Oil Conservation Division

Incident ID	NAPP2121445163
District RP	
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## Closure

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

Closure Report Attachment Checklist: Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: <u>Adrian Baker</u>	Title: Environmental Coordinator
Printed Name: <u>Adrian Baker</u> Clobrian Bakes Signature:	Date:10/20/2021
email: <u>Adrian.Baker@exxonmobil.com</u>	Telephone:432-263-3808
OCD Only	
Received by: <u>Robert Hamlet</u>	Date: <u>12/1/2021</u>
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>12/1/2021</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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

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

)

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Incident ID	NAPP2121445163
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## **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email shelby.pennington@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

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

Latitude 32.27695

(NAD 83 in decimal degrees to 5 decimal places)

· . . 1

-103.94264

Site Name Remuda 100	Site Type Tank Battery
Date Release Discovered 7/26/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
Е	25	238	29E	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) 0.18	Volume Recovered (bbls) 0.00
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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 Produc third-p	tion separator and heater treater dumps malfunctioned, arty contractor has been retained for remediation activit	causing a small fire from low pressure flare. A ies.

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1 450	-

NA

#### Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? X Yes No	If YES, for what reason(s) does the responsible party consider this a major release? Fire at facility.
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Bratcher, Mike, EMNRD; emily.hernandez@state.nm.us; Mann, Ryan; on Tuesday, July 27, 2021 9:25 AM via

#### **Initial Response**

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

 $\checkmark$  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:	Title:
Signature: alwin Baks	Date:
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
OCD Only	
Received by: Ramona Marcus	Date: <u>8/2/2021</u>

#### NAPP2121445163

Location:	Remuda 100		
Spill Date:	7/26/2021		
	Area 1		
Approximate A	rea =	1615.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.25	inches
Average Porosity Factor = 0.03			
	VOLUME OF LEAK		
Total Crude Oil	=	0.18	bbls
Total Produced Water = 0.00		bbls	
	TOTAL VOLUME OF LEAK		
Total Crude Oil = 0.18		bbls	
Total Produced Water = 0.00		bbls	
	TOTAL VOLUME RECOVERED		
Total Crude Oi	=	0.00	bbls
Total Produced	l Water =	0.00	bbls

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:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	39296
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	8/2/2021

CONDITIONS

Page 540 f /74

Action 39296

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

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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

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	39287
	Action Type:
	[NOTIFY] Notification Of Release (NOR)
QUESTIONS	
Location of Release Source	
Please answer all of the questions in this group.	
Site Name	Remuda 100 Tank Battery
Date Release Discovered	07/26/2021

State

Incident Details

Surface Owner

Please answer all of the questions in this group.		
Fire		
Yes		
No		

#### Nature and Volume of Release

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Separator   Crude Oil   Spilled: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	<ul> <li>Incident Type is reported as fire</li> <li>This release resulted in a fire or was the result of a fire</li> </ul>
If YES, was immediate notice given to the OCD, by whom	Adrian Baker
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher, EMNRD, EHernandez, Ryan Mann
If YES, was immediate notice given to the OCD, when	07/27/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc)	email

#### Initial Response

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

 The source of the release has been stopped
 True

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

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

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

 If all the actions described above have not been undertaken, explain why
 Not answered.

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

QUESTIONS

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Action 39287

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

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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

ACKNOWLEDGMENTS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	39287
	Action Type:
	[NOTIEV] Notification Of Release (NOR)

#### ACKNOWLEDGMENTS

I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.

I acknowledge that upon submitting this application, I will be creating an new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
 I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action",

pursuant to NMAC 19.15.29.

certain release notifications and perform corrective actions for releases which may endanger public health or the environment.

I acknowledge the fact that 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.

1 acknowledge the fact that, 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.

#### ACKNOWLEDGMENTS

Action 39287

Page 7 26 /71

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

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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:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	39287
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

-

Created By	Condition	Condition Date
system	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/2/2021

CONDITIONS

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Action 39287

Oil Conservation Division

	Page 9 of
Incident ID	NAPP2121445163
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### 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

Page 3

- Data table of soil contaminant concentration data
- $\square$  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: 10/21/2	021 1:06:07 PM State of New Mexic				<b>Page 10 of 71</b>
				Incident ID	NAPP2121445163
Page 4	Oil Conservation Divi	ision		District RP	
				Facility ID	
				Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations. Printed Name: Signature: email: <u>Adrain.Bal</u>	rmation given above is true and complete required to report and/or file certain rele nent. The acceptance of a C-141 report 1 ate and remediate contamination that pos f a C-141 report does not relieve the ope <u>Adrian Baker</u> <u>Mon Bakes</u> <u>ker@exxonmobil.com</u>	ease notifications by the OCD doe se a threat to gro rator of responsi	s and perform co s not relieve the bundwater, surfa- ibility for compl Environmen <u>10/20/2021</u>	rrective actions for rele operator of liability sho ce water, human health iance with any other feo tal Coordinator	ases which may endanger ould their operations have or the environment. In deral, state, or local laws —
OCD Only					
Received by:			Date:		

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Oil Conservation Division

Incident ID	NAPP2121445163
District RP	
Facility ID	
Application ID	

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## Closure

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

<b><u>Closure Report Attachment Checklist</u>: Each of the following i</b>	tams must be included in the closure report
	-
$\square$ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:Adrian Baker	Title: Environmental Coordinator
Printed Name: <u>Adrian Baker</u> Clobrian Bafes Signature:	Date:10/20/2021
email: <u>Adrian.Baker@exxonmobil.com</u>	Telephone:432-263-3808
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

WSP USA

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

October 20, 2021

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

#### RE: Closure Request Remuda 100 Incident Number NAPP2121445163 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Remuda 100 (Site) in Unit E, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil flare fire at the Site. Based on field observations, site assessment activities, and soil sample analytical results, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2121445163.

#### **RELEASE BACKGROUND**

On July 26, 2021, the production separator and heater treater dumps malfunctioned, causing the release of approximately 0.18 barrels (bbls) of crude oil through the flare stack, which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 27, 2021. A Release Notification Form C-141 (Form C-141) was submitted on August 2, 2021 and the release was assigned Incident Number NAPP2121445163.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During January 2021, WSP installed a soil boring (C-04494) within 0.5 miles of the Site utilizing a truck-mounted sonic drill rig. Soil boring C-04494 was drilled to a depth of 105 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 0.25 miles southeast of the Site. The borehole was left

vsp

District II Page 2

open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet. The borehole was properly abandoned with hydrated bentonite chips. The location of borehole C-04494 is provided on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 0.58 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

#### **CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

#### SITE ASSESSMENT ACTIVITIES

On September 16, 2021, WSP personnel visited the Site to evaluate the flare fire release extent based on information provided on the Form C-141, visual observations, and information provided by on-site XTO personnel. Five potholes (PH01 through PH05) were advanced using a track-mounted backhoe to a depth of 2 feet bgs near the flare stack. Delineation soil samples were collected from the potholes from depths of approximately 1-foot and 2 feet bgs to assess for the presence or absence of impacted soil. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 1. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the site visit and a photographic log is included in Attachment 2.



District II Page 3

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

#### SOIL ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

#### **CLOSURE REQUEST**

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the flare fire release event at the Site. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests NFA for Incident Number NAPP2121445163.

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

Sincerely,

WSP USA Inc.

Kalei Jenningz

Kalei Jennings Associate Consultant

Ashley L. ager

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

cc: Adrian Baker, XTO Ryan Mann, New Mexico State Land Office

Attachments:



District II Page 4

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Lithologic/Sampling Logs
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports

# FIGURES

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## TABLES

**Released to Imaging: 12/1/2021 3:36:39 PM** 

.

#### Table 1

#### Soil Analytical Results Remuda 100 Incident Number : NAPP2121445163 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
<b>Delineation Samples</b>										
PH01	09/16/2021	1	<.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	557
PH01A	09/16/2021	2	<.00202	<0.00403	50.3	<50.0	<50.0	50.3	50.3	584
PH02	09/16/2021	1	<.00200	<0.00401	118	<49.9	<49.9	118	118	493
PH02A	09/16/2021	2	<.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	256
PH03	09/16/2021	1	<.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	334
PH03A	09/16/2021	2	<.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	613
PH04	09/16/2021	1	<.00199	<0.00398	76.1	<49.9	<49.9	76.1	76.1	613
PH04A	09/16/2021	2	<.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	580
PH05A	09/16/2021	1	<.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	409
PH05A	09/16/2021	2	<.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	200

#### Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

_			_						BH or PH Name:	Date:
					WS	<b>PUSA</b>			BH01 (C-04494)	11/18/2020, 12/02/20, 01/05/2021
				5	08 West	Stevens S	Street		Site Name:	Remuda North 25 Observation Well
				Car	Isbad, Ne	w Mexico	88220		RP or Incident Numbe	
									LTE Job Number:	TE012919039
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic
Lat/Lo	na:				Field Scre		-		Hole Diameter:	Total Depth:
	0					0			6.25", 4.25"	105'
Comm			field of	rooningo, D	m, bala					
Lithoic	ogy remark	s only. No	tiela so	reenings: D	ry noie	1	1	1		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithc	ology/Remarks
D			Ν			1	SP-SC			
					_	_				
					-	2				ly graded, fine grain, Clay (10% clay),
					-	3		some roo	ots, no stain, no odor	
					-	- 3				
					-	4				t brown, poorly graded, very fine - fine
D			Ν		-	Ľ	CCHE	grain, so	me rounded caliche	pebbles, no stain, no odor
						5				
					-	6		1-9' · CA	LICHE dry light brow	wn-tan, poorly consolidated, sub-
					-	0				gravel, very silty, gradational
					-	7		reanded		gravel, very enty, gradational
					_			0-14' · AI	oundent sub-round c	aliche gravel
					_	8				-
					-	0		14-19' : \$	Some sub-angular ca	aliche gravel and pebbles
					-	9		19-24' : /	Abundant sub-angula	ar caliche gravel and pebbles,
					-	10		moderate	ely consolidated	
					_					
					_	11				
					-	10				
					-	12				
					-	13				
					-	- 10				
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					_	24		]		
D			Ν		-	05	CL			
						25				

		_	_		MC				BH or PH Name:	Date:
						P USA			BH01 (C-04494)	11/18/2020, 12/02/20, 01/05/2021
			_	_ 5	08 West S	Stevens S	street		Site Name: Re	muda North 25 Observation Well
				Cár	Isbad, Ne	w iviexico	88220		RP or Incident Numbe	
								LTE Job Number:	TE012919039	
		LITH	OLOG	IC / SOIL				Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic	
Lat/Lo	ng:				Field Scre	ening:			Hole Diameter: 6.25", 4.25"	Total Depth: 105'
Comm	ents:								0.20, 7.20	103
Litholo	gy remarks	s only. No	field so	reenings: D	ry hole					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks
D			Ν			26	CL			
D			Ν			27 28 29 30 31 32 33 34 35 36 37 38 39	_	consolid no odor, 34-39' : features At 39' : I 39-42' : consolid odor, lig 42-45' : (>1mm) At 48' : \$ 48-56' : DOLOM	ated, cohesive, trace cal sharp transition Sub-angular calcium car (1-3mm), tan-light brow Begin air rotory (4.25") DOLOMETIC LIMESTOR lated, with dissolution fea ht to moderate reaction v Some light gray dolomite Stop due to air rotory refu	NE, tan-light brown, dry, well atures (1-3mm), sharp, no stain, no with HCl e with trace dissolution features
						50				

