.2020 09:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	12.29.2020 09:13		
4-Bromofluorobenzene		460-00-4	125	%	70-130	12.29.2020 09:13		

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### **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

#### RDU 11

Sample Id: BH10		Matrix:	Soil			Date Received:12.	18.2020 15:	:51
Lab Sample Id: 681880-011		Date Colle	ected: 12.18.	.2020 12:45		Sample Depth: 0.7	5 - 1 ft	
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	00P	
Tech: MAB								
Analyst: MAB		Date Prep	: 12.28.	.2020 16:00		% Moisture:		
Seq Number: 3146200		1				Basis: We	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6610	99.0		mg/kg	12.28.2020 20:16		10
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW	/8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146196	15 Mod	Date Prep	: 12.28.	2020 12:00		Prep Method: SW % Moisture: Basis: We	/8015P et Weight	
Tech: CAC Analyst: CAC Seq Number: 3146196	15 Mod Cas Number	Date Prep Result	: 12.28. RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter				.2020 12:00	Units mg/kg	% Moisture: Basis: We	et Weight	<b>Dil</b>
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	2020 12:00		% Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> <50.0	<b>RL</b> 50.0	.2020 12:00	mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 21:37	et Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	Result <50.0 83.4	<b>RL</b> 50.0 50.0	.2020 12:00	mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 21:37 12.28.2020 21:37	rt Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result           <50.0	<b>RL</b> 50.0 50.0 50.0	2020 12:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37	et Weight Flag U U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result           <50.0	<b>RL</b> 50.0 50.0 50.0 50.0		mg/kg mg/kg mg/kg	% Moisture: Basis: We Analysis Date 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 12.28.2020 21:37 Analysis Date	Flag U U Flag	1 1 1

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### **Certificate of Analytical Results 681880**

### WSP USA, Dallas, TX RDU 11

Sample Id: <b>BH10</b> Lab Sample Id: 681880-011		Matrix: Date Collecte	Soil d: 12.18.2020 12:45		Date Received Sample Depth			51
Analytical Method: BTEX by EP.	A 8021B				Prep Method:	SW50	35A	
Tech: MAB Analyst: MAB		Date Prep:	12.28.2020 16:00		% Moisture: Basis:	Wat V	Veight	
Seq Number: 3146281					Dasis.	weiv	veight	
Parameter	<b>Cas Number</b>	Result <b>R</b> I	,	Units	Analysis Da	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	12.29.2020 10:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 10:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.29.2020 10:33		
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.29.2020 10:33		

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### **Certificate of Analytical Results 681880**

# WSP USA, Dallas, TX

### RDU 11

Sample Id: BH10		Matrix:	Soil			Date Received:12.1	8.2020 15:	:51
Lab Sample Id: 681880-012		Date Col	llected: 12.18.	.2020 12:47		Sample Depth: 1 - 1	1.5 ft	
Analytical Method: Inorganic Anio	ons by EPA 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 12.28.	.2020 16:00		% Moisture: Basis: Wet	W/-:-1-4	
Seq Number: 3146200			-			Dasis. wei	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	810	10.0		mg/kg	12.28.2020 20:34		1
Analytical Method: TPH by SW80	015 Mod					Prep Method: SW	8015P	
Analytical Method: TPH by SW80 Tech: CAC Analyst: CAC Seq Number: 3146196	115 Mod	Date Pre	ep: 12.28.	.2020 12:00		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: CAC Analyst: CAC	015 Mod Cas Number	Date Pre Result	pp: 12.28. RL	.2020 12:00	Units	% Moisture:		Dil
Tech: CAC Analyst: CAC Seq Number: 3146196			F.	.2020 12:00		% Moisture: Basis: Wet	t Weight	Dil
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter	Cas Number	Result	RL	.2020 12:00	Units	% Moisture: Basis: Wet Analysis Date	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.8	RL 49.8	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57	t Weight Flag	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <b>52.8</b>	RL 49.8 49.8	.2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57	t Weight Flag U	
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result           <49.8	RL 49.8 49.8 49.8	.2020 12:00 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57	t Weight Flag U	1 1 1
Tech: CAC Analyst: CAC Seq Number: 3146196 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result           <49.8	RL 49.8 49.8 49.8 49.8 49.8		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 12.28.2020 21:57 Analysis Date	t Weight Flag U U Flag	1 1 1

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### **Certificate of Analytical Results 681880**

### WSP USA, Dallas, TX RDU 11

Sample Id: Lab Sample Id	<b>BH10</b> l: 681880-012		Matrix: Date Collected	Soil d: 12.18.2020 12:47		Date Received Sample Depth			51
Analytical Me	thod: BTEX by EPA 802	21B				Prep Method:	SW50	)35A	
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Prep:	12.28.2020 16:00		Basis:	Wet V	Veight	
Seq Number:	3146281							U	
Parameter		Cas Number	Result <b>RI</b>	,	Units	Analysis Da	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	12.29.2020 10:56	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.29.2020 10:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	12.29.2020 10:56		
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.29.2020 10:56		

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ole Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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### QC Summary 681880

#### WSP USA

#### RDU 11

						RDU	11						
Seq Number:	<b>Inorganic</b> <i>A</i> 3146200		y EPA 300		Matrix:	Solid 7717985-	IBKS			ep Metho Date Pro	ep: 12.2	0P 28.2020 7985-1-BSD	
MB Sample Id:	7717985-1-]	BLK MB	Spike	LCS Sal				Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Amount	Result	%Rec	LCSD Result	LCSD %Rec	Limits	%RPD	Limit	Units	Date	Flag
Chloride		<10.0	250	257	103	258	103	90-110	0	20	mg/kg	12.28.2020 18:41	
Analytical Method: Seq Number:	<b>Inorganic</b> A 3146200	Anions by	y EPA 300		Matrix:					ep Metho Date Pr	ep: 12.2	28.2020	
Parent Sample Id:	681880-001			MS Sar	nple Id:	681880-00	01 S		MS	D Sample	e Id: 681	880-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		2110	199	2300	95	2320	105	90-110	1	20	mg/kg	12.28.2020 18:59	
Analytical Method: Seq Number:	3146200		y EPA 300		Matrix:	Soil 681880-0	11.0			ep Metho Date Pro	ep: 12.2	28.2020	
Parent Sample Id:	681880-011		6 <b>1</b>		1			<b></b>		-		880-011 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6610	200	6800	95	6810	99	90-110	0	20	mg/kg	12.28.2020 20:22	
Analytical Method: Seq Number: MB Sample Id:	<b>TPH by SW</b> 3146194 7717990-1-1		od		Matrix: nple Id:	Solid 7717990-1	I-BKS			rep Metho Date Pro D Sample	ep: 12.2	8015P 28.2020 7990-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	Result <50.0	<b>Amount</b> 1000	Result 998	%Rec 100	<b>Result</b> 1080	<b>%Rec</b> 108	70-135	8	Limit 35	mg/kg	12.28.2020 13:52	
Diesel Range Organics (		<50.0	1000	937	94	1060	106	70-135	12	35	mg/kg	12.28.2020 13:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		102 107			03 02		101 99			-135 -135	% %	12.28.2020 13:52 12.28.2020 13:52	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3146196	V8015 M	od		Matrix:	Solid			Pı	ep Metho Date Pro		8015P 28.2020	
MB Sample Id:	7717992-1-	BLK		LCS Sar	nple Id:	7717992-	I-BKS		LCS		-	7992-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (		<50.0 <50.0	1000 1000	1100 1050	110 105	1160 1020	116 102	70-135 70-135	5 3	35 35	mg/kg mg/kg	12.28.2020 13:52 12.28.2020 13:52	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
			-	1	18		106		70	-135	%	12.28.2020 13:52	
1-Chlorooctane		117		1	10		100		70	-155	/0		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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QC Summary 681880

