

Incident ID	NAPP2121445163
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature:  Date: 10/20/2021

email: Adrian.Baker@exxonmobil.com Telephone: 432-263-3808

OCD Only

Received by: Robert Hamlet Date: 12/1/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/1/2021

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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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 Longitude -103.94264
(NAD 83 in decimal degrees to 5 decimal places)

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

Unit Letter	Section	Township	Range	County
E	25	23S	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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 0.18	Volume Recovered (bbls) 0.00
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

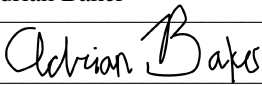
Cause of Release Production separator and heater treater dumps malfunctioned, causing a small fire from low pressure flare. A third-party contractor has been retained for remediation activities.

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
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: Adrian Baker	Title: SSHE Coordinator
Signature: 	Date: 8/2/2021
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 8/2/2021

NAPP2121445163

Location:	Remuda 100		
Spill Date:	7/26/2021		
Area 1			
Approximate Area =	1615.00	sq. ft.	
Average Saturation (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 Oil =	0.00	bbls	
Total Produced 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

Action 39296

CONDITIONS

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

CONDITIONS

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

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QUESTIONS

Action 39287

QUESTIONS

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

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	Remuda 100 Tank Battery
Date Release Discovered	07/26/2021
Surface Owner	State

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
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 style="list-style-type: none"> Incident Type is reported as fire This release resulted in a fire or was the result of a fire
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
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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.
<i>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.</i>	

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ACKNOWLEDGMENTS

Action 39287

ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a 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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I 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.

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CONDITIONS

Action 39287

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 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

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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>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

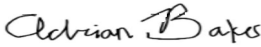
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

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Printed Name: Adrian Baker Title: Environmental CoordinatorSignature:  Date: 10/20/2021email: Adrain.Baker@exxonmobil.com Telephone: (432)-263-3808**OCD Only**

Received by: _____ Date: _____

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 items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature:  Date: 10/20/2021

email: Adrian.Baker@exxonmobil.com Telephone: 432-263-3808

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

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



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® chloride QuanTab® 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.

A handwritten signature in black ink that reads 'Kalei Jennings'.

Kalei Jennings
Associate Consultant

A handwritten signature in black ink that reads '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 1 Soil Analytical Results
Attachment 1 Lithologic/Sampling Logs
Attachment 2 Photographic Log
Attachment 3 Laboratory Analytical Reports