									BH or PH Name:		Date:	
					WS	P USA			BH01 (C-04494)		11/18/2020. 12/02/2020, 1/5/2021	
				1	508 West S	Stevens 9	Street		. ,		orth 25 Observation Well	
				Ca	rlsbad, Ne	w Mexico		RP or Incident Number:				
								LTE Job Number: TE012919039				
		LITH	OLOG	IC / SOI	L SAMPL	ING LO	G		Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Lo	Lat/Long: Field Screening:								Hole Diameter:		Total Depth:	
Comm	onts.								6.25", 4.25"		105'	
	ogic log on	ly, no field	d screer	nings	1			1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/R	emarks	
						51 52 53 54 55 56 57 58 59 60 61	DOL	DOLOM no odor At 56' : f 56-65' : calcium (2mm) v within di 62' : Bro stringer 63-65' :	ITE, white, well cons Restarted borehole of DOLOMITE, dry, ligh crystalline veins (<1r rith fine calcite crysta ssolution features, no wn-pale yellow coars (2cm) Abundant calcite crysta	n 1/5/2 It gray- mm), s alline, tr o stain, se crys	gray, well consolidated, some ome dissolution features race orange oxidation staining	
D			N			62 63 64 65 66 67 68 69 70	CH-S GYP					
						71 72 73 74 75						

Moisture Content Cithologic log Comide Chloride	only, no fiel		Car BIC / SOII	WSP US 508 West Steve 1sbad, New Mo Sample Depth (ft bgs)	RP or Incident Number LTE Job Number: TEO Logged By BB, LAD, FS Hole Diameter: 6.25", 4.25"	: 12919039 S	Date: 11/18/2020. 12/02/2020, 1/5/2021 North 25 Observation Well Method: Hollow Stem Auger, sonic Total Depth: 105' Remarks			
D		N N			76       77       78       79       80       81       82       83       84       85       86       87       88       89       90       91       92       93       94       95       96       97       98       90       91	CH-S GYP ML-S	yellow, v no odor 81-98' : 1 consolid gypsum 85-86.5' gypsum/ 90-98' : 3 At 97' : c 98-99.5' consolid 99.5-105	vell consolidated, fi MUDSTONE, mois- ated, high plasticity inclusions, no stair : greenish-gray we anhydrite stringer Some fine grain bro lark gray-gray gysp : GYPSUM, dark g ated, fine-coarse cl 5' : Sandy SILTSTC	t, dark r , cohes , no odu Il conso own san own san own strir ray-gray rystallin DNE, mc	lidated coarse crystalline

#### **Released to Imaging: 12/1/2021 3:36:39 PM**

								BH or PH Name:		Date:
					WSP US	A		BH01 (C-04494)		11/18/2020. 12/02/2020, 1/5/2021
				ŗ	508 West Steve	ns Street				orth 25 Observation Well
				Ca	508 West Stever Isbad, New Me	xico 88220		RP or Incident Number:		
						LTE Job Number: TE01:	2919039			
		LITH	OLOG	IC / SOI	L SAMPLING	LOG		Logged By BB, LAD, FS	5	Method: Hollow Stem Auger, sonic
Lat/Lo					Field Screening:			Hole Diameter: 6.25", 4.25"		Total Depth: 105'
Comm Litholc	ients: ogic log onl	ly, no field	d screei	nings	<b></b>		1			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)			Lith	ology/R	emarks
						1 ML-S				st, brown, some gray-dark / fine grain sand, no stain, no
								Thin (<1mm) lamina inger (4cm thick)	ated bla	ck/gray well consolidated
D			N				TD @ 10	05' bgs (1/5/2021)		
						8				

				WS	P USA			BH or PH Name: PH01	Date: 09/16/2021
			-			Site Name: REMUDA 100			
			car	08 West S Isbad, Nev	w Mexico	RP or Incident Number: NAPP2121445163			
			00.				WSP Job Number: 31403236.0		
-	LITH		SIC / SOIL	SAMDI			Logged By: EL	Method: Backhoe	
Lat/Long: (32				Field Scre		9		Hole Diameter: N/A	Total Depth: 2 feet bgs
Comments:				Hach chlor	ride strips,				
M-moist; D-c	lry; Y-yes; N-								
Moisture Content Chloride	(ppm) (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	/Remarks
M 76	7 1.9	Ν	PH01	1	1	SC	ABUDA		GRAIN, WELL GRADED, SILTY, COBBEL, SOME CLAY, LOW
M 76	7 2.1	Ν	PH01A	2	2		ABUDAI		GRAIN, WELL GRADED, SILTY, COBBEL, SOME CLAY, LOW
					_	TO	@ 2 ft bg		

119					P USA	iroot		BH or PH Name: PH02 Site Name: REMUDA 100	Date: 09/16/2021
			car	08 West S sbad, Nev	<i>w</i> Mexico	RP or Incident Number: NAPP212	21445163		
						WSP Job Number: 31403236.022			
	LITHO	LOG	IC / SOIL	. SAMPL			Logged By: EL	Method: Backhoe	
Lat/Long: (32.276				Field Scree		_		Hole Diameter: N/A	Total Depth: 2 feet bgs
				Hach chloi					
Comments: All ch M-moist; D-dry; Y			enings includ	le a 40% co	prrection fa	ictor			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/F	Remarks
M 767	2.9	N	PH02	1	1		ABUDAI		RAIN, WELL GRADED, SILTY, OBBEL, SOME CLAY, LOW
M 369	3.2	N	PH02A	2	2		ABUDAI		RAIN, WELL GRADED, SILTY, OBBEL, SOME CLAY, LOW
IL							@ 2 ft bg		

<b>NSI</b>		WSP USA			BH or PH Name: PH03	Date: 09/16/2021
		508 West Stevens	Street	-	Site Name: REMUDA 100	
	Cai	Isbad, New Mexic	o 88220		RP or Incident Number: NAPP21	21445163
					WSP Job Number: 31403236.02	2.0129
LITH	OLOGIC / SOI	L SAMPLING LO	G	I	Logged By: EL	Method: Backhoe
Lat/Long: (32.27695, -103	.94264)	Field Screening:			Hole Diameter: N/A	Total Depth: 2 feet bgs
	··· · · · ·	Hach chloride strips				
Comments: All chloride fie M-moist; D-dry; Y-yes; N-I		de a 40% correction f	actor			
Moisture Content Chloride (ppm) (ppm)	Staining Sample #	Sample Depth (ft bgs)			Lithology/F	Remarks
M 420 2.0	N PH03			ABUDAN		RAIN, WELL GRADED, SILTY, OBBEL, SOME CLAY, LOW
M 767 1.0	N PH03A	2 2		ABUDAN		RAIN, WELL GRADED, SILTY, OBBEL, SOME CLAY, LOW
		<u> </u>				
			TD	@ 2 ft bgs	3	

			)		WS	P USA			BH or PH Name: PH04	Date: 09/16/2021
				5	08 West S	Stevens S	itreet		Site Name: REMUDA 100	
				Car	Isbad, Nev	w Mexico	88220		RP or Incident Number: NAPP21	
									WSP Job Number: 31403236.02	
				SIC / SOIL			G		Logged By: EL	Method: Backhoe
Lat/Lo	ong: (32.27	695, -103	.94264	)	Field Scre	-			Hole Diameter: N/A	Total Depth: 2 feet bgs
Comn	nents: All c	hloride fie	ald scre	enings includ	Hach chlor					
	ist; D-dry; `			oningo inolat						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/	Remarks
М	896	3.3	Ν	PH04	1	1		ABUDAI		RAIN, WELL GRADED, SILTY, COBBEL, SOME CLAY, LOW
Μ	644	1.5	Ν	PH04A	2	2		ABUDAI		RAIN, WELL GRADED, SILTY, COBBEL, SOME CLAY, LOW
								@ 2 ft bg		

			WS	P USA			BH or PH Name: PH05	Date: 09/16/2021
		F						
		5U Carle	)8 West S sbad, Nev	Movico			Site Name: REMUDA 100	01115100
		Call	suau, iver		00220		RP or Incident Number: NAPP21	
							WSP Job Number: 31403236.02	2.0129
	LITHOLOG	GIC / SOIL	SAMPL	ING LO	G		Logged By: EL	Method: Backhoe
Lat/Long: (32.2769	5, -103.94264	)	Field Scree	ening:			Hole Diameter: N/A	Total Depth: 2 feet bgs
-			Hach chlor					
Comments: All chlo M-moist; D-dry; Y-y		enings include	e a 40% co	prrection fa	ictor			
W-moist, D-ary, T-y	/es, IN-IIU					1		
Moisture Content Chloride (ppm)	vapor (ppm) Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/	Remarks
M 369	1.7 N	PH05	1	1	SC	ABUDAN		RAIN, WELL GRADED, SILTY, OBBEL, SOME CLAY, LOW
M 224	2.6 N	PH05A	2	2	SC	ABUDAN		RAIN, WELL GRADED, SILTY, COBBEL, SOME CLAY, LOW
			-	_				
					TD	@ 2 ft bg	S	

## vsp

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Remuda 100	31403236.022.0129
	Eddy County, New Mexico	





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#### PHOTOGRAPHIC LOG

XTO Energy, Inc.	JRU 36 RAMBLER	31403236.012.0129
	Eddy County, New Mexico	

Photo No.	Date
3	9-16-2021
North fac	ing view of
delineation	n activity on <del>1</del> 02.
	102.

oto No	Date	
Photo No.	Date	
4	9-16-2021	
South faci	ng view of	
	n activity on	
	04.	
		- Batter and

## 🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-1267-1

Laboratory Sample Delivery Group: 31403236.022.0129 Client Project/Site: Remuda 100

#### For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 9/23/2021 4:08:04 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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

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

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

www.eurofinsus.com/Env Released to Imaging: 12/1/2021 3:36:39 PM

Visit us at:
Laboratory Job ID: 890-1267-1 SDG: 31403236.022.0129

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QC Association Summary	21
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Method Summary	29
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Client: WSP USA Inc. Project/Site: Remuda 100 Job ID: 890-1267-1 SDG: 31403236.022.0129

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-		
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
GC Semi VOA	A	
Qualifier	Qualifier Description	6
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	8
HPLC/IC		
Qualifier	Qualifier Description	9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		1
Abbreviation	These commonly used abbreviations may or may not be present in this report.	1
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	4
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
FDI	Estimated Detection Limit (Dioxin)	

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

4

5

Job ID: 890-1267-1 SDG: 31403236.022.0129

### Job ID: 890-1267-1

Project/Site: Remuda 100

Client: WSP USA Inc.