12.28.2020 13:32

mg/kg

### WSP USA

RDU 11

Analytical Method: Seq Number:	<b>TPH by SW8015 Mod</b> 3146194	Matrix: MB Sample Id:	Solid 7717990-1-BLK	Prep Method: Date Prep:		8015P 8.2020	
Parameter		MB Result		τ	Jnits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		n	ng/kg	12.28.2020 13:32	
Analytical Method:	v		0.111	Prep Method:		8015P	
Seq Number:	3146196	Matrix: MB Sample Id:	Solid 7717992-1-BLK	Date Prep:	12.2	8.2020	
Parameter		MB Result		τ	J <b>nits</b>	Analysis Date	Flag

< 50.0

Motor Oil Range Hydrocarbons (MRO)

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by Sv</b> 3146194 682305-00		od	] MS San	Matrix: nple Id:	Soil 682305-00	)1 S			ep Meth Date Pr D Sample	ep: 12.2	8015P 28.2020 305-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	998	1120	112	980	98	70-135	13	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics	(DRO)	<49.9	998	1000	100	1130	113	70-135	12	35	mg/kg	12.28.2020 14:55	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1-Chlorooctane				1	11		102		70	-135	%	12.28.2020 14:55	
o-Terphenyl				1	06		116		70	-135	%	12.28.2020 14:55	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by S</b> 3146196 682650-00		od	MS San	Matrix: nple Id:	Soil 682650-00	)2 S			ep Methe Date Pr D Sample	ep: 12.2	8015P 28.2020 650-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.2	1000	1200	120	1290	129	70-135	7	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics	(DRO)	96.8	1000	1210	111	1090	99	70-135	10	35	mg/kg	12.28.2020 14:55	
Surrogate					IS Rec	MS Flag	MSD %Ree			mits	Units	Analysis Date	
1-Chlorooctane				1	11		107		70	-135	%	12.28.2020 14:55	
o-Terphenyl				1	06		114		70	-135	%	12.28.2020 14:55	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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### QC Summary 681880