FIGURES

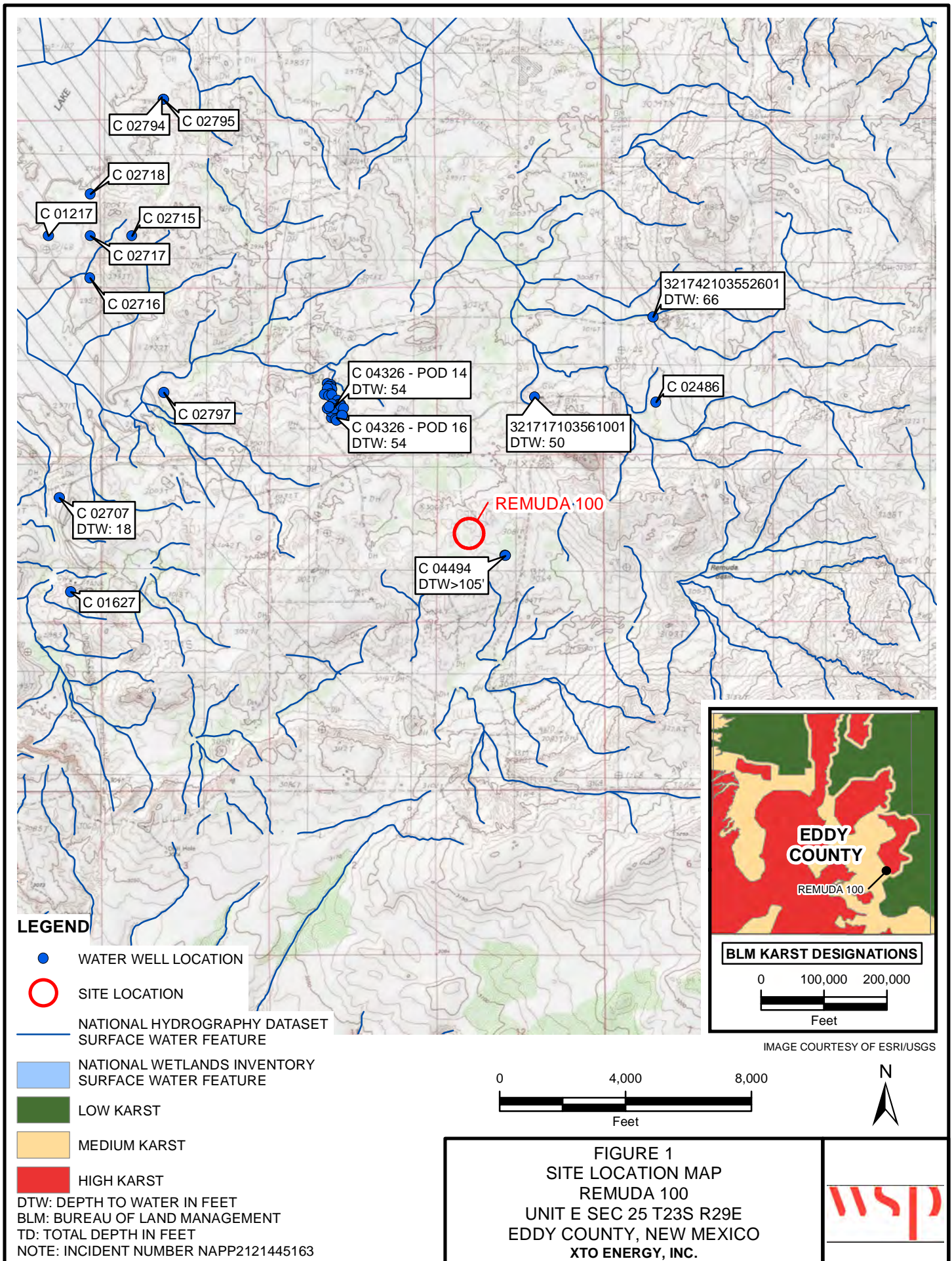



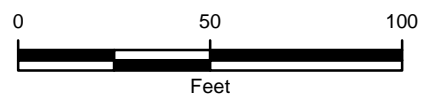




IMAGE COURTESY OF ESRI

LEGEND

-  FLARE LOCATION
-  DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  RELEASE EXTENT



NOTE: INCIDENT NUMBER NAPP2121445163
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
 REMUDA 100
 UNIT E SEC 25 T23S R29E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Samples										
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


ATTACHMENT 1: LITHOLOGIC/SAMPLING LOG


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number:		TE012919039				
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithology remarks only. No field screenings: Dry hole								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			1	SP-SC	
						2		0-1' : SAND, dry, brown, poorly graded, fine grain, Clay (10% clay), some roots, no stain, no odor
						3		
						4		1-4' : SAND, dry, reddish-light brown, poorly graded, very fine - fine grain, some rounded caliche pebbles, no stain, no odor
D			N			5	CCHE	
						6		4-9' : CALICHE, dry, light brown-tan, poorly consolidated, sub-rounded caliche pebbles and gravel, very silty, gradational
						7		
						8		9-14' : Abundant sub-round caliche gravel
						9		14-19' : Some sub-angular caliche gravel and pebbles
						10		19-24' : Abundant sub-angular caliche gravel and pebbles, moderately consolidated
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
						21		
						22		
						23		
						24		
D			N			25	CL	


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name:		Date:	
								BH01 (C-04494)		11/18/2020, 12/02/20, 01/05/2021	
								Site Name:		Remuda North 25 Observation Well	
								RP or Incident Number:			
LITHOLOGIC / SOIL SAMPLING LOG								LTE Job Number:		TE012919039	
Lat/Long:				Field Screening:				Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Hole Diameter:				Total Depth:				6.25", 4.25"		105'	
Comments: Lithology remarks only. No field screenings: Dry hole											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D			N			26	CL	24-39' : MUDSTONE, dry, reddish-brown, low plasticity, well consolidated, cohesive, trace caliche sub-angular pebbles, no tain, no odor, sharp transition 34-39' : Sub-angular calcium carbonate gravel with dissolution features (1-3mm), tan-light brown At 39' : Begin air rotary (4.25") 39-42' : DOLOMETIC LIMESTONE, tan-light brown, dry, well consolidated, with dissolution features (1-3mm), sharp, no stain, no odor, light to moderate reaction with HCl 42-45' : Some light gray dolomite with trace dissolution features (>1mm) At 48' : Stop due to air rotary refusal (11/18/20)			
						27					
						28					
						29					
						30					
						31					
						32					
						33					
						34					
						35					
						36		48-56' : Advance borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray-black banding, no stain , no odor			
						37					
						38					
						39					
						40					
						41					
						42					
						43					
						44					
						45					
						46		Refusal on 11/18/20 Restart borehole on 12/02/20			
						47					
						48					
						49					
						50					