### Laboratory: Eurofins Xenco, Carlsbad

### Narrative

Job Narrative 890-1267-1

### Receipt

The samples were received on 9/17/2021 9:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH05 (890-1267-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8210 and analytical batch 880-8175 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

### HPLC/IC

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

Job ID: 890-1267-1 SDG: 31403236.022.0129

# Lab Sample ID: 890-1267-1

Matrix: Solid

5

**Client Sample ID: PH01** Date Collected: 09/16/21 12:20

Date Received: 09/17/21 09:01

Sample Depth: 1

Client: WSP USA Inc. Project/Site: Remuda 100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/18/21 11:00	09/19/21 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/18/21 11:00	09/19/21 06:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/18/21 11:00	09/19/21 06:00	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U F1	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U F1	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
C10-C28)	<49.8		49.8	malka		09/21/21 14:14	09/21/21 21:21	
Oll Range Organics (Over C28-C36) Total TPH	<49.8 <49.8			mg/Kg			09/21/21 21:21	
IOTAL IPH	<49.8	UFI	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			09/21/21 14:14	09/21/21 21:21	1
o-Terphenyl	78		70 - 130			09/21/21 14:14	09/21/21 21:21	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		25.2	mg/Kg			09/21/21 02:03	5
lient Sample ID: PH01A						Lab Sar	nple ID: 890-	1267-2
ate Collected: 09/16/21 12:25								x: Solid

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/18/21 11:00	09/19/21 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/18/21 11:00	09/19/21 06:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/18/21 11:00	09/19/21 06:21	1

Matrix: Solid

Matrix: Solid

5

# **Client Sample Results**

Job ID: 890-1267-1 SDG: 31403236.022.0129

# **Client Sample ID: PH01A**

Date Collected: 09/16/21 12:25 Date Received: 09/17/21 09:01

Sample Depth: 2

Client: WSP USA Inc.

Project/Site: Remuda 100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	50.3		50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
Total TPH	50.3		50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			09/21/21 14:14	09/21/21 22:22	1
o-Terphenyl	103		70 - 130			09/21/21 14:14	09/21/21 22:22	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	584		5.04	mg/Kg			09/21/21 02:08	1

Date Collected: 09/16/21 12:35 Date Received: 09/17/21 09:01 Sample Depth: 1

Method: 8021B - Volatile Orga	inic Compounds	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 06:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/18/21 11:00	09/19/21 06:41	1

1,4-Difluorobenzene (Surr)	99		70 - 130			09/18/21 11:00	09/19/21 06:41	1
– Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 22:42	1
Diesel Range Organics (Over C10-C28)	118		49.9	mg/Kg		09/21/21 14:14	09/21/21 22:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 22:42	1
Total TPH	118		49.9	mg/Kg		09/21/21 14:14	09/21/21 22:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			09/21/21 14:14	09/21/21 22:42	1
o-Terphenyl	90		70 - 130			09/21/21 14:14	09/21/21 22:42	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		25.3	mg/Kg			09/21/21 02:25	5

# Lab Sample ID: 890-1267-2

Job ID: 890-1267-1 SDG: 31403236.022.0129

# Lab Sample ID: 890-1267-4

Matrix: Solid

5

Client Sample ID: PH02A Date Collected: 09/16/21 12:40 Date Received: 09/17/21 09:01 Sample Depth: 2

Client: WSP USA Inc. Project/Site: Remuda 100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	
Toluene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130			09/18/21 11:00	09/19/21 07:01	
1,4-Difluorobenzene (Surr)	88		70 - 130			09/18/21 11:00	09/19/21 07:01	-
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	
Total TPH	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	62	S1-	70 - 130			09/21/21 14:14	09/21/21 23:02	
o-Terphenyl	114		70 - 130			09/21/21 14:14	09/21/21 23:02	-
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		5.01	mg/Kg			09/21/21 02:31	
lient Sample ID: PH03						Lab Sar	nple ID: 890-	1267-5
ate Collected: 09/16/21 13:45							Matri	x: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/18/21 11:00	09/19/21 07:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130			09/18/21 11:00	09/19/21 07:22	1

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5

Matrix: Solid

# **Client Sample Results**

Job ID: 890-1267-1 SDG: 31403236.022.0129

Lab Sample ID: 890-1267-5

Lab Sample ID: 890-1267-6

Matrix: Solid

# Client Sample ID: PH03

Date Collected: 09/16/21 13:45 Date Received: 09/17/21 09:01

Sample Depth: 1

Client: WSP USA Inc.

Project/Site: Remuda 100

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/21/21 14:14	09/21/21 23:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/21/21 14:14	09/21/21 23:22	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 14:14	09/21/21 23:22	1
Total TPH	<49.8	U	49.8	mg/Kg		09/21/21 14:14	09/21/21 23:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			09/21/21 14:14	09/21/21 23:22	1
o-Terphenyl	97		70 - 130			09/21/21 14:14	09/21/21 23:22	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		25.1	mg/Kg			09/21/21 02:36	5

### **Client Sample ID: PH03A**

Date Collected: 09/16/21 13:50 Date Received: 09/17/21 09:01 Sample Depth: 2

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/18/21 11:00	09/19/21 07:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/18/21 11:00	09/19/21 07:42	1

1,4-Difluorobenzene (Surr)	99		70 - 130			09/18/21 11:00	09/19/21 07:42	1
– Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 14:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 14:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 14:33	1
Total TPH	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			09/20/21 16:44	09/21/21 14:33	1
o-Terphenyl	112		70 - 130			09/20/21 16:44	09/21/21 14:33	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		24.9	mg/Kg			09/23/21 10:43	5

Job ID: 890-1267-1 SDG: 31403236.022.0129

# Lab Sample ID: 890-1267-7

Matrix: Solid

5

Date Collected: 09/16/21 13:55 Date Received: 09/17/21 09:01 Sample Depth: 1

Project/Site: Remuda 100

**Client Sample ID: PH04** 

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	
Toluene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130			09/18/21 11:00	09/19/21 08:03	
1,4-Difluorobenzene (Surr)	94		70 - 130			09/18/21 11:00	09/19/21 08:03	-
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	
Diesel Range Organics (Over C10-C28)	76.1		49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	
Total TPH	76.1		49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130			09/20/21 16:44	09/21/21 14:54	
o-Terphenyl	109		70 - 130			09/20/21 16:44	09/21/21 14:54	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		24.8	mg/Kg			09/23/21 10:49	Ę
light Sample ID: PH044						Lab San		1267 (
lient Sample ID: PH04A ate Collected: 09/16/21 14:03						Lay Sal	nple ID: 890-	x: Soli

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 09/18/21 11:00 09/19/21 08:23 1 Toluene <0.00199 U 0.00199 mg/Kg 09/18/21 11:00 09/19/21 08:23 1 Ethylbenzene <0.00199 U 0.00199 mg/Kg 09/18/21 11:00 09/19/21 08:23 1 m-Xylene & p-Xylene <0.00398 U 0.00398 09/18/21 11:00 09/19/21 08:23 mg/Kg 1 0.00199 09/19/21 08:23 o-Xylene <0.00199 U mg/Kg 09/18/21 11:00 1 Xylenes, Total 0.00398 09/19/21 08:23 <0.00398 U mg/Kg 09/18/21 11:00 1 Total BTEX <0.00398 U 0.00398 mg/Kg 09/18/21 11:00 09/19/21 08:23 1 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 117 70 - 130 09/18/21 11:00 09/19/21 08:23 1 1,4-Difluorobenzene (Surr) 70 - 130 09/18/21 11:00 09/19/21 08:23 90 1

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# **Client Sample Results**

Job ID: 890-1267-1 SDG: 31403236.022.0129

Lab Sample ID: 890-1267-8

Lab Sample ID: 890-1267-9

09/19/21 08:43

1

09/18/21 11:00

Matrix: Solid

# Client Sample ID: PH04A

Date Collected: 09/16/21 14:03 Date Received: 09/17/21 09:01

Sample Depth: 2

Client: WSP USA Inc.

Project/Site: Remuda 100

-	je Organics (D							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
Total TPH	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			09/20/21 16:44	09/21/21 15:16	1
o-Terphenyl	114		70 - 130			09/20/21 16:44	09/21/21 15:16	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		24.8	mg/Kg			09/23/21 10:55	5

Client	Sam	ple l	ID:	PH05
	Uditi			

Date Collected: 09/16/21 12:50 Date Received: 09/17/21 09:01 Sample Depth: 1

1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Orga	nic Compounds (	( <b>GC</b> )						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
o-Xylene	0.00261		0.00201	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 08:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			09/18/21 11:00	09/19/21 08:43	1

70 - 130

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

100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
Total TPH	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			09/20/21 16:44	09/21/21 15:37	1
o-Terphenyl	113		70 - 130			09/20/21 16:44	09/21/21 15:37	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		25.2	mg/Kg			09/23/21 11:12	5

5

Matrix: Solid

RL

0.00200

0.00200

<0.00200 U

Unit

mg/Kg

mg/Kg

D

Prepared

09/18/21 11:00

09/18/21 11:00

Job ID: 890-1267-1 SDG: 31403236.022.07

# **Client Sample ID: PH05A**

Client: WSP USA Inc.

Toluene

Project/Site: Remuda 100

Date Collected: 09/16/21 12:55

# Lab Sample ID: 890-1267-

Analyzed

09/19/21 09:04

09/19/21 09:04

Matrix: So

2.0129	2
67-10 : Solid	3
	4
	5
Dil Fac 1 1	6
1 1 1	7
1 1	8
1	9
Dil Fac 1	10
1	11
Dil Fac 1	12
1	13
1	14

Date 0011ected. 03/10/21 12.33		
Date Received: 09/17/21 09:01		
Sample Depth: 2		
Method: 8021B - Volatile Organic C	ompounds (	GC)
Analyte	Result	Qualifier
Benzene	<0.00200	U

Analyte	Result							
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Cl	hromatography -	Soluble						
o-Terphenyl	134	S1+	70 - 130			09/20/21 16:44	09/21/21 17:25	1
1-Chlorooctane	130		70 - 130			09/20/21 16:44	09/21/21 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	
Oll Range Organics (Over C28-C36)	<50.0		50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	
C10-C28)								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	
(GRO)-C6-C10								
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	
Method: 8015B NM - Diesel Ra Analyte		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)			70 - 130			09/16/21 11.00	09/19/21 09.04	
	96		70 - 130 70 - 130			09/18/21 11:00	09/19/21 09:04	
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 128	Qualifier	<u>Limits</u> 70 - 130			Prepared 09/18/21 11:00	Analyzed 09/19/21 09:04	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 09:04	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 09:04	

Client: WSP USA Inc. Project/Site: Remuda 100

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-1267-1	PH01	109	99		
890-1267-1 MS	PH01	104	93		6
890-1267-1 MSD	PH01	102	89		
890-1267-2	PH01A	129	99		
890-1267-3	PH02	110	99		
890-1267-4	PH02A	130	88		8
890-1267-5	PH03	127	98		
890-1267-6	PH03A	123	99		0
890-1267-7	PH04	118	94		
890-1267-8	PH04A	117	90		
890-1267-9	PH05	135 S1+	100		
890-1267-10	PH05A	128	96		
LCS 880-8063/1-A	Lab Control Sample	101	94		
LCS 880-8064/1-A	Lab Control Sample	108	99		
LCSD 880-8063/2-A	Lab Control Sample Dup	111	85		
LCSD 880-8064/2-A	Lab Control Sample Dup	110	86		
MB 880-8063/5-A	Method Blank	133 S1+	107		13
MB 880-8064/5-A	Method Blank	136 S1+	102		
Surrogate Legend					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1267-1	PH01	78	78	
890-1267-1 MS	PH01	93	90	
890-1267-1 MSD	PH01	96	94	
890-1267-2	PH01A	103	103	
890-1267-3	PH02	94	90	
890-1267-4	PH02A	62 S1-	114	
890-1267-5	PH03	100	97	
890-1267-6	PH03A	111	112	
890-1267-7	PH04	106	109	
890-1267-8	PH04A	111	114	
890-1267-9	PH05	108	113	
890-1267-10	PH05A	130	134 S1+	
890-1288-A-1-F MS	Matrix Spike	104	97	
890-1288-A-1-H MSD	Matrix Spike Duplicate	102	98	
LCS 880-8157/2-A	Lab Control Sample	96	92	
LCS 880-8210/2-A	Lab Control Sample	93	86	
LCSD 880-8157/3-A	Lab Control Sample Dup	97	96	
LCSD 880-8210/3-A	Lab Control Sample Dup	95	88	
MB 880-8157/1-A	Method Blank	99	106	
MB 880-8210/1-A	Method Blank	93	92	