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#### WSP USA

#### RDU 11

Analytical Method:	BTEX by EPA 8021	l B						Р	rep Meth	od: SW	5035A	
Seq Number:	3146281		]	Matrix:	Solid				Date Pr	ep: 12.2	28.2020	
MB Sample Id:	7717986-1-BLK		LCS San	nple Id:	7717986-	1-BKS		LCS	D Sampl	e Id: 771	7986-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0925	93	0.0948	95	70-130	2	35	mg/kg	12.29.2020 03:46	
Toluene	< 0.00200	0.100	0.0859	86	0.0889	89	70-130	3	35	mg/kg	12.29.2020 03:46	
Ethylbenzene	< 0.00200	0.100	0.0876	88	0.0909	91	71-129	4	35	mg/kg	12.29.2020 03:46	
m,p-Xylenes	< 0.00400	0.200	0.182	91	0.188	94	70-135	3	35	mg/kg	12.29.2020 03:46	
o-Xylene	< 0.00200	0.100	0.0909	91	0.0935	94	71-133	3	35	mg/kg	12.29.2020 03:46	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec		_	imits	Units	Analysis Date	
1,4-Difluorobenzene	112		1	00		104		70	-130	%	12.29.2020 03:46	
4-Bromofluorobenzene	119		1	07		109		70	-130	%	12.29.2020 03:46	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3146281 681880-001	B		Matrix: nple Id:	Soil 681880-00	01 S			rep Metho Date Pr D Samplo	ep: 12.2	5035A 28.2020 880-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.103	103	0.109	108	70-130	6	35	mg/kg	12.29.2020 04:31	
Toluene	< 0.00200	0.0998	0.0952	95	0.0977	97	70-130	3	35	mg/kg	12.29.2020 04:31	
Ethylbenzene	< 0.00200	0.0998	0.0981	98	0.104	103	71-129	6	35	mg/kg	12.29.2020 04:31	
m,p-Xylenes	< 0.00399	0.200	0.199	100	0.207	102	70-135	4	35	mg/kg	12.29.2020 04:31	
o-Xylene	< 0.00200	0.0998	0.0982	98	0.102	101	71-133	4	35	mg/kg	12.29.2020 04:31	
Surrogate				1S Rec	MS Flag	MSD %Re		_	imits	Units	Analysis Date	
1,4-Difluorobenzene			1	02		101		70	-130	%	12.29.2020 04:31	
4-Bromofluorobenzene			1	12		110		70	-130	%	12.29.2020 04:31	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Project Manage:         CONCECN:         Let:         State			OCD: 9
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Project Manager J. 2056/DN. HEYTMAN, dr. 2.     Bitto::r admond     Tim, Project Manager J. 2057 (J. C. C. Standard, M. S. Standard, M.	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na	_	2 12 23
Protect Manager:         J.S.S.C.P.N.         Her. On Gund C.Z.         Bill for its information         Time Manager:         S.S.C.P.N.         Her. No. No. Provided and the set of the	And     Buy Ers     Due Date:       Lamp Blank:     Quote #:     Due Date:       Ves     No     Thermometer ID       Ves     No     Intermometer ID       Sampled     Sampled     Sampled       Intermode     Intermometer ID       Intermode     Intermometer ID       Ves     No     Intermometer ID       Sampled     Date     Intermometer ID       Intermode     Intermometer ID     Intermometer ID       Ves     Date     Intermometer ID     Intermometer ID       Site     Intermode     Sampled     Depth       Internet     Internet     Internet       Internet		13387
	Image: Second state     Due Date       Learner     Due Date       Femp Blank: $\langle Yes \rangle$ No     Wet Ice:       Ves     No     Image: Thermometer ID       Ves     No     Image: Total Contrainers:       Matrix     Date     Time       Matrix     Date     Time       Sampled     Sampled     Sampled       Sit     Intervention Factor:     -Q.7       Ves     No     I.1 Number of Containers       Ves     No     I.2.24     P.75-17       Sit     I.2.35     I-1.57     I       I.2.35     I.1.57     I     I       BTEX     (FRA 89421 B)	200 7 / 6040	MA
Project Manager     Jose Orn     HErnandez     Bill for, if allowed       Company Name     USP USA I/Ac.     Company Name     USP EALERAL       Project Name:     Siglip / Vic / A. S.     Company Name     USP EALERAL       Project Name:     CDU //     Final     City, State ZP     City, State ZP     City, State ZP       Project Name:     CDU //     Final     City, State ZP     City, State ZP     City, State ZP     Address:       Sampler Loeation     EALERAL     TV     PTT     No     City, State ZP     Ant VSIS REQUI       Project Number:     N/C     Final     City, State ZP     City, State ZP     Ant VSIS REQUI       Project Number:     N/C     Final     City, State ZP     City, State ZP     Ant VSIS REQUI       Sampler Loeation     EALERAL     City, State ZP     Rush:     No     Ant VSIS REQUI       Sample Loeation     EalerA     Correction Factor:     -0,-2     Correction Factor:     -0,-2       Sample Custody Salas:     Yes     No     Trade Containers     PS All All All All All All All All All Al	Add     Buy Ers     Due Date:       Lemp Blank:     Quote #:     Due Date:       Yes     No     Image: Thermometer ID       Ves     No     Image: Total Containers:     Image: Total Containers:       Matrix     Date     Time     Depth       S     IL/18[ $zg$ 1224     Ø.75     I       I     I.2.19     Ø.75     I.2.11     Number of Containers       BIFEX     (FRA 89/21 B)     BIFEX     (FRA 99/21 B)	13HW A	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Image: Second state     Due Date:       Legen by Cr3     Quote #:       Legen No     Wet Ice:       Yes     No       Ves     No       Matrix     Date       Total Contrainers:     I       Ves     No       Sampled     Sampled       Date     Time       Date     Time       Ves     No       Visit     Date       Total Containers:     I       Ves     No       Visit     Date       Time     Depth       Matrix     Sampled       Inc.     Inc.       Sitt/relize     Inc.       Inc.     Inc	SHIP	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Add Buy Cr3     Due Date:       1342_SETTLE     Quote #:       Lemp Blank:     (Ves) No       Ves     Date       Total Containers:     IP       IP     IP       Ves     IP       Ves     IP       IP	BHX 8	_
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Add Bullers     Due Date:       Carteria     Due Date:       Carteria     Correction Factor:       Vess     No       NA     Correction Factor:       Vess     No       NA     Total Containers:       Date     Time       Date     Time       Sampled     Sampled       Sampled     1224       Partix     Sampled       Date     Time       Depth     Depth       Size     1224       Partic     1234       Partic     14       Partic     1234       Partic     14       Partic     14	BHEF	-
Project Manager:     Cosc ph / Lermand c 2     Bit to: mathemitinity       Company Name:     USP USA Inc.     Company Name:     USP USA Inc.       Address:     SS/pp / North A St     Company Name:     UNX Energy       Address:     SS/pp / North A St     Address:     SS/SS Buenc, Viste, Dr.       Project Name:     Project Name:     Project Name:     Project Name:     UNX Energy       Project Name:     RDU II     Tum Anound     ress.     SS/SS Buenc, Viste, Dr.       Project Name:     RDU II     Tum Anound     ress.     SS/SS Buenc, Viste, Dr.       Project Name:     RDU II     Tum Anound     ress.     SS/SS Buenc, Viste, Dr.       Project Name:     RDU II     Tum Anound     ress.     SS/SS Buenc, Viste, Dr.       Sampler Same:     Analysis     Buenc, Uster, Dr.     Rush:       Sample Location Eddu, Grav, Hy     Sample Custody Seals:     Yes No     Tum       Sample Custody Seals:     Yes No     Tume     Buenc     Sample Custody Seals:     Yes No       BHtty S     Sample Custody Seals:     Yes No     Tume     Buenc     Sample Custody Seals:     Yes No       BHtty S     Sample Custody Seals:     Yes No     Sample Custody Seals:     Yes No     Sample Custody Seals:     Yes No       BHtty S     Sample Custody Sea	Add Bullers     Due Date:       Lemp Blank:     Quote #:       Lemp Blank:     Quote #:       Ves     No       Date     Time       Depth     Depth       Number of Containers       PH     (EPA       BTEX     (FPA       BTEX     (FPA       BTEX     (FPA	BITET	
Project Manager:     Joseph Hernandez     Bill to: If efficiency       Company Name:     USP USA Inc.     Company Name:     USP USA Inc.       Address:     \$300 North A St     Company Name:     USP USA Inc.       Project Name:     MSP USA Inc.     Company Name:     USP USA Inc.       Project Name:     MSP USA Inc.     Company Name:     USP USA Inc.       Project Name:     Millionad, TX     Project Name:     No     City, State ZIP:     Cal/Isba d, No     Recruy       Project Name:     No     Crunty     Project Name:     No     Routine     Project Name:     No     Routine       Sampler's Name:     Nn & Crunty     Rush:     Rush:     Code     No     No     No       Sampler's Name:     Nn & Correction Factor:     -O.     Teemonater ID     Rush:     Code     No     No       Sample Custody Seals:     Yes, No     Trata Containers:     PO     PO     PO     PO       Sample Custody Seals:     Yes No     Simpled     Simpled     Simpled     Simpled     No     Correction Factor:     -O.       Sample Custody Seals:     Yes No     Correction Factor:     -O.     PO     PO     PO       Sample Custody Seals:     Yes No     Simpled     Simpled     Simpled     PO<	Add     Buy Ers     Due Date:       1342_SETTL     Quote #:     Due Date:       1342_SETTL     Quote #:     Due Date:       Ves     No     Thermometer ID       Ves     No     I NIA       Ves     No     I NIA       Correction Factor:     -0.7       Ves     No     I NIA       Correction Factor:     -0.7       Sitz     I I I I I I I I I I I I I I I I I I I	BHAG	
Project Manager:     Dos.cp/n     HE/no.ndle 2     Bill to: (if different)     Time Name:     USP USA Inc.       Adress:     53/50     No.mb     A     Stress:     53/50     No.mb     No.mb       Project Mane:     USP USA Inc.     Company Name:     USP USA Inc.     Company Name:     UNX     Encry       Project Mane:     IS/50     No.mb     A     Stress:     S3/50     No.mb     Stress:     S3/55     Buenc, Visk, Dr.       Project Name:     INC.     A     Stress:     S3/55     Buenc, Visk, Dr.     Dr.       Project Name:     No.     INC.     Stress:     S3/55     Buenc, Visk, Dr.       Project Name:     No.     Inc.     Realitive:     City, State ZIP.     La/1shad, Nin Beach, R. (61) Bit       Sampler's Name:     No.     Buenc, Visk, Dr.     Nin Beach, R. (61) Bit     Buenc, Visk, Dr.       Sampler's Name:     Andress:     Visk, State ZIP.     La/1shad, Nin Beach, R. (61) Bit       Sample clustody Seals:     Yes, No.     Intermoneter ID     Buenc, Visk, Bit       Sample Clustody Seals:     Yes, No.     Intermoneter:     Die       Bit Bit Si     Sinchel Sampled     Sampled     Sampled     Sampled       Bit Bit Si     Sinchel Sampled     Sinchel Sampled     Sampled     Sample	Add     Bull     Correction     Fermo Blank:     Ces No     No       1     Correction     Fermo meter ID     Internometer ID       Vess     No     Internometer ID       Number of Containers     Internometer ID       Internometer     Internometer ID       Vess     No       Number of Containers     Internometer ID       Internometer     Internometer       Interno     Internome	Brite	
Project Manager:     Joseph     Hernandez     Bill to: (It different)     Time Ranger       Address:     33/b/p     North     A St     Company Name:     Mark       Phone:     29 (1)     1/n.c.     Company Name:     Mark     Sample Custody Seals:     Yes       Project Name:     RDU     1/n     Finality     City, State ZIP:     City, State ZIP	Image: Second State     Due Date       Legen No     Wet Ice:     Yes       Ves     No     Image: Im	BHD S	
Project Manager:     JOSCIN     Harnander:     Bill to: ittatissee       Gompany Name:     USD USA Inc.     Company Name:     Company Name:       Address:     33/b/b     No. +h. A St     Company Name:     WDX       Phone:     7.81     7.41     Address:     5.31.5       Phone:     7.81     7.2     7.2.2.7     Email:     City, State ZIP:     No. +K. A St       Project Name:     No. +h. A St     Address:     5.31.5     Buenc, Vi.s.th.     Dr.       Project Name:     No. +h. A St     City, State ZIP:     City, State ZIP:     City, State ZIP:     Dr. +h. A St       Project Name:     No.     -     Fanil:     Ver. noth. 4 St     Address:     5.31.5     Buenc, Vi.s.th.     Dr.       Sampler:     No.     No.     -     Turn Around     ms.     -     AnALYSIS REQUE       Sampler:     No.     No.     -     Buenc, Vi.s.th.     Dr.     -       Sample Custody Seals:     Yes, No.     -     -     -     -     -       Sample Custody Seals:     Yes, No.     -     -     -     -     -       Sample Custody Seals:     Yes, No.     -     -     -     -     -       Sample Custody Seals:     Yes, No.     -	Image: Second	BHTØS	
Project Manager:     JCSCph     Hcmandez     Bill to: if different     Tim Party Support       Adtress:     3500 North A St     Company Name:     USP USA Inc.     Company Name:     USP USA Inc.       Adtress:     3500 North A St     Company Name:     USP USA Inc.     Company Name:     USP Energy       Phone:     128 ) 782 - 232 q     Email:     City, State ZIP:     Callsback, FL (56) 88       Project Name:     RDU II     Tum Around     Vest Party S     City, State ZIP:     Callsback, Nun Se212 p       Project Name:     RDU II     Tum Around     Vest Party S     City, State ZIP:     Callsback, Nun Se212 p       Project Name:     N/a     Counterst     Vest Party S     City, State ZIP:     Callsback, Nun Se212 p       Sampler's Name:     N/a     Counterst     Vest Nun Se212 p     Nun Se212 p       Sampler's Name:     N/a     Counterst     Nun Se212 p       Post:     Name:     Routine     Post     Nun Se212 p       Sampler's Name:     And LYSIS REQUE     Nun Se212 p     Nun Se212 p       Sampler's Name:     And Lysis     Due Date:     Substantiants     And Lysis       Sample Custody Seals:     Yes No     Total Containers:     Po     Substantiants	Total Containers: Terra Bø(S(nod)) (ERA Bø(S(nod))) (ERA Bø(S(nod)) (ERA Bø(S(nod))) (ERA Bø(S(nod)) (ERA Bø(S(nod))) (ERA		
Project Name     USP USA Inc.     Bill to: (If different)     Tim     Project Nume:     USP USA Inc.       Address:     33bp     North: A St     Company Name:     WPX Energy       Phone:     73bp     North: A St     Company Name:     WPX Energy       Phone:     781 747 5     City. State ZIP:     Callsbad, N.M. S2 2.2       Project Name:     700 11     Tum Around     Free     Callsbad, N.M. S2 2.2       Project Number:     n/a     Name:     Sampler's Name:     Name:     Sampler's Name:       Sampler's Name:     Andress:     Due Caustry     Rush:     Rush:       Sampler's Name:     Andress:     Due Date:     Due Date:       PO#:     Mono:     City. State:     Due Date:       Sampler's Name:     Andress:     SS     Bank:       Cooler Custody Seals:     Yes No     Thermometer ID       Received Intact:     Yes No     Thermometer ID       Received Intact:     Yes No     SS	Correction Factor: - 0.7 Containers Containers Containers Containers Containers Containers Containers	Sample Custody Seals:	
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Project Manager:     Joseph Hermandez     Bill to: (If different)     Time Project Nume:     Loseph Hermandez       Company Name:     WSP USA Inc.     Company Name:     WSP USA Inc.     Company Name:     WR       Address:     33pp North A St     Company Name:     WR     Energy       City, State ZIP:     Midland, TX     497705     City, State ZIP:     Carlsbad, Nin Beach, PL (58) 198       Project Name:     Rollind, TX     497705     Email:     Joe Inf. State ZIP:     Carlsbad, Nin Beach, PL (58) 198       Project Name:     Rollind, TX     497705     Email:     Joe Inf. State ZIP:     Carlsbad, Nin Beach, PL (58) 198       Project Name:     Roll     Tum Around     Free     Carlsbad, Nin Beach, PL (58) 198       Sampler's Name:     N/a     Bull to: It different     Tum Around       Sampler's Name:     And Byler's and Byl	Quote #:     Due Date:       No     Wet Ice:       Yes     No       rs     %(S(nod))       21, B)	Received Intact:	
Project Manager:     Joseph     Hermandez     Bill to:     It attreemt     Tim Raker       Company Name:     WSP USA Inc.     Company Name:     WSP USA Inc.     Company Name:     WT     File (It different)     Tim Raker       Address:     33pp     North A St     Company Name:     WT     File (It different)     Tim Raker       City, State ZIP:     Micland, TK     H9TYCS     City, State ZIP:     Carlsbad, Nin 88120       Project Name:     RDU II     Email:     Vertice Instruction and etge usp. com traina, bygas on p. com       Project Number:     n/a     Bull to:     Tum Around     Project Name:     Anda byles       Project Location     Eddy.     Carlsbad, Nin 88120     AnaLYSIS REQUE       Sampler's Name:     Anal. byles     Rush:     Bill to:     Bill to:       SAMPLE RECEIPT     Temp Blank:     Vera Nin     Water     Bill to:     Bill to:	nt: Van he wester Due Date:	Temperature (°C):	
Project Manager:       Joseph Hermandez       Bill to: (if different)       Time Project Nume:       USP USA Inc.         Company Name:       WSP USA Inc.       Company Name:       WSP USA Inc.       Company Name:       WR Energy         Address:       3500       North A St       Company Name:       WR Energy       Address:       53/5       Buene Viste Dr.         Phone:       (281) 742 - 2329       Email:       jc: /nernandez       City, State ZIP:       Carlshad, Nin & Belling, User, Dr.         Project Name:       RDU II       Tum Around       Pres.       AMALYSIS REQUE         Project Location       Eday Bruth       Routine       Pres.       AMALYSIS REQUE         Sampler's Name:       Anna Byers       Due Date:       Buene       Buene       Buene         Project Location       Eday Bruth       Rush:       Buene       AMALYSIS REQUE	Quote #: Due Date:	SAMPLE RECEIPT	
Project Manager:       Joseph Hermandez       Bill to: (it different)       Time Project Nume:       USP USA Inc.         Company Name:       WSP USA Inc.       Company Name:       WSP USA Inc.       Company Name:       WPX Energy         Address:       3350       North A St       Company Name:       WPX Energy       Mill to: (it different)         City, State ZIP:       Midland, TX 79740       City, State ZIP:       Callsback, N. 1854.       Dr.         Phone:       (281) 742 - 2329       Email:       Sci. Ner nandet@usp.com/tanne.       WPX Energy         Project Name:       RDU II       Tum Around       Project Number:       N/a.       AnALYSIS REQUE         Project Location       Eddy Granty       Rush:       City in Analysis       Analysis Reque         Sampler's Name:       Anal. Buers       Due nergy       Due nergy       Due nergy	Due Data:	PO# nRm24	
Project Manager:       Joseph Hermandez       Bill to: (it different)       Time Revent       Time Routine         Company Name:       WSP USA Inc.       Company Name:       WSP USA Inc.       Company Name:       WR       Energy         Address:       3500 North A St       Company Name:       WSP Energy       Address:       53/S Blenc Viste Dr.         City, State ZIP:       Midland, TX 39740 S       City, State ZIP:       Cal/shead, Nin & 82120         Phone:       72 - 2329       Email:       Gity internance by comtained, by		Sampler's Name: Ann	
Project Manager:     Joseph Hermandez     Bill to: (it different)     Tim Participation       Company Name:     WSP USA Inc.     Bill to: (it different)     Tim Participation       Address:     3360 North A St     Company Name:     WPX Energy       Address:     3360 North A St     Company Name:     WPX Energy       Phone:     (281) 742 - 2329     Email:     Joscher nande 20 wsp. com-       Project Name:     RDU II     Tum Around     Pres.     ANALYSIS REQUE	Christian Investigation of the second	Project Location Edd	
Project Manager:       Joseph Hermandez       Bill to: (it different)       Time Project Name:       USP USA Inc.         Company Name:       WSP USA Inc.       Company Name:       WSP USA Inc.       Company Name:       WR Energy         Address:       3500       North A St       Company Name:       WR Energy         City. state ZIP:       Midland, TK 797405       City. state ZIP:       Carlsbad, Nin 82120         Phone:       (281) 742 - 2329       Email:       Vac Inc. nandet Eusp. comtanna. by e36 usp. com         Project Name:       RDU II       Tum Around       Tum Around	Routing Pres.	n	
Project Manager:       Joseph Hemandez       Bill to: (it different)       Tim Parlieury       Fundanter         Company Name:       WSP USA Inc.       Bill to: (it different)       Tim Parley         Address:       3500 North A St       Company Name:       WPX Energy         City, State ZIP:       Midland, TX 79775       City, State ZIP:       Darlshad, Nin Belly         Phone:       (281) 792 - 2329       Email:       We her man Area       Nin Belly	1) Turn Around		
Project Manager:       Joseph Hemandez       Bill to: (if different)       Tim Party (019) 020-2000 West Palm Beach, FL (581) 08         Company Name:       WSP USA Inc.       Bill to: (if different)       Tim Party Palmes         Address:       33/00       North A St       Company Name:       WPX Energy         City, State ZIP:       Midland, TX 79775       City, State ZIP:       North A St       City, State ZIP:	742-2329 Email: verhernander of the internation		
Company Name: WSP USA Inc. Address: 3300 North A St City State The City Sta	land, TX 79775 City, State ZIP: Carlshad Nin 88979	_	
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	Chain of Custody Work Order No: 10515		2 of