Job ID: 890-1267-1

Prep Type: Total/NA

SDG: 31403236.022.0129

# **Surrogate Summary**

Client: WSP USA Inc. Project/Site: Remuda 100 1CO = 1-Chlorooctane OTPH = o-Terphenyl Job ID: 890-1267-1 SDG: 31403236.022.0129

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

Lab Sample ID: MB 880-8063/5-A Matrix: Solid Analysis Batch: 8086						Client Sa	mple ID: Metho Prep Type: 1 Prep Bato	Total/NA
	MB							
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/18/21 10:30	09/18/21 17:58	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			09/18/21 10:30	09/18/21 17:58	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/18/21 10:30	09/18/21 17:58	1
Lab Sample ID: LCS 880-8063/1-A					c	lient Sample I	D: Lab Control	Sample

# 1,4-Diflu Lab Sample ID: LCS 880-8063/1-A

### Matrix: Solid Analysis Batch: 8086

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1029		mg/Kg		103	70 - 130	
0.100	0.1059		mg/Kg		106	70 - 130	
0.100	0.1081		mg/Kg		108	70 - 130	
0.200	0.2039		mg/Kg		102	70 - 130	
0.100	0.1019		mg/Kg		102	70 - 130	
	Added 0.100 0.100 0.100 0.200	Added         Result           0.100         0.1029           0.100         0.1059           0.100         0.1081           0.200         0.2039	Added         Result         Qualifier           0.100         0.1029	Added         Result         Qualifier         Unit           0.100         0.1029         mg/Kg           0.100         0.1059         mg/Kg           0.100         0.1081         mg/Kg           0.200         0.2039         mg/Kg	Added         Result         Qualifier         Unit         D           0.100         0.1029         mg/Kg         mg/Kg           0.100         0.1059         mg/Kg           0.100         0.1081         mg/Kg           0.200         0.2039         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec           0.100         0.1029         mg/Kg         103         103           0.100         0.1059         mg/Kg         106           0.100         0.1081         mg/Kg         108           0.200         0.2039         mg/Kg         102	Added         Result         Qualifier         Unit         D         %Rec         Limits           0.100         0.1029         mg/Kg         103         70 - 130           0.100         0.1059         mg/Kg         106         70 - 130           0.100         0.1081         mg/Kg         108         70 - 130           0.200         0.2039         mg/Kg         102         70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

### Lab Sample ID: LCSD 880-8063/2-A Matrix: Solid

Analysis Batch: 8086							Pre	p Batch	: 8063
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09783		mg/Kg		98	70 - 130	5	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2175		mg/Kg		109	70 - 130	6	35
o-Xylene	0.100	0.1099		mg/Kg		110	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: MB 880-8064/5-A Matrix: Solid Analysis Batch: 8086					Client Sa	mple ID: Metho Prep Type: 1 Prep Bato	Fotal/NA
MB	MB						
Analyte Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene <0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 05:32	1

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Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 8063

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Client: WSP USA Inc. Project/Site: Remuda 100

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

Lab Sample ID: MB 880-8064/5 Matrix: Solid Analysis Batch: 8086	5-A					Client Sa	mple ID: Metho Prep Type: 1 Prep Bato	otal/NA
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 05:32	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/18/21 11:00	09/19/21 05:32	1
1,4-Difluorobenzene (Surr)	102		70 _ 130			09/18/21 11:00	09/19/21 05:32	1
Lab Sample ID: LCS 880-8064/ Matrix: Solid	/1-A				C	lient Sample I	D: Lab Control Prep Type: 1	

Matrix: Solid Analysis Batch: 8086

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07391		mg/Kg		74	70 - 130	
Toluene	0.100	0.08092		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07897		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1454		mg/Kg		73	70 - 130	
o-Xylene	0.100	0.07628		mg/Kg		76	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

### Lab Sample ID: LCSD 880-8064/2-A Matrix: Solid

<b>Analys</b>	sis Batch	· 8086

Analysis Batch: 8086								Prep Batch: 8064		
	Spike	LCSD	LCSD				%Rec.	-	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07163		mg/Kg		72	70 - 130	3	35	
Toluene	0.100	0.09570		mg/Kg		96	70 - 130	17	35	
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	25	35	
m-Xylene & p-Xylene	0.200	0.1791		mg/Kg		90	70 - 130	21	35	
o-Xylene	0.100	0.08841		mg/Kg		88	70 - 130	15	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

### Lab Sample ID: 890-1267-1 MS Matrix: Solid aluaia Batahu 9096

Analysis Batch: 8086									Pre	p Batch: 8064
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08121		mg/Kg		81	70 - 130	
Toluene	<0.00200	U	0.100	0.1040		mg/Kg		104	70 - 130	

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**Client Sample ID: PH01** 

Prep Type: Total/NA

Job ID: 890-1267-1

Prep Batch: 8064

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

SDG: 31403236.022.0129

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Client: WSP USA Inc. Project/Site: Remuda 100

Job ID: 890-1267-1 SDG: 31403236.022.0129

Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086										mple ID: ſype: To p Batch	tal/N/
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00200	U	0.100	0.1077		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1993		mg/Kg		99	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1010		mg/Kg		100	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid	93		70 - 130							Гуре: То	tal/N
1,4-Difluorobenzene (Surr)	93 D	Sample	70 - 130 Spike	MSD	MSD				Prep 1		tal/N : 806
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086	93 D Sample	Sample Qualifier			MSD Qualifier	Unit	D	%Rec	Prep 1 Pre	Гуре: То	tal/N. 1: 806 RP
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid	93 D Sample	Qualifier	Spike			- <mark>Unit</mark> mg/Kg	<u>D</u>	<u>%Rec</u> 80	Prep 1 Pre %Rec.	Гуре: To p Batch	o <mark>tal/N</mark> : 806 RP Lim
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086 Analyte	93 D Sample Result	Qualifier	Spike Added	Result			D		Prep 1 Pre %Rec. Limits	Fype: To p Batch	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MSI Matrix: Solid Analysis Batch: 8086 Analyte Benzene Toluene	93 D Sample Result <0.00200	Qualifier U U	Spike Added 0.0994	<b>Result</b> 0.07940		mg/Kg	<u>D</u>	80	Prep 1 Pre %Rec. Limits 70 - 130	Type: To p Batch RPD 2	tal/N/ 806 RPI Lim
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MSI Matrix: Solid Analysis Batch: 8086 Analyte Benzene	93 D Sample Result <0.00200 <0.00200	Qualifier U U U	Spike Added 0.0994 0.0994	<b>Result</b> 0.07940 0.1021		mg/Kg mg/Kg	D	80 103	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch RPD 2 2	tal/N : 806 RP Lim 3 3
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086 Analyte Benzene Toluene Ethylbenzene	93 D Sample Result <0.00200 <0.00200 <0.00200	Qualifier U U U U	Spike Added 0.0994 0.0994 0.0994	Result 0.07940 0.1021 0.1107		mg/Kg mg/Kg mg/Kg	<u>D</u>	80 103 111	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 2 2 3	tal/N : 806 RP Lim 3 3 3
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	93 D Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200	Qualifier U U U U	Spike Added 0.0994 0.0994 0.0994 0.199	Result 0.07940 0.1021 0.1107 0.2027		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	80 103 111 102	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 2 2 2 3 2	tal/N. 806 RP Lim 3 3 3
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8086 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	93 D Sample Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200	Qualifier U U U U U MSD	Spike Added 0.0994 0.0994 0.0994 0.199	Result 0.07940 0.1021 0.1107 0.2027		mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	80 103 111 102	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 2 2 2 3 2	tal/N. : 806 RP Lim 3 3 3 3
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1267-1 MSI Matrix: Solid Analysis Batch: 8086 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	93 <b>Sample</b> <b>Result</b> <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <i>MSD</i>	Qualifier U U U U U MSD	<b>Spike</b> Added 0.0994 0.0994 0.0994 0.199 0.0994	Result 0.07940 0.1021 0.1107 0.2027		mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	80 103 111 102	Prep 1 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130	Type: To p Batch RPD 2 2 2 3 2	tal/N. 806 RP Lim 3 3 3

### Lab Sample ID: MB 880-8157/1-A Matrix: Solid Analysis Batch: 8185

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 11:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 11:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 11:00	1
Total TPH	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 11:00	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/20/21 16:44	09/21/21 11:00	1
o-Terphenyl	106		70 - 130			09/20/21 16:44	09/21/21 11:00	1

Lab Sample ID: LCS 880-8157/2-A				Client	Sample	ID: Lab C	ontrol Sample
Matrix: Solid						Prep	Type: Total/NA
Analysis Batch: 8185						Pre	p Batch: 8157
	Spike	LCS LO	cs			%Rec.	
Analyte	Added	Result Q	ualifier Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	922.4	mg/Kg	J	92	70 - 130	

(GRO)-C6-C10

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**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 8157

### Job ID: 890-1267-1 SDG: 31403236.022.0129

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

Lab Sample ID: LCS 880-815	57/2-A						Client	Sample	ID: Lab C	ontrol Sa	ample
Matrix: Solid									Prep <sup>-</sup>	Type: To	tal/NA
Analysis Batch: 8185									Pre	p Batch	: 8157
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over			1000	969.7		mg/Kg		97	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	92		70 - 130								
-											
Lab Sample ID: LCSD 880-81	157/3-A					Clier	nt Sam	ple ID: I	Lab Contro		
Matrix: Solid										Гуре: То	
Analysis Batch: 8185										p Batch	
			Spike		LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	920.2		mg/Kg		92	70 - 130	0	20
(GRO)-C6-C10 Diesel Range Organics (Over			1000	993.1		mg/Kg		99	70 <sub>-</sub> 130	2	20
C10-C28)			1000	555.1		mg/ng		55	70 - 150	2	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	96		70 - 130								
- Lab Sample ID: 890-1288-A-1								Client	Sample ID	Matrix	Sniko
Matrix: Solid								Chem		Type: To	
Analysis Batch: 8185										p Batch	
Analysis Batch. 6166										p Daten	
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	104	Qualifier	70 - 130								
		Qualifier									
1-Chlorooctane o-Terphenyl		Qualifier	70 - 130			CI	ient Sa	ample IC	). Matrix Si	nike Dur	licate
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1		Qualifier	70 - 130			Cli	ient Sa	ample ID	): Matrix S		
I-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid		Qualifier	70 - 130			CI	ient Sa	ample ID	Prep <sup>-</sup>	Гуре: То	tal/NA
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1	104 97 1-H MSD		70 - 130 70 - 130	MSD	MSD	Cli	ient Sa	ample ID	Prep <sup>-</sup> Pre		tal/NA : 8157
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185	104 97 1-H MSD Sample	Sample	70 - 130 70 - 130 Spike		MSD Qualifier				Prep <sup>-</sup> Pre %Rec.	Type: To p Batch	tal/NA : 8157 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185 Analyte Gasoline Range Organics	104 97 1-H MSD Sample	Sample Qualifier	70 - 130 70 - 130		MSD Qualifier	Cli - Unit mg/Kg	ient Sa	mple IE	Prep <sup>-</sup> Pre	Гуре: То	tal/NA : 8157 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185 Analyte	104 97 1-H MSD Sample Result	Sample Qualifier	70 - 130 70 - 130 Spike Added	Result		Unit			Prep <sup>-</sup> Pre %Rec.	Type: To p Batch	tal/NA : 8157 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	104 97 1-H MSD Sample <u>Result</u> <49.8 3380	Sample Qualifier U	70 - 130 70 - 130 <b>Spike</b> Added 999	<b>Result</b> 905.6		- <mark>Unit</mark> mg/Kg			Prep <sup>-</sup> Pre %Rec.	Type: To p Batch	tal/NA : 8157
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Sample Qualifier U	70 - 130 70 - 130 Spike Added 999	<b>Result</b> 905.6		- <mark>Unit</mark> mg/Kg			Prep <sup>-</sup> Pre %Rec.	Type: To p Batch	tal/NA : 8157 RPD
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1288-A-1 Matrix: Solid Analysis Batch: 8185 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	104 97 1-H MSD Sample <u>Result</u> <49.8 3380	Sample Qualifier U	70 - 130 70 - 130 <b>Spike</b> Added 999	<b>Result</b> 905.6		- <mark>Unit</mark> mg/Kg			Prep <sup>-</sup> Pre %Rec.	Type: To p Batch	tal/NA : 8157 RPD