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Work Order UST/PST    PRP    Brow of Project: Level II    Level III    PS ss: EDD    ADap ADap ADap K Se Ag SiO2 Na Sr 163	WWW.XEDCO.com     Page       Work Order Comments     UST/PST PRP Brownfields RRC       # Project:     ADaPT D       Se:     EDD D       ADaPT D     Other       Se:     EDD D       ADaPT D     Other       None:     None:       None:     None:       HNO3:     HN       HNO3:     HN       HNO3:     HN       HNO3:     HN       HNO3:     HN       HNO3:     HN       HOL:     HL       NaOH:     Na       HOL:     HOL       HOL:     HOL       HOL     HOL <th>Product Name         Except h.         Except h.</th> <th></th> <th></th> <th></th> <th>0</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Product Name         Except h.				0						
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WSP USA Inc.     Company Name:     Vinx Kalley     Work Order       33&\$\vee Avec Avec A S+     Address:     53 S Buena vista Dr.     Program: UST/PST PRP Brow       Midda.nd. TX:     43 Types     City. State ZIP:     Curl Avec Avec Avec Avec Avec Avec Avec Avec	Tosep h. Hernound Z.     Bill to: (If different Time 2800 Tampa FL (61) 802-2000 Wiel Pain Beach, FL (66) 803-6701     WUX X8000.000       335/p     Alor AL     St     Company Name     Time P. [Calls]     Difference     Work Order       335/p     Alor AL     St     Address:     53 S     Such A. V. Istr. Dr.     Program: UST/PST [PRP]     Brow       Midland, TX     H3 TW     City, State ZIP:     Curl Spacial, N/N B52.2,0     N/N B52.2,0     State of Project:       RDU     II     Tim Around Array     Routine     Mit     Routine     Mit     Routine     Mit       Address:     S3 S     Buch A. Crou, At 2, 20, 20, 20, 20, 20, 20, 20, 20, 20,	Midland TX (42) 7004-04 00 FL, Jack 2000 San Annos, TX (210) 500-304 Turnue, TA, (210) 500-30	j			×	1 ,1-54%	1245		RHIN	+	
WSP USA Inc.     Company Name:     Linn Kalley     Work Order       336/9     Ab. A. S.+     Address:     531.5     Buena Viste Dr.     Program: ustripst   PRP   Brow       Midland TX:     49.74 S.     City, State ZP:     Cal/sback     Juin B8(19)     Program: ustripst   PRP   Brow       Address:     531.5     Buena Viste Dr.     Program: ustripst   PRP   Brow     State of Project:       Ability 72 - 73.29     Email:     jcc.herrounder     Provide     Address:     Cal/sback     Juin B8(12)       Ability 72 - 73.29     Email:     jcc.herrounder     Provide     Address:     Cal/sback     Juin B8(12)       Ability 72 - 73.29     Routine     No     Provide     Proventing:Level II     Level III       Ability 72 - 73.29     Routine     Provide     Address:     Sale     Provide       Ability 72 - 73.29     Routine     Provide     Provide     Analysis     Provide       Ability 74     Rush:     Routine     Provide     Analysis     Provide       Ability 72 - 73.29     Due Date:     Provide     Provide     Analysis       Ability 72 - 73.29     Routine     Provide     Analysis     Provide       Ability 72 - 73.29     Reparting:Level II     Provide     Analysis     Provide       Ability 7	Promin.X2 (400) 355-0000 Allana.GA (770) 44-8800 Tampa FL (813) 620-2000 West Paim Beach, FL (613) 688-671         Work Status 2000 West Paim Beach, FL (613) 688-671         Work Status 2000 West Paim Beach, FL (613) 688-671         Work Status 2000 West Paim Beach, FL (613) 688-671         Work Order           33560         No. 47. A St         Gompany Name:         WPX Energy         WPX Energy         Program: UST/PST PRP    Brow           MidLand, TX 39178         Email:         icc. hc. nr.nde 260.cs/nt-t_an/c. Mg/cs. 2000         No 100    100	International i	ample Comments	00		BT		-	15	DHA	-	
WSP USA Inc.     Company Name:     Link Kalley     Work Order       33\$\$\$\$\$\$ No ATX 74775     City, state ZIP:     Curlsback, NA SB2120     Program: USTIPST[] PRP[] Brow       Midland, TX 74776     Email:     icc. her nendel Zilly, state ZIP:     Curlsback, NA SB2120     Program: USTIPST[] PRP[] Brow       RDU II     Turn Around     Turn Around     Prove     Cellus plaint     Brow     Bending: Level III [] Level III [] PS       RDU II     Turn Around     Prost     Cellus plaint     Brow     Deliverables: EDD [] ADAP       Annva Byrcs:     Due Dale:     Rush:     Brow     AILYSIS REQUEST     AILYSIS REQUEST       City II     Temp Blank:     Correction Factor: -O.2     of Containers     B & A     B & A       Is:     Yes No     Total Containers:     D & A     B & A     E	Phoemix AZ (480) 365-0900 Allamia, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (361) 889-8701     WMX Xenco. com       Joseph Her nouncle 2     Bill to: (if affrement     Jinn Raley     Work Order       336/9     Mo-An. A S+     Address:     5315     Bule colspan="2">Built to: (if affrement     Jinn Raley     Work Order       336/9     Mo-An. A S+     Address:     5315     Bule colspan="2">Built to: (if affrement     Jinn Raley     Work Order       2811     782     232.9     Email:     jcc. her recorde 26/usp.com     Vista: Dr.     State of Project:       RDU     II     Tum Around     Imme     Vista: Colspan="2">AnALYSIS REQUEST       n/a     Rush:	Project Namager     To:Seph     Herinical (Tri)     Maind, TX (23) 704-540     Elli to: Irrainend     Tripel (20) 58-300     Maind, TX (20) 502-300       Project Namager     Gompany Name     WSP USA /n.c.     Elli to: Irrainend     Tripel 49800     Tampa FL (31) 800-2000     Maind, TX (20) 503-341     Works Order       Address:     SJSD /// N.c.     Company Name     WSP USA /n.c.     Company Name     WSP USA /n.c.     Work Order       Project Name     WS1 // TZ - 23.24     Enalti: jcc./nc./nc./d. 2     City, State ZIP:     U.c./n./ SB (2.2)     Work Order       Project Name:     RDU //     Tru     Address:     SJS S. Buch A.V. (360) 74-20     State of Project:       Project Name:     N/n     Carty, State ZIP:     U.c./n.// SB (2.2)     Project:     Reporting:Level II [] PS       Sampler's Name:     M/n/N (Sky C.S.)     Rush:     Rush:     Rush:     Project:     Reporting:Level II [] PS       Sampler's Name:     M/n/N (Sky C.S.)     No     Trum Around     Project:     AnALVSIS REQUEST     ADaP       Received Intact:     Yes, No     Thermometer In     Box     Sign (Shi No)     Box     Sign (Shi No)     AnALVSIS REQUEST       Sampler's Name:     Yes, No     Thermometer In     Box     Sign (Shi No)     Box     Sign (Shi No)     Box       Gooler Custody	received by 4:00pm			Ex		Date Time	-	Sample Identification	Lab	
WSP USA Inc.     Diff. IO: (It different)     Jinn Kalley       3360 No. Ah. A St     Company Name:     WPX Energy       Midland TX 7970 S     City, State ZIP:     Calless:       2811 782 - 2329     Email:     jcc. herrande 20 usp. cont. Barran Vista. Dr.       RDU II     Turn Around     Pres.     AALYSIS REQUE       Anna Lycs     Routine     Rush:     Code       Edda, Conunty     Rush:     Due Date:     Due Date:       Shuff 3125874     Quote #:     Due Date:     Due Date:       Temp Blank:     Yes No     Yes No     Yes No     Sup Rector       att:     Yes No     Thermometer ID     Sup Rector:     Sup Rector:	Phoenix,AZ (480) 335-0900 Allania,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 68       Jeseph, Hernancle 2     Bill to: (If different)     Tim Raley       WSP USA Inc.     Company Name:     WPX Energy       3360 No An. A St     Address:     5315 Buena Viste. Dr.       Midland, TX H9 HV S     Email:     jcc. herrande 20 usp.em. Kape. Nate 210       2811 HV Turn Around     Turn Around     Pres.       ADU II     Turn Around     Pres.       ADU II     Turn Around     Pres.       ANALYSIS REQUE     ANALYSIS REQUE       MALYSIS REQUE     ANALYSIS REQUE       MALYSIS REQUE     Thermometer 1D       art:     Yes, No     T- WW, OOT       art:     Yes, No     T- WW, OOT	Including       Midland, TX (42) 704-5440       Else (12) 585-343       Lubook, TX (210) 599-3334         Inc.       Phoenix, A2 (480) 355-000       Allanta, GA (770) 449-8800       Tampa, FL (313) 620-2000       West Palm Beach, FL (581) 685-3443         Inc.       SSE (200       Allanta, GA (770) 449-8800       Tampa, FL (313) 620-2000       West Palm Beach, FL (581) 685-3443         Inc.       SSE (200       Allanta, GA (770) 449-8800       Tampa, FL (313) 620-2000       West Palm Beach, FL (581) 685-3443         Inc.       Company Name:       WPX       Fall Ey       Company Name:       WPX       Fall Ey         Inc.       SSE (200       Midland, TX (319) 744-200       Tampa, FL (313) 620-2000       West Palm Beach, FL (581) 685         Inc.       Tomany Name:       WPX       Fall Ey       Company Name:       WPX       Fall Ey         Inc.       Tom A       St       St       St       Bure na. V istr. Dr.       No         Inc.       Tom A       Rush:       Inc.       Control on the resolution of the resolu	ts the day recevied by the	TAT star		(E	"	Total Containers:			11	
WSP USA Inc.     Company Name:     WPX Energy       33\$\$\$\$\$\$ No Ah. A St     Adress:     53\$\$ Buena Viste Dr.       Midland TX 79785     City, State ZIP:     Callsback WPX Energy       2811 782 - 2329     Email:     icc. herrande 20 usp.co.nt. anra. by ers.     B220       RDU II     Turn Around     Pres.     Callsback WPX Energy     AnALYSIS REQUE       RDU II     Turn Around     Pres.     ANALYSIS REQUE       A.a.     Routine     No     Pres.     ANALYSIS REQUE       A.a.     Rush:     Due Date:     Due Date:     Due Date:       Temp Blank:     Thermometer ID     B     B     B       att     Yas     No     Thermometer ID     B     B	Phoenix, AZ (480) 355-0600     Allanta, GA (770) 449-8800     Tampa, FL (813) 620-2000     West Palm Beach, FL (661) 68       Joseph Hernandu Z     Bill to: (If alfrennt)     Tim Pa Ley     Jim Pa Ley       WSP USA Inc.     Company Name:     WPX Energy     Saldpa No. An. A St     Address:     S315     Buena, Vista, Dr.       Midland, TX     HT PT S     City, State ZIP:     Callsbeach, FL (661) 68       V2811     HZ - 2324     Email:     jcc. her nande 26 usp. ceint anna. Naters Palm Beach, FL (661) 68       Ana     Routine     Main     Address:     S315     Buena, Vista, Dr.       RDU II     Turn Around     Turn Around     Pres.     Callsbeach, WN 88 (2.0)       Anarya     Routine     Main     Sode     AnaLYSIS REQUE       Edda, Conunting     Rush:     Sode     Sode     Sode       Edda, Conunting     No     Wet Ice:     Wet Ice:     Sode     Sode       Sin 22.0     Thermometer ID     Sode     Sode     Sode     Sode	Milland, TX (43) 704-5440 EL Paso, TX (915) 365-300 San Antonio, TX (210) 509-3334       Milland, TX (43) 704-5440 EL Paso, TX (915) 365-343 Lubbock, TX (806) 794-1286 Crastbad, NM (432) 704-540 EL Paso, TX (915) 365-343 Lubbock, TX (806) 794-1286 Crastbad, NM (432) 704-540 EL Paso, TX (915) 365-0900 Allanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (661) 68       Step USA Inc.       Step USA Inc.       Company Name:       WPX Energy       S36/P No Ant. A St       Mill to: (It different)       Antipitit is colspan="2">Antipitit is colspan="2"	ate+ NaOH: Zn	Zn Acet		RA	0.2	-	-			
WSP USA Inc.     Omnoritienterently     Jim Kalley       33\$\$\$\$\$ No Ah. A St     Gompany Name:     WPX Energy       33\$\$\$\$\$\$ No Ah. A St     Address:     5315 Buena Vista Dr.       Midland TX 79785     City, State ZIP:     Callsback, UNA 88220       2811 782 - 2329     Email:     jcc. herrande 20usp.cunt ance. byers 0 wsp.su       RDU II     Turn Around     Pres.     ANALYSIS REQUE       Anva     Carun-Aty     Rush:     Due Date:       City State ZIP:     Due Date:     S     S       Midda Stress No     Wet Ice:     Yes     No	Phoemix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 68       Joseph Hernandt, 2     Bill to: (It altinent)     Jim Raley       WSP USA Inc.     Company Name:     WPX Energy       3360 No An A St     Address:     53 (S Buena Vista Dr.       Midland, TX H9TV S     Email:     jcc.hesrande 20 usp.comt anca. by et3 ausp.st.       2811 716 2 - 23 29     Email:     jcc.hesrande 20 usp.comt anca. by et3 ausp.st.       RDU II     Turn Around     Pres.     ANAL VSIS REQUE       Ava     Routine     No     No       Edds, Corun-Hy     Due Date:     S     S     S       Temp Blank:     Ouote #:     Due Date:     S     S     S	CRATICE     Midland, TX (42) 704-540 EL Paso, TX (915) 585-343     Lubbock, TX (210) 502-0300     San Antonio, TX (210) 509-3334       Midland, TX (42) 704-540 EL Paso, TX (915) 585-343     Lubbock, TX (806) 794-1296 Crastbad, NM (432) 704-5       Toseph Hernaund 2     Bill to: (If aliferent)     Tim Raley       MSP USA Inc.     Company Name:     WPX Energy       3360     No Ath. A St     Address:     5315     Buena V i sta. Dr.       Midland, TX 79775     Email:     jcc. he: nonde 260 usp coint gync, hypers (outp. sta. Dr.     No       Midland, TX 79776     Email:     jcc. he: nonde 260 usp coint gync, hypers (outp. sta. Dr.     No       RDU II     Tum Around     Pres.     Address:     S3 S     Suena V i sta. Dr.       RDU II     Tum Around     Pres.     Address:     S3 S     Suena V i sta. Dr.       RDU II     Tum Around     Pres.     Analysis REQUE       Addressite S8 Rice     Due Date:     S     S     S     S       Constant     Due bate:     S     S     S     S     S       Colspan="2">Thermometer In	Na	NaOH:		18	Î	T-WW.E	1	5		
WSP USA Inc.     Dim No: It anmentil     Jun Kalley       33\$\$\$\$ Workshamma     Same     WPX Energy       33\$\$\$\$\$\$ No rath A St     Address:     \$315 Buena Vista Dr.       Midland TX 797\$\$     Email:     icity. state ZIP:     \$215 Buena Vista Dr.       RDU II     Turn Around     Pres.     \$215 Buena Vista Dr.       RDU II     Turn Around     Pres.     \$200 Spice in the approximate state st	Phoemix,AZ (480) 355-0800 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (661) 68       Joseph Hernander     Bill to: (it attinent)     Jim Raley       WSP USA Inc.     Bill to: (it attinent)     Jim Raley       3360 North A St     Company Name:     WPX Energy       Midland TX H978 S     city, state ZIP:     Callsback, NN 88210       2811 7K 2 - 2329     Email:     jce. Interrander 20 usp.cumf     Jum 88210       RDU II     Turn Around     Pract     ANALYSIS REQUE       Routine     Rush:     Code     S. J. B.     ANALYSIS REQUE       Bin/2 3/12 S8746     Quote #:     Due Date:     S. J. B.     S. J. B.	Invariant, TX (322) 704-5440 EL Paso, TX (374) 902-0300 San Antonio, TX (210) 509-3334         Midland, TX (322) 704-5440 EL Paso, TX (315) 585-3443 Lubbock, TX (806) 794-1296 Crasibad, NM (432) 704-5         Joseph Hernonodu Z       Bill to: (II different)       Tim Ratey         MSP USA Inc.       Company Name:       WPX Energy         Midland, TX (320) 355-0900 Allanta, GA (770) 49-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 88         MSP USA Inc.       Company Name:       WPX Energy         MADU II       Tim Rate ZIP:       Carisbad, NM (432) 704-540         MADU II       Tim Rate ZIP:       Carisbad, NM 88 (21,0)         Address:       S 31 S Buena v:str. Dr.         MAL YSIS REQUE         ANALYSIS REQUE         ANALYSIS REQUE         MALYSIS REQUE         Malking Righ	Г	HCL: H		7	ON Cal	2.1		Temperature (°C): 1.2		