C10-C28)

### Job ID: 890-1267-1 SDG: 31403236.022.0129

Lab Sample ID: MB 880-8210/1-A	<u>د</u>							Client S	ample ID: M	ethod	Blank
Matrix: Solid									Prep Ty	pe: To	tal/NA
Analysis Batch: 8175										Batch	
	N	IB MB									
Analyte		ult Qualifier	RL		Unit		DI	Prepared	Analyzed	t	Dil Fac
Gasoline Range Organics		0.0 U	50.0		mg/Kg			21/21 14:14			1
(GRO)-C6-C10		-			0.0					-	
Diesel Range Organics (Over	<50	0.0 U	50.0		mg/Kg		09/	21/21 14:14	09/21/21 20	):21	1
C10-C28)											
Oll Range Organics (Over C28-C36)	<50	0.0 U	50.0		mg/Kg		09/	21/21 14:14	09/21/21 20	):21	1
Total TPH	<50	0.0 U	50.0		mg/Kg		09/	21/21 14:14	09/21/21 20	):21	1
		1B MB							•		
Surrogate	%Recove		Limits					Prepared	Analyzed		Dil Fac
1-Chlorooctane		93	70 - 130					21/21 14:14			1
p-Terphenyl	,	92	70 - 130				09/	21/21 14:14	09/21/21 20	):21	1
Lab Sample ID: 1 CS 890 8210/2	•						Clion	+ Somalo	ID: Lab Car	trol S	
Lab Sample ID: LCS 880-8210/2-4	A						Clien	t Sample	ID: Lab Cor		
Matrix: Solid									Prep Ty		
Analysis Batch: 8175			0	1.00						Batch	: 8210
			Spike		LCS			~~ <b>B</b>	%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	862.4		mg/Kg		86	70 - 130		
(GRO)-C6-C10 Diesel Range Organics (Over			1000	855.3		malka		86	70 - 130		
C10-C28)			1000	000.0		mg/Kg		00	10 - 130		
510-626)											
	LCS L	cs									
		ualifier	Limits								
1-Chlorooctane	93		70 - 130								
p-Terphenyl	86		70 - 130								
	_										_
Lab Sample ID: LCSD 880-8210/3	3- <b>A</b>					Clie	ent Sar	nple ID: L	ab Control		-
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid	3-A					Clie	ent Sar	nple ID: L	Prep Ty	pe: To	tal/NA
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid	3-A					Clie	ent Sar	nple ID: L	Prep Ty Prep		tal/NA : 8210
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175	3-A		Spike		LCSD				Prep Ty Prep %Rec.	pe: To Batch	tal/NA
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 <sup>Analyte</sup>	3-A		Added	Result	LCSD Qualifier	Clie Unit	ent Sar	%Rec	Prep Ty Prep %Rec. Limits	pe: To Batch RPD	tal/NA : 8210 RPC Limit
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics	3-A 		-						Prep Ty Prep %Rec.	pe: To Batch	tal/NA : 8210 RPD
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10	3- <b>A</b> 		Added	<b>Result</b> 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 8210 RPC Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	3-A 		Added	Result		Unit		%Rec	Prep Ty Prep %Rec. Limits	pe: To Batch RPD	tal/NA : 8210 RPC Limit
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	3-A 		Added	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 8210 RPC Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	3-A 		Added	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 821( RPE Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			Added	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 821( RPE Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD L		Added	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 8210 RPD Limit
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD L %Recovery Q		Added 1000 1000 <i>Limits</i>	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6	tal/NA : 821( RPE Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	LCSD L %Recovery Q 95		Added 1000 1000 Limits 70 - 130	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty           Prep           %Rec.           Limits           70 - 130           70 - 130	pe: To Batch RPD 6 2	tal/N/ : 8210 RPI Limi 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Sanalyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	LCSD L %Recovery Q 95		Added 1000 1000 Limits 70 - 130	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130	pe: To Batch RPD 6 2	tal/N/ : 8210 RPI Limi 20
Lab Sample ID: LCSD 880-8210/3         Matrix: Solid         Analysis Batch: 8175         Analyte         Basoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         I-Chlorooctane         P-Terphenyl         Lab Sample ID: 890-1267-1 MS	LCSD L %Recovery Q 95		Added 1000 1000 Limits 70 - 130	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty           Prep           %Rec.           Limits           70 - 130           70 - 130	pe: To Batch RPD 6 2 2	tal/N/ : 8210 RPI Limi 20 20
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 890-1267-1 MS Matrix: Solid	LCSD L %Recovery Q 95		Added 1000 1000 Limits 70 - 130	Result 816.1		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	pe: To Batch RPD 6 2 2	tal/N/ : 8210 RPI Limi 20 20 PH07 tal/N/
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 890-1267-1 MS Matrix: Solid	LCSD L %Recovery Q 95	ualifier	Added 1000 1000 Limits 70 - 130	Result 816.1 876.2		Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130	pe: To Batch RPD 6 2 2 ple ID: pe: To	tal/NA : 8210 RPE Limi 20 20 PH01 tal/NA
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD L %Recovery Q 95 88	ample	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 816.1 876.2 MS	Qualifier	Unit mg/Kg		%Rec82	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Client Sam Prep Ty Prep	pe: To Batch RPD 6 2 2 ple ID: pe: To	tal/N/ : 8210 RPI Limi 20 20 PH01 tal/N/
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8175	LCSD L %Recovery Q 95 88 Sample S	ample	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b>	Result 816.1 876.2 MS	Qualifier MS Qualifier	Unit mg/Kg mg/Kg	<u>D</u>	<mark>%Rec</mark> 82 88	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Client Sam Prep Ty Prep %Rec.	pe: To Batch RPD 6 2 2 ple ID: pe: To	tal/NA : 8210 RPE Limi 20 20 PH01 tal/NA
Lab Sample ID: LCSD 880-8210/3 Matrix: Solid Analysis Batch: 8175 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: 890-1267-1 MS Matrix: Solid Analysis Batch: 8175 Analyte	LCSD L %Recovery Q 95 88 Sample S Result Q	ample	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 816.1 876.2 MS Result	Qualifier MS Qualifier	Unit mg/Kg mg/Kg	<u>D</u>	%Rec 88 %Rec	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 Client Sam Prep Ty Prep %Rec. Limits	pe: To Batch RPD 6 2 2 ple ID: pe: To	tal/NA : 8210 RPC Limit 20 20 PH01 tal/NA

Lab Sample ID: 890-1267-1 MS

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

### Job ID: 890-1267-1 SDG: 31403236.022.0129

Client Sample ID: PH01 Prep Type: Total/NA Prep Batch: 8210

**Client Sample ID: PH01** 

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 8175			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	90		70 - 130

# Lab Sample ID: 890-1267-1 MSD Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analysis Batch: 8175									Pre	p Batch	: 8210
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U F1	999	<50.0	U F1	mg/Kg		0.8	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U F1	999	<50.0	U F1	mg/Kg		0.7	70 - 130	8	20
C10-C28)											
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: MB 880-8111/1-A											Client S	Sample ID:	Method	l Blank
Matrix: Solid												Prep	Type: S	Soluble
Analysis Batch: 8150														
		MB	МВ											
Analyte	R	esult	Qualifier		RL		Uni	t	D	Р	repared	Analyz	zed	Dil Fac
Chloride	~	<5.00	U		5.00		mg/	Kg				09/21/21	01:18	1
Lab Sample ID: LCS 880-8111/2-A									Cli	ent	Sample	e ID: Lab C	ontrol S	Sample
Matrix: Solid													Type: S	
Analysis Batch: 8150														
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		249.3		mg/Kg		_	100	90 - 110		
Lab Sample ID: LCSD 880-8111/3-4								CI	ient S	Sam	nple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid													Type: S	
Analysis Batch: 8150														
· · · · · · · · · · · · · · · · · · ·				Spike		LCSD	LCSD					%Rec.		RPD
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		250.1		mg/Kg		_	100	90 - 110	0	20
Lab Sample ID: 890-1266-A-1-C MS	5										Client	Sample ID	: Matrix	Spike
Matrix: Solid													Type: S	
Analysis Batch: 8150													1	
	Sample	Sam	ple	Spike		MS	MS					%Rec.		
Analyte	Result	Qual	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	991			1260		2245		mg/Kg		_	99	90 - 110		

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Client: WSP USA Inc.