WSP USA Inc.     Company Name:     Jim Kalley       33\$\overline{9} North A St     Address:     \$315 Buena Vista Dr.       Midland TX 797\$\overline{9} Fate ZIP:     City. State ZIP:     Carlsback Nin 88220       ID811 782 - 2329     Email:     jce.herrande 20uspuent avra. byers avera.       RDU II     Turn Around     Pres.     ANALYSIS REQUE       Anna Byers     Due Date:     \$000     \$000	Phoenix,AZ (480) 355-0900 Atlante,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (661) 68       Image: Separation of the second of t	Image: Control ( $x$ (43)       Image: Control ( $x$ ( $x$ (43)       Image: Control ( $x$	H2	H2S04		21			ž	AMPLE RECEIPT	S	
WSP USA Inc.     Dill to: (r dimenti)     Jim Kalley       : 33\$\$\vee No A Inc.     Company Name:     WPX Energy       : 33\$\$\vee No An A St     Address:     5315     Buena Vista Dr.       Midland TX 79775     City. State ZIP:     Carlsbad, NN 88279       (281) 762-2329     Email:     jce.hernande 2015 p.comt anders durg. by 88279       RDU II     Tum Around     Pres.       Anna Gyress     Rush:     S	Phoenix,AZ (480) 355-0900 Atlante,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (661) 68       Image: Separation of the second color of the	Image: Control of the second secon	HN	HNO3:		B			258716	PO #: NRW2\$34		
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WSPUSA Inc.     Company Name:     Jim Kaley       3360 North A St     Company Name:     WPX Energy       Midland TX 7974 S     City, State ZIP:     64/15bad, Nin 88220       (281) 762 - 2329     Email:     jce.heronde 20 usp.cont anna. byers ausp.cont       RDU II     Turn Around     Pres.     ANALYSIS REQUE	Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 68       Joseph Hernandez     Bill to: (It different)     Jim Raley       WSP USA Inc.     Bill to: (It different)     Jim Raley       3360 North A St     Company Name:     WPX Energy       Midland TX 79745     City, State ZIP:     Curlsback, July 88220       (281) 782 - 2329     Email:     jce.hernandezQusp.ent.aura, by ers. eusp.ex       RDU II     Turn Around     Pres.     ANALYSIS REQUE	Image: Midland, TX (43) 704-540     Enso, TX (915) 585-343     Lubock, TX (806) 794-1296     Crasibad, NM (432) 704-540       Image: Midland, TX (43) 704-540     El Paso, TX (915) 585-343     Lubock, TX (806) 794-1296     Crasibad, NM (432) 704-540       Image: Midland, TX (432) 704-540     El Paso, TX (915) 585-343     Lubock, TX (806) 794-1296     Crasibad, NM (432) 704-540       Image: Midland, TX (430) 355-0900     Atlanta, GA (770) 449-8800     Tampa, FL (813) 620-2000     West Palm Beach, FL (561) 68       Image: Midland, TX (430) 355-0900     Atlanta, GA (770) 449-8800     Tampa, FL (813) 620-2000     West Palm Beach, FL (561) 68       Image: Midland, TX (430) And the company Name: Image: I	Me	MeOH:			X	Duch	Community	-		
WSPUSA Inc.     Company Name:     Lim Kaley       33B\$     North A St     Company Name:     WPX Energy       Midland, TX 797\$     St     Address:     5315 Buena Vista Dr.       [281] 782-2329     Email:     jce.hernande 20usp.co.ht.anna. byers @wsp.co.ht.       RDU II     Turn Around     Turn Around	Phoenix,AZ (480) 355-0800 Allanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (661) 68       Joseph Hernanduz     Bill to: (If different)     Jim Raley       WSP USA Inc.     Bill to: (If different)     Jim Raley       3360 North A St     Company Name:     WPX Energy       Midland, TX 79 TV S     City, State ZIP:     Callsback, NN 88220       (281) 782 - 2329     Email:     jce.hernande 2005 Juint anne, where a vista of wishers	Image: Construction of Constructing Construction of Construction of Construction of Construct	Preservative Cod		ANALTON REQU		3	Routing				
USPUSA Inc. Company Name: WPX Energy 3360 North A St Company Name: WPX Energy Midland TX 79785 City, State ZIP: Carlsbard, WIN B8270 (281) 782-2329 Email: joe.herrande 2015 Journ Barra, byters a wsp. on	Phoenix,AZ (480) 355-0800 Allanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 68       Joseph Hernanduz     Bill to: (If alfinent)     Jim Raley       WSPUSA Inc.     Bill to: (If alfinent)     Jim Raley       3360 No.An. A St     Company Name:     WPX Energy       Midland, TX 79745     City, State ZIP:     Callsback, Nin BB210       (281) 762-2329     Email:     jce.hernande 20 usp.co.ht. Burna, byters a with solution	Image: Contract of the contra	Oulei,				rn Around	Tu	1			
MSPUSA Inc. Company Name: WPX Energy 3360 North A St Address: 5315 Buena Vista Dr. Midland TX 79785 City, State ZIP: Carlsbard, WM 88220	Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 88       Joseph Hernandur     Bill to: (If different)     Jim Raley       WSPUSA Inc.     Bill to: (If different)     Jim Raley       3360 No.An.A St     Company Name:     WPX Energy       Midland, TX 79745     City, State ZIP:     Callsback, WM 88220	Image: Company Name:     Midland, TX (432) 704-540     Elevent     Midland, TX (432) 704-540     Elevent     S85-343     Lubbock, TX (806) 794-1296     Grasibad, NM (432) 704-540       Isseph     Hernandur, TX (432) 704-540     Elevent     Image: Transpare (170) 449-8800     Tampa, FL (813) 620-2000     West Palm Beach, FL (561) 680       WSPUSA Inc.     Bill to: (If different)     Image: Transpare (1813) 620-2000     West Palm Beach, FL (561) 680       3360     No.4n. A     St     Company Name:     WPX     Energy       Midland, TX     49.745     City, State ZIP:     Callsback, NM 880220     Dr.		Deliverables: EDD ADaPT		edduspicen	4.		16-2-23-2	(10)		
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WSPUSA INC. Company Name: WPX Energy	Joseph Hernandu Z     Bill to: (If different)     Jim Raley       WSPUSA Inc.     Company Name:     WPX Energy	Instruction         Midland,TX (432) 704-5440         L Paso,TX (915) 585-3443         Lubbock,TX (806) 794-1296         Crastbad, NM (432) 704-5440           Instruction         Midland,TX (432) 704-5440         EL Paso,TX (915) 585-3443         Lubbock,TX (806) 794-1296         Crastbad, NM (432) 704-5400           Instruction         Midland,TX (432) 704-5440         EL Paso,TX (915) 585-3443         Lubbock,TX (806) 794-1296         Crastbad, NM (432) 704-5           Instruction         Midland,TX (430) 355-0900         Atlanta,GA (770) 449-8800         Tampa,FL (813) 620-2000         West Palm Beach, FL (561) 685           WSP USA         Inc.         Bill to: (If different)         Tim Fales         WPX         Energy	RRC Superfun	State of Project:	Vista	5315	Address	1 St	Nort			
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Final 1.001