Project/Site: Remuda 100

# **QC Sample Results**

Job ID: 890-1267-1 SDG: 31403236.022.0129

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1266-A-1-	D MSD									pike Dup	aluhla
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 8150	Comula	Commis	Cuilco	MOD	Men				0/ Dee		000
Analyta	-	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Analyte Chloride			1260	2247	Quaimer	mg/Kg		100	90 - 110	0	20
	001		1200			mg/rtg		100	00-110	0	20
Lab Sample ID: 890-1268-A-3-	C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: S	
Analysis Batch: 8150											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	207		249	475.7		mg/Kg		108	90 _ 110		
Г											
Lab Sample ID: 890-1268-A-3-	D MSD					С	lient Sa	ample ID	D: Matrix S		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 8150	<b>.</b> .	<u> </u>	• "						~ <b>-</b>		
Amelute		Sample	Spike		MSD	11	<b>_</b>	0/ Dee	%Rec.	000	RPD
Analyte		Qualifier	Added	475.7	Qualifier	Unit	D	%Rec	Limits	0	
Chloride	207		249	475.7		mg/Kg		108	90 - 110	0	20
Lab Sample ID: MB 880-8123/	1-A							Client S	Sample ID:	Method	Blank
Matrix: Solid										Type: S	
										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analysis Batch: 8272											
Analysis Batch: 8272		MB MB									
	Re	MB MB esult Qualifier		RL	Unit		D P	repared	Analyz	zed	Dil Fac
Analyte Chloride	<			<b>RL</b> 5.00	Unit mg/Kg			repared	Analyz 09/23/21	10:04	1
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid	<	esult Qualifier							09/23/21	10:04	1 ample
Analyte Chloride Lab Sample ID: LCS 880-8123	<	esult Qualifier	Spike	5.00					09/23/21	10:04	1 ample
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid	<	esult Qualifier	Spike Added	5.00	mg/Kg				09/23/21 e ID: Lab Co Prep	10:04	1 ample
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272	<	esult Qualifier	•	5.00	mg/Kg	3	Client	t Sample	09/23/21 e ID: Lab Co Prep %Rec.	10:04	1 ample
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte	<	esult Qualifier	Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	* Sample %Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110	10:04 ontrol Sa Type: Sa	1 ample oluble
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte		esult Qualifier	Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	* Sample %Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro	10:04 ontrol Sampl	1 ample oluble e Dup
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid		esult Qualifier	Added	5.00 LCS Result	mg/Kg	Unit mg/Kg	Client	* Sample %Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro	10:04 ontrol Sa Type: Sa	1 ample oluble e Dup
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812		esult Qualifier	Added 250	5.00 LCS Result 262.4	LCS Qualifier	Unit mg/Kg	Client	* Sample %Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep	10:04 ontrol Sampl	1 ample oluble e Dup oluble
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272		esult Qualifier	Added 250 Spike	5.00 LCS Result 262.4	LCS Qualifier	Unit mg/Kg Clie	Client	%Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	10:04 ontrol Sa Type: So ol Sampl Type: So	1 ample oluble e Dup oluble RPD
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte		esult Qualifier	Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result	LCS Qualifier	Unit mg/Kg Clie Unit	Client	%Rec 105 %Rec %Rec	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits	10:04 ontrol Sa Type: So ol Sampl Type: So 	1 ample oluble e Dup oluble RPD Limit
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272		esult Qualifier	Added 250 Spike	5.00 LCS Result 262.4	LCS Qualifier	Unit mg/Kg Clie	Client	%Rec 105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec.	10:04 ontrol Sa Type: So ol Sampl Type: So	1 ample oluble e Dup oluble RPD
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride	23/3-A	esult Qualifier	Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result	LCS Qualifier	Unit mg/Kg Clie Unit	Client	* Sample ************************************	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110	10:04 ontrol Sample DI Sample Type: Sample RPD 0	1 ample oluble e Dup oluble RPD Limit 20
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4-	23/3-A	esult Qualifier	Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result	LCS Qualifier	Unit mg/Kg Clie Unit	Client	* Sample ************************************	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110 Sample ID	10:04 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid	23/3-A	esult Qualifier	Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result	LCS Qualifier	Unit mg/Kg Clie Unit	Client	* Sample ************************************	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110 Sample ID	10:04 ontrol Sample DI Sample Type: Sample RPD 0	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4-	23/3-A	esult Qualifier 5.00 U	Added 250 Spike Added 250	5.00 LCS Result 262.4 LCSD Result 263.2	LCS Qualifier	Unit mg/Kg Clie Unit	Client	* Sample ************************************	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110 Sample ID	10:04 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid	5/2-A 23/3-A -C MS Sample	esult Qualifier	Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2	LCS Qualifier Qualifier	Unit mg/Kg Clie Unit	Client	* Sample ************************************	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep	10:04 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid Analysis Batch: 8272	5/2-A 23/3-A -C MS Sample	esult Qualifier 5.00 U	Added 250 Spike Added 250 Spike	5.00 LCS Result 262.4 LCSD Result 263.2	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam	%Rec 105 nple ID: 1 %Rec 105 Client	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec.	10:04 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte         Chloride         Lab Sample ID: LCS 880-8123         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: LCSD 880-812         Matrix: Solid         Analysis Batch: 8272         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: 890-1266-A-4-         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride	5/2-A 23/3-A 23/3-A -C MS 	esult Qualifier 5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam	%Rec 105 nple ID: 1 %Rec 105 Client	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits	10:04 ontrol Sample ol Sample Type: Sample RPD 0 : Matrix	1 ample oluble e Dup oluble RPD Limit 20 Spike
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid Analysis Batch: 8272 Analyte	5/2-A 23/3-A 23/3-A -C MS 	esult Qualifier 5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam D D	%Rec           105           nple ID: 1           %Rec           105           Client           %Rec           105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits	10:04 ontrol Sampl Di Sampl Type: Sampl RPD 0 : Matrix Type: Sampl 0	1 ample oluble e Dup oluble RPD Limit 20 Spike oluble
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid Analysis Batch: 8272 Analyte Chloride	5/2-A 23/3-A 23/3-A -C MS 	esult Qualifier 5.00 U	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam D D	%Rec           105           nple ID: 1           %Rec           105           Client           %Rec           105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	10:04 ontrol Sampl Di Sampl Type: Sampl RPD 0 : Matrix Type: Sampl 0	1 ample oluble e Dup oluble RPD Limit 20 Spike oluble oluble
Analyte         Chloride         Lab Sample ID: LCS 880-8123         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: LCSD 880-812         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: 890-1266-A-4-         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: 890-1266-A-4-         Matrix: Solid         Analysis Batch: 8272         Analyte         Chloride         Lab Sample ID: 890-1266-A-4-	23/3-A       23/3-A       •C MS       Sample       Result       353       •D MSD	esult Qualifier 5.00 U Sample Qualifier	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam D D	%Rec           105           nple ID: 1           %Rec           105           Client           %Rec           105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	10:04 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Spike oluble oluble
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid	5/2-A 23/3-A 23/3-A -C MS 	esult Qualifier 5.00 U Sample Qualifier	Added 250 Spike Added 250 Spike Added	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result 614.5	LCS Qualifier Qualifier MS	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam D D	%Rec           105           nple ID: 1           %Rec           105           Client           %Rec           105	09/23/21 e ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110	10:04 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Spike oluble oluble
Analyte Chloride Lab Sample ID: LCS 880-8123 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: LCSD 880-812 Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid Analysis Batch: 8272 Analyte Chloride Lab Sample ID: 890-1266-A-4- Matrix: Solid	23/3-A 23/3-A C MS Sample Result 353 D MSD Sample	esult Qualifier 5.00 U Sample Qualifier	Added 250 Spike Added 250 Spike Added 250	5.00 LCS Result 262.4 LCSD Result 263.2 MS Result 614.5	LCS Qualifier MS Qualifier	Unit mg/Kg Clie Unit mg/Kg	Client D ent Sam D D	%Rec           105           nple ID: 1           %Rec           105           Client           %Rec           105	09/23/21 a ID: Lab Co Prep %Rec. Limits 90 - 110 Lab Controc Prep %Rec. Limits 90 - 110 Sample ID Prep %Rec. Limits 90 - 110 Control Prep	10:04 Type: S	1 ample oluble e Dup oluble RPD Limit 20 Spike oluble oluble

Client: WSP USA Inc. Project/Site: Remuda 100 Job ID: 890-1267-1 SDG: 31403236.022.0129

# GC VOA

### Prep Batch: 8063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8063/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8063/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8063/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### Prep Batch: 8064

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-1267-1	PH01	Total/NA	Solid	5035		
890-1267-2	PH01A	Total/NA	Solid	5035		8
890-1267-3	PH02	Total/NA	Solid	5035		
890-1267-4	PH02A	Total/NA	Solid	5035		9
890-1267-5	PH03	Total/NA	Solid	5035		
890-1267-6	PH03A	Total/NA	Solid	5035		
890-1267-7	PH04	Total/NA	Solid	5035		
890-1267-8	PH04A	Total/NA	Solid	5035		
890-1267-9	PH05	Total/NA	Solid	5035		
890-1267-10	PH05A	Total/NA	Solid	5035		
MB 880-8064/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-8064/1-A	Lab Control Sample	Total/NA	Solid	5035		4.9
LCSD 880-8064/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
890-1267-1 MS	PH01	Total/NA	Solid	5035		
890-1267-1 MSD	PH01	Total/NA	Solid	5035		

### Analysis Batch: 8086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-1	PH01	Total/NA	Solid	8021B	8064
890-1267-2	PH01A	Total/NA	Solid	8021B	8064
890-1267-3	PH02	Total/NA	Solid	8021B	8064
890-1267-4	PH02A	Total/NA	Solid	8021B	8064
890-1267-5	PH03	Total/NA	Solid	8021B	8064
890-1267-6	PH03A	Total/NA	Solid	8021B	8064
890-1267-7	PH04	Total/NA	Solid	8021B	8064
890-1267-8	PH04A	Total/NA	Solid	8021B	8064
890-1267-9	PH05	Total/NA	Solid	8021B	8064
890-1267-10	PH05A	Total/NA	Solid	8021B	8064
MB 880-8063/5-A	Method Blank	Total/NA	Solid	8021B	8063
MB 880-8064/5-A	Method Blank	Total/NA	Solid	8021B	8064
LCS 880-8063/1-A	Lab Control Sample	Total/NA	Solid	8021B	8063
LCS 880-8064/1-A	Lab Control Sample	Total/NA	Solid	8021B	8064
LCSD 880-8063/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8063
LCSD 880-8064/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8064
890-1267-1 MS	PH01	Total/NA	Solid	8021B	8064
890-1267-1 MSD	PH01	Total/NA	Solid	8021B	8064

## GC Semi VOA

### Prep Batch: 8157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bato	:h
890-1267-6	PH03A	Total/NA	Solid	8015NM Prep	_
890-1267-7	PH04	Total/NA	Solid	8015NM Prep	
890-1267-8	PH04A	Total/NA	Solid	8015NM Prep	
890-1267-9	PH05	Total/NA	Solid	8015NM Prep	

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Client: WSP USA Inc. Project/Site: Remuda 100

# GC Semi VOA (Continued)

### Prep Batch: 8157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-10	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-8157/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8157/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1288-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1288-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 8175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-1	PH01	Total/NA	Solid	8015B NM	8210
890-1267-2	PH01A	Total/NA	Solid	8015B NM	8210
890-1267-3	PH02	Total/NA	Solid	8015B NM	8210
890-1267-4	PH02A	Total/NA	Solid	8015B NM	8210
890-1267-5	PH03	Total/NA	Solid	8015B NM	8210
MB 880-8210/1-A	Method Blank	Total/NA	Solid	8015B NM	8210
LCS 880-8210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8210
LCSD 880-8210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8210
890-1267-1 MS	PH01	Total/NA	Solid	8015B NM	8210
890-1267-1 MSD	PH01	Total/NA	Solid	8015B NM	8210

### Analysis Batch: 8185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-6	PH03A	Total/NA	Solid	8015B NM	8157
890-1267-7	PH04	Total/NA	Solid	8015B NM	8157
890-1267-8	PH04A	Total/NA	Solid	8015B NM	8157
890-1267-9	PH05	Total/NA	Solid	8015B NM	8157
890-1267-10	PH05A	Total/NA	Solid	8015B NM	8157
MB 880-8157/1-A	Method Blank	Total/NA	Solid	8015B NM	8157
LCS 880-8157/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8157
LCSD 880-8157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8157
890-1288-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	8157
890-1288-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8157

### Prep Batch: 8210

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1267-1	PH01	Total/NA	Solid	8015NM Prep	
890-1267-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1267-3	PH02	Total/NA	Solid	8015NM Prep	
890-1267-4	PH02A	Total/NA	Solid	8015NM Prep	
890-1267-5	PH03	Total/NA	Solid	8015NM Prep	
MB 880-8210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1267-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-1267-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

### HPLC/IC

### Leach Batch: 8111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-1	PH01	Soluble	Solid	DI Leach	

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### Job ID: 890-1267-1 SDG: 31403236.022.0129

Client: WSP USA Inc. Project/Site: Remuda 100

HPLC/IC (Continued)

### Leach Batch: 8111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-2	PH01A	Soluble	Solid	DI Leach	
890-1267-3	PH02	Soluble	Solid	DI Leach	
890-1267-4	PH02A	Soluble	Solid	DI Leach	
890-1267-5	PH03	Soluble	Solid	DI Leach	
MB 880-8111/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8111/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8111/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1266-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1266-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1268-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1268-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Leach Batch: 8123

LC3D 000-0111/3-A	Lab Control Sample Dup	Soluble	Soliu	DILEach		
890-1266-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach		8
890-1266-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
890-1268-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach		9
890-1268-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Leach Batch: 8123						10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	44
890-1267-6	PH03A	Soluble	Solid	DI Leach		
890-1267-7	PH04	Soluble	Solid	DI Leach		12
890-1267-8	PH04A	Soluble	Solid	DI Leach		
890-1267-9	PH05	Soluble	Solid	DI Leach		12
890-1267-10	PH05A	Soluble	Solid	DI Leach		13
MB 880-8123/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-8123/2-A	Lab Control Sample	Soluble	Solid	DI Leach		14
LCSD 880-8123/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-1266-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach		
890-1266-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		

### Analysis Batch: 8150

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1267-1	PH01	Soluble	Solid	300.0	8111
890-1267-2	PH01A	Soluble	Solid	300.0	8111
890-1267-3	PH02	Soluble	Solid	300.0	8111
890-1267-4	PH02A	Soluble	Solid	300.0	8111
890-1267-5	PH03	Soluble	Solid	300.0	8111
MB 880-8111/1-A	Method Blank	Soluble	Solid	300.0	8111
LCS 880-8111/2-A	Lab Control Sample	Soluble	Solid	300.0	8111
LCSD 880-8111/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8111
890-1266-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	8111
890-1266-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8111
890-1268-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	8111
890-1268-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8111

### Analysis Batch: 8272

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1267-6	PH03A	Soluble	Solid	300.0	8123
890-1267-7	PH04	Soluble	Solid	300.0	8123
890-1267-8	PH04A	Soluble	Solid	300.0	8123
890-1267-9	PH05	Soluble	Solid	300.0	8123
890-1267-10	PH05A	Soluble	Solid	300.0	8123
MB 880-8123/1-A	Method Blank	Soluble	Solid	300.0	8123
LCS 880-8123/2-A	Lab Control Sample	Soluble	Solid	300.0	8123
LCSD 880-8123/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8123
890-1266-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	8123

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Job ID: 890-1267-1

SDG: 31403236.022.0129

Client: WSP USA Inc.	Job ID: 890-1267-1
Project/Site: Remuda 100	SDG: 31403236.022.0129

# HPLC/IC (Continued)

### Analysis Batch: 8272 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-1266-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8123	

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# Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 100

### **Client Sample ID: PH01** Date Collected: 09/16/21 12:20

Date Received: 09/17/21 09:01

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 06:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8175	09/21/21 21:21	AJ	XEN MID
Soluble	Leach	DI Leach			8111	09/20/21 10:34	CA	XEN MID
Soluble	Analysis	300.0		5	8150	09/21/21 02:03	СН	XEN MID

### **Client Sample ID: PH01A** Date Collected: 09/16/21 12:25 Date Received: 09/17/21 09:01

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 06:21	MR	XEN MID
Total/NA	Prep	8015NM Prep			8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8175	09/21/21 22:22	AJ	XEN MID
Soluble	Leach	DI Leach			8111	09/20/21 10:34	CA	XEN MID
Soluble	Analysis	300.0		1	8150	09/21/21 02:08	CH	XEN MID

# **Client Sample ID: PH02**

### Date Collected: 09/16/21 12:35 Date Received: 09/17/21 09:01

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 06:41	MR	XEN MID
Total/NA	Prep	8015NM Prep			8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8175	09/21/21 22:42	AJ	XEN MID
Soluble	Leach	DI Leach			8111	09/20/21 10:34	CA	XEN MID
Soluble	Analysis	300.0		5	8150	09/21/21 02:25	СН	XEN MID

### **Client Sample ID: PH02A** Date Collected: 09/16/21 12:40 Date Received: 09/17/21 09:01

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 07:01	MR	XEN MID
Total/NA	Prep	8015NM Prep			8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8175	09/21/21 23:02	AJ	XEN MID
Soluble	Leach	DI Leach			8111	09/20/21 10:34	CA	XEN MID
Soluble	Analysis	300.0		1	8150	09/21/21 02:31	СН	XEN MID

# Matrix: Solid

# Lab Sample ID: 890-1267-1 Matrix: Solid

SDG: 31403236.022.0129

Job ID: 890-1267-1

Lab Sample ID: 890-1267-3

Lab Sample ID: 890-1267-2

Matrix: Solid

### Lab Sample ID: 890-1267-4 Matrix: Solid

# Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 100

### **Client Sample ID: PH03** Date Collected: 09/16/21 13:45

Date Received: 09/17/21 09:01

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 07:22	MR	XEN MID
Total/NA	Prep	8015NM Prep			8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8175	09/21/21 23:22	AJ	XEN MID
Soluble	Leach	DI Leach			8111	09/20/21 10:34	CA	XEN MID
Soluble	Analysis	300.0		5	8150	09/21/21 02:36	СН	XEN MID

### **Client Sample ID: PH03A** Date Collected: 09/16/21 13:50 Date Received: 09/17/21 09:01

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 07:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			8157	09/20/21 16:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8185	09/21/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			8123	09/20/21 12:11	СН	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:43	CH	XEN MID

# **Client Sample ID: PH04**

### Date Collected: 09/16/21 13:55 Date Received: 09/17/21 09:01

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 08:03	MR	XEN MID
Total/NA	Prep	8015NM Prep			8157	09/20/21 16:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8185	09/21/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			8123	09/20/21 12:11	СН	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:49	СН	XEN MID

### **Client Sample ID: PH04A** Date Collected: 09/16/21 14:03 Date Received: 09/17/21 09:01

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 08:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			8157	09/20/21 16:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8185	09/21/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			8123	09/20/21 12:11	СН	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:55	СН	XEN MID

Lab Sample ID: 890-1267-7

# Lab Sample ID: 890-1267-8

Matrix: Solid

Matrix: Solid

Eurofins Xenco, Carlsbad

Job ID: 890-1267-1 SDG: 31403236.022.0129

# Lab Sample ID: 890-1267-5 Matrix: Solid

Lab Sample ID: 890-1267-6

5 9 Matrix: Solid

Job ID: 890-1267-1

Matrix: Solid

Matrix: Solid

**5** 6

9

SDG: 31403236.022.0129

Lab Sample ID: 890-1267-9

Lab Sample ID: 890-1267-10

# Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 100

# Client Sample ID: PH05

Date Collected: 09/16/21 12:50 Date Received: 09/17/21 09:01

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 08:43	MR	XEN MID
Total/NA	Prep	8015NM Prep			8157	09/20/21 16:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8185	09/21/21 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			8123	09/20/21 12:11	СН	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 11:12	СН	XEN MID

### Client Sample ID: PH05A Date Collected: 09/16/21 12:55 Date Received: 09/17/21 09:01

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8064	09/18/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	8086	09/19/21 09:04	MR	XEN MID
Total/NA	Prep	8015NM Prep			8157	09/20/21 16:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1	8185	09/21/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			8123	09/20/21 12:11	СН	XEN MID
Soluble	Analysis	300.0		1	8272	09/23/21 11:17	СН	XEN MID

### Laboratory References:

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

Eurofins Xenco, Carlsbad

**Released to Imaging: 12/1/2021 3:36:39 PM** 

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### Job ID: 890-1267-1 SDG: 31403236.022.0129

### Laboratory: Eurofins Xenco, Midland

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

ithority	Pi	ogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-21-22	06-30-22
the agency does not of		at the laboratory is not certin	ied by the governing authority. This list ma	ay include affailytes for t
0,	Prep Method	Matrix	Analyte	
Analysis Method 8015B NM		Matrix Solid	Analyte Total TPH	

# **Method Summary**

Client: WSP USA Inc. Project/Site: Remuda 100 Job ID: 890-1267-1 SDG: 31403236.022.0129

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

### Protocol References:

ASTM = ASTM International

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

### Laboratory References:

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

# **Sample Summary**

Client: WSP USA Inc. Project/Site: Remuda 100 Job ID: 890-1267-1 SDG: 31403236.022.0129

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	Depth	
90-1267-1	PH01	Solid	09/16/21 12:20	09/17/21 09:01	1	
90-1267-2	PH01A	Solid	09/16/21 12:25	09/17/21 09:01	2	
90-1267-3	PH02	Solid	09/16/21 12:35	09/17/21 09:01	1	
90-1267-4	PH02A	Solid	09/16/21 12:40	09/17/21 09:01	2	
90-1267-5	PH03	Solid	09/16/21 13:45	09/17/21 09:01	1	
90-1267-6	PH03A	Solid	09/16/21 13:50	09/17/21 09:01	2	
90-1267-7	PH04	Solid	09/16/21 13:55	09/17/21 09:01	1	
90-1267-8	PH04A	Solid	09/16/21 14:03	09/17/21 09:01	2	
90-1267-9	PH05	Solid	09/16/21 12:50	09/17/21 09:01	1	
90-1267-10	PH05A	Solid	09/16/21 12:55	09/17/21 09:01	2	
						-
						-