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### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 12.18.2020 03.51.00 PM	Air and Metal samples Ac	ceptable Range: Ambient					
Work Order #: 681880	Temperature Measuring d	evice used: T_NM_007					
Sample Rec	eipt Checklist	Comments					
#1 *Temperature of cooler(s)?	1						
#2 *Shipping container in good condition?	Yes						
#3 *Samples received on ice?	Yes						
#4 *Custody Seals intact on shipping container/ cooler?	Yes						
#5 Custody Seals intact on sample bottles?	Yes						
#6*Custody Seals Signed and dated?	Yes						
#7 *Chain of Custody present?	Yes						
#8 Any missing/extra samples?	Νο						
#9 Chain of Custody signed when relinquished/ received?	Yes						
#10 Chain of Custody agrees with sample labels/matrix?	Yes						
#11 Container label(s) legible and intact?	Yes						
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.					
#13 Samples properly preserved?	Yes						
#14 Sample container(s) intact?	Yes						
#15 Sufficient sample amount for indicated test(s)?	Yes						
#16 All samples received within hold time?	Yes						
#17 Subcontract of sample(s)?	No						
#18 Water VOC samples have zero headspace?	N/A						

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 12.18.2020

Checklist reviewed by: Jessica Kramer

Date: 12.28.2020

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	45626
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
rhamlet	WPX's deferral requests to defer the remaining residual impacts within the tank battery earthen containment during any future major deconstruction/alteration and/or abandonment, whichever occurs first. The areas requested for deferral is identified on the site map as "FS02", "FS04", "FS05", "FS06", and "FS07". The areas have been delineated and documented in the report. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	1/13/2022

Action 45626



APPENDIX D

Photographic Log

Released to Imaging: 3/16/2023 2:29:41 PM



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

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### **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	140553
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	WPX's deferral requests to defer the remaining residual impacts within the tank battery earthen containment during any future major deconstruction/alteration and/or abandonment, whichever occurs first. The areas requested for deferral is identified on the site map as "FS02", "FS04", "FS05", "FS06", and "FS07". The areas have been delineated and documented in the report. At this time, OCD approves the request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. This is a Federal site and will require like approval from BLM.	3/16/2023
bhall	Please disregard the previous rejection of this application.	3/16/2023

CONDITIONS

Action 140553