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					Ch	ain	ofO	Chain of Custodv			×	ork Or	Work Order No:			
X	(MNCO		Houston,	TX (281) 240-420 TX (432-704-54	0 Dallas	s,TX (21) aso,TX	4) 902-03 (915)585	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-333 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	X (210) 509-3334 X (806)794-1296							
		Hobb	s,NM (575-392-	7550) Phoenix,A	Z (480-3	55-0900	) Atlanta	Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) T	0) Tampa,FL (813-620-2000)	3-620-2000)	×	www.xenco.com	co.com	- age	'          	
Project Manager:	Dan Moir			DIII (U. (IT dimerent)		Adnan Baker	Ker					ALC: V		ā		
Company Name: V	WSP Permian office			Company Name		XTO Energy	ſġy			Program:	Program: UST/PST		rownfields	ields []RC	℃ ¶perfund	
Address: 3	3300 North A Street			Address:		04 E G	3104 E Green Street	eet		State	State of Project:					I
e ZIP:	Midland, Tx 79705		0	City, State ZIP:	C <sup>2</sup>	Irlsbad,	Carlsbad, NM, 88220	220		Reporting:Level II		evel III			DRP (Bvel IV	
	(432) 236-3849		Email: E	Email: Elliot.Lee@wsp.com, Kalei.Jennings@wsp.com	.com, K	alei.Jer	nings@	wsp.com		Deliverables: EDD	les: EDD	þ	ADaPT	þ	Other:	
Project Name:	Remuda 100	la 100	Tur	Turn Around	$\setminus$			AN	ANALYSIS REQUEST	IEST				Wo	Work Order Notes	
Project Number:	31403236.022.0129	.022.0129	Routine	ē	_									Cost Cen	Cost Center # 1067621001	
P.O. Number:			Rush:											Incident #	Incident # NAPP2121445163	163
Sampler's Name:	Elliot Lee	Lee	Due Date:	ate:												
SAMPLE RECEIPT	Temp Blank:	nk: res No	Wet Ice:	Xes No												
Temperature (°C):	0.8/0.6	,	Thermometer ID		iner		))									
Received Intact:	res No	TINI	5-00-					-	890-1267 Chair	Chain of Custody	-					
Cooler Custody Seals:	Yes No MA	1	Correction Factor:	1.01		_	_							TAT start	TAT starts the day recevied by the lab. if received by 4:30pm	the
Sample Identification	K,	Dat	Time	Depth	Imbe	H (EP 	loride							San	Sample Comments	
PHO1	'n	9/16/2021	12-20		+	-+-	-+-		-+	-+		-			Discrete	
PH01A		9/16/2021	12:25	2'	_	-									Discrete	
PH02		9/16/2021	12:35	1'	<u> </u>	××									Discrete	
PH02A	s	9/16/2021	12:40	2		××	×					-			Discrete	
PH03	S	9/16/2021	13:45			××	×					-			Discrete	
PH03A	s	9/16/2021	13:50	2		××	×								Discrete	
PH04	s	9/16/2021	13:55	- <u>-</u>		××	×			-		-			Discrete	
PH04A	s	9/16/2021	14:03	Ŋ		××	×								Discrete	
PH05	s	9/16/2021	12:50	<u>-</u>	<u> </u>	××	×					-			Discrete	
PH05A	s	9/16/2021	12:55	Ņ		×××	×					-			Discrete	
Total 200.7 / 6010	0 200.8 / 6020:		8RCRA 13PPM	Te	AI Sb	As	Ba Be	B Cd Ca Cr	Co Cu Fe	Pb Mg Mn	Mn Mo Ni K	Se Ag	SiO2 Na	a Sr TI S	TI Sn U V Zn	
Circle Method(s)	Circle Method(s) and Metal(s) to be analyzed	analyzed	TCLP / SPLP 6010:	P 6010: 8RCRA	RA Sb	Αs	Ba Be	Cd Cr Co Cu	Pb Mn Mo Ni Se	B	ΠU		16;	34 / 245.1	1631/245.1/7470/7471	Ъ
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Service. A minimum charge of \$75,00 will be applied to each project and a charge of \$7 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	nature of this document and relinquishment of samples constitutes a valid purchase order from client company to X Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, b	it of samples const mples and shail no to each project an	titutes a valid pur t assume any res nd a charge of \$5	chase order from ponsibility for any for each sample s	client cor / losses o ubmitted	mpany to or expens to Xenco	Xenco, it es incurn , but not	(enco, its affiliates and subcontra s incurred by the client if such lo but not analyzed. These terms w	contractors. It assigns stan ich losses are due to circur ms will be enforced unless	gns standard te to circumstance l unless previou	idard terms and condi instances beyond the c previously negotiated	litions control 1.				
Relinquished by: (Signature)	Signature)	Received	Received by: (Signature)	e)	D	Date/Time	9	Relinquished	hed by: (Signature)	ture)	Receiv	ed by: (	Received by: (Signature)	e)	Date/Time	
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# 13



1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Client Information (Sub Contract Lab) Client Contact Client Contact Chipping/Receiving	CI Sampler	Chain of Custody Record	Custo	idy Re	cord							🐝 eurofins		Environment Testing America
NM 88220 75-988-3199 Fax 575-988-3199 Information (Sub Contract Lab)								a nation and the second	. 1969 2020 2020 10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	19)		Americ	, 2
ion (Sub Contract Lab)	ampler-													
				Lab PM Krame	Lab PM Kramer Jessica			Ca	Carrier Tracking No(s)	g No(s)		COC No: 890-411 1		
Company:	Phone			E-Mail	kramer@	E-Mail jessica kramer@eurofinset com	com	Sta	State of Origin New Mexico			Page: Page 1 of 2		
Eurofins Xenco				N AC	creditations	Accreditations Required (See note): NELAP - Louisiana NELAP	Accreditations Required (See note): NELAP - Louisiana NELAP - Texas					Job # <sup>.</sup> 890-1267-1		
Address p 1211 W Florida Ave 9	Due Date Requested 9/20/2021						Analys	Analvsis Requested	reted			Preservation Codes	odes	
City Midland	TAT Requested (days):	÷		. State	¥.4.3					1		A - HCL B NaOH C 7n Acetate	M Hexane	ane e
State, Zip TX, 79701					000000000000000000000000000000000000000						in file Star Sector	E NaHSO4		04S 04S
Phone 432-704-5440(Tel)	PO #					e							עמו	Na2S2O3 H2SO4
Email W	WO #·			orNo	lo)	Chloric					NGPR-SPL	I Ice J DI Water	< c -	Acetone
Project Name P Remuda 100 8	Project # 89000004			Yes	s or l						Constant/Mar	K-EDTA L EDA	W pH 4-5 Z other (sp	pH 4-5 other (specify)
Sile:	SSOW#:			Sample	SD (Ye						08000000000	Other <sup>.</sup>		
	<u>,                                     </u>	s		Matrix (W=water Filtered	m MS/N 10D_NM/8	RGFM_28					Number			
Sample Identification - Client ID (Lab ID)	Sample Date	Time G	G=grab) BT=T	BT=Tissue, A=Air)	Pe						Tot	Special	Special Instructions/Note:	ons/Note:
	X		. 6	i Code: 🗙	X						X			
PH01 (890-1267-1)	9/16/21 N	12 20 Mountain	-	Solid	×	x x								
PH01A (890-1267-2)	9/16/21 N	12 25 Mountain		Solid	×	× ×					( بغير.			
PH02 (890-1267-3)	9/16/21 N	12 35 Mountain		Solid	×	× ×					<u>A</u>			
PH02A (890-1267-4)	9/16/21 N	12 40 Mountain		Solid	×	× ×			+					
PH03 (890-1267-5)	9/16/21 N	13 45 Mountain		Solid	×	× ×					4			
PH03A (890-1267-6)	9/16/21	13 50 Mountain		Solid	×	× ×					À			
PH04 (890-1267-7)	9/16/21 N	13 55 Mountain		Solid	×	× ×					<i>2</i> -1			<b>1</b>
PH04A (890-1267-8)	9/16/21 N	14 03 Mountain		Solid	×	× ×					الحضر ا			
PH05 (890-1267-9)	9/16/21 N	12 50 Mountain		Solid	×	× ×								
Note: Since (aboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	nco LLC places the ownership of method analyte & accreditation compliance upon out su Is/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC la return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	method analyte ples must be shi dy attesting to s	& accreditation ipped back to the total complicance	n compliance u he Eurofins Xe æ to Eurofins >	upon out sub Inco LLC lat Kenco LLC.	ocontract lab	oratories. Th her instructio	is sample sh ns will be prc	pment is for vided Any	warded unde changes to a	er chain-of-cu	status should be I	oratory does n brought to Eu	not currently Irofins Xenco LLC
Possible Hazard Identification					Sample	Sample Disposal ( A f	(A fee m	ay be ass	essed if s	amples a	re retaine	ee may be assessed if samples are retained longer than 1 month)	n 1 month)	
Deliverable Requested 1 II III, IV Other (specify) P	Primary Deliverable Rank	le Rank 2			Snecial	Return To Client	lient	Disj	Disposal By Lab	ab	Arch	Archive For	Mon	Months
Empty Kit Relinguished by	D	Date			Time				Method o	Method of Shipment:				
Relinquished by Cue Cub 9.17.2	Date/Time		Соп	Company	Rece	Received by:	X		ŀ	Datering	10/6	11-12)	(edudo	1001
Relinquished by C	Date/Time		Corr	Company	Rece	Received by	Ľ			Date/Time			Company	ny

**Relinquished by** 

Date/Time

Company

Received by

Date/Time

Company

Ver 06/08/2021

Cooler Temperature(s) °C and Other Remarks.

Custody Seals Intact: ∆ Yes ∆ No

Custody Seal No

		Π	
	1089 N Canal St		
	Call	2	5
	SDau	2	
			8
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# Chain of Custody Record

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Seurofins Environment Testing

	Relinquished by Date/Time	Relinquished by Date/Time	reminquished by Cive Cert 9.17.2, Date/Time	linquished by	i iii iv Other (specity)		Possible Hazard Identification	maintain accreditation in the State of Origin listed above for analysis/tests/matrix beings and/cache of under crain-or-custody if the laboratory does not currently attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	Note: Since laboratory accreditations are subject to chance Eurofins Xenco LLC places the owner						PH05A (890-1267-10) 9/16/21		Sample Identification - Client ID (Lab ID) Sample Date	Site SSOW#:	ect Name muda 100		Phone PO #: 432-704-5440(Tel)	State, Zip TX 79701	City Midland	1211 W Florida Ave 9/20/2021	s Xenco	Shipping/Receiving	ormation (Sub Contract Lab)	Carlsbad NM 86220 Phone 575-988-3199 Fax 575-988-3199
				Date	Primary Deliverable Rank. 2			the samples must be shipp of Custody attesting to said	arshin of method analyte &						12 55 Mountain	Lå	Sample (						ed (days)	quested				
	Company	Company	Company					ed back to the Eurofins Xer complicance to Eurofins X	accreditation compliance						Solid	Preservation Code: X	Sample Matrix to Type (Wewater (C=Comp, C=wasterioli, d G=grab) B1-Tissue, A=Air)	Samp	e (Ye	s or N	2)				Ac	E-Mail: jessica	Lab PM Kramer	
Cooler Temperature/s\ °C	Received by	Received by	Received by	Time	Special Instructions/QC	Return To Client	Sample Disposal ( A fee	nco LLC laboratory or other of the second se				 			x x x	X	Perform MS/N 8015MOD_NM/8 300_ORGFM_28 8021B/5035FP_	015NM	_S_Pr	ep Full					Accreditations Required (See note) NELAP - Louisiana NELAP	E-Mail: jessica kramer@eurofinset.com	Lap PM Kramer Jessica	
e(s) °C and Other Remarks			//	K	s/QC Requirements		( A fee may be as	ratories. I his sample s ter instructions will be p																Analysis Requested	ee note) <sup>.</sup> IELAP - Texas			
arks	Date/Time	Date	Jefe C	Method of Shipment:	s	Disposal By Lab	may be assessed if samples are retained longer than 1 month)	rovided. Any changes		 		 												iested		State of Origin New Mexico	Carrier Tracking No(s)	
	Time:	ríme. /	12/34	ent:		Archive For	s are retained	Inder chain-of-custo to accreditation sta			- 11		- B	 <u> </u>		X	Total Number	1. 1. S. M. M.	2400 SW	Station of the second	I G T			hd	68 Jor	Page: Page	89	
		6	1:nn			For	longer than 1 n	ody If the laborator itus should be broug									Special Inst	Other <sup>.</sup>		er	ź.	Nitric Acid I NaHSO4		ation Cod	Job # <sup>.</sup> 89012671	Page: Page 2 of 2	COC No: 890-411 2	
	Company	Company	Countering			Months	nonth)	ry does not currently 3ht to Eurofins Xenco LL									pecial Instructions/Note.		W - pH 4-5 Z other (specify)	U Acetone V MCAA	R Na2S2O3 S H2SO4 T TSP Dodershudrate	P Na2O4S Q Na2SO3	M Hexane N None	ία				America

Yes  $\triangle$  No

Ver 06/08/2021

Job Number: 890-1267-1

SDG Number: 31403236.022.0129

List Source: Eurofins Xenco, Carlsbad

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1267 List Number: 1 Creator: Clifton, Cloe

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

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

14

Job Number: 890-1267-1

SDG Number: 31403236.022.0129

List Creation: 09/18/21 01:38 PM

List Source: Eurofins Xenco, Midland

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1267 List Number: 2 Creator: Lowe, Katie

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

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

14

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:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	57338
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2121445163 REMUDA 100 TANK BATTERY, thank you. This closure is approved.	12/1/2021

CONDITIONS

Page 71 of 71

Action 57338