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By BB, LAD, FS				
Lat/Long:		Field Screening:		Hole Diameter:				
				6.25", 4.25"				
				Total Depth:				
				105'				
Comments:								
Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			51	DOL	48-56' : Advanced borehole with new air rotary bit (12/02/20), DOLOMITE, white, well consolidated, dark gray- banding, no stain no odor
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		
						60		
D			N			61	CH-S	At 56' : Restarted borehole on 1/5/2021 with sonic rig 56-65' : DOLOMITE, dry, light gray-gray, well consolidated, some calcium crystalline veins (<1mm), some dissolution features (2mm) with fine calcite crystalline, trace orange oxidation staining within dissolution features, no stain, no odor 62' : Brown-pale yellow coarse crystalline dolomitic limestone stringer (2cm) 63-65' : Abundant calcite crystalline veins (<1mm), pale green-gray, poorly consolidated
						62		
						63		
						64		
						65		
						66		
						67		
						68		
						69		
						70		
D			N			71	GYP	65-69' : MUDSTONE, moist, reddish brown, poorly consolidated, high plasticity, cohesive, abundant coarse crystalline gypsum, few pale green-gray mottling, no stain, no odor 69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						72		
						73		
						74		
						75		


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021				
		Site Name:		Remuda North 25 Observation Well				
		RP or Incident Number:						
		LTE Job Number: TE012919039						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By BB, LAD, FS	Method: Hollow Stem Auger, sonic			
Lat/Long:		Field Screening:		Hole Diameter:	Total Depth:			
				6.25", 4.25"	105'			
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			76	GYP	69-81' : GYPSUM with Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor
						77		
						78		
						79		
						80		
						81	CH-S	90-98' : Some fine grain brown sand At 97' : dark gray-gray gypsum stringer (4cm)
						82		
						83		
						84		
						85		
						86		
						87		
						88		
						89		
						90		
						91		
						92		
						93		
94								
95								
96								
97								
D			N			98	GYP	
						99		
D			N			100	ML-S	


 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH01 (C-04494)		11/18/2020, 12/02/2020, 1/5/2021	
					Site Name:		Remuda North 25 Observation Well	
					RP or Incident Number:			
					LTE Job Number: TE012919039			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By BB, LAD, FS		Method: Hollow Stem Auger, sonic	
Lat/Long:			Field Screening:		Hole Diameter:		Total Depth:	
					6.25", 4.25"		105'	
Comments: Lithologic log only, no field screenings								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D			N			101	ML-S	99.5-105' : Sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor
						102		
						103		
						104		
						105		
						106		TD @ 105' bgs (1/5/2021)
						107		
						108		
						109		
						110		
						111		
						112		
						113		
						114		
						115		
						116		
						117		
						118		
						119		
						120		
						121		
						122		
						123		
						124		
						125		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH01		Date: 09/16/2021	
								Site Name: REMUDA 100			
								RP or Incident Number: NAPP2121445163			
								WSP Job Number: 31403236.022.0129			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: EL		Method: Backhoe	
Lat/Long: (32.27695, -103.94264)				Field Screening: Hach chloride strips, PID				Hole Diameter: N/A		Total Depth: 2 feet bgs	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	767	1.9	N	PH01	1	1	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
M	767	2.1	N	PH01A	2	2	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH02		Date: 09/16/2021	
								Site Name: REMUDA 100			
								RP or Incident Number: NAPP2121445163			
								WSP Job Number: 31403236.022.0129			
LITHOLOGIC / SOIL SAMPLING LOG								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, PID						
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	767	2.9	N	PH02	1	1	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
M	369	3.2	N	PH02A	2	2	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH03		Date: 09/16/2021	
								Site Name: REMUDA 100			
								RP or Incident Number: NAPP2121445163			
								WSP Job Number: 31403236.022.0129			
LITHOLOGIC / SOIL SAMPLING LOG								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, PID						
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	420	2.0	N	PH03	1	1	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
M	767	1.0	N	PH03A	2	2	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH04		Date: 09/16/2021	
								Site Name: REMUDA 100			
								RP or Incident Number: NAPP2121445163			
								WSP Job Number: 31403236.022.0129			
LITHOLOGIC / SOIL SAMPLING LOG								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, PID						
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
M	896	3.3	N	PH04	1	1	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
M	644	1.5	N	PH04A	2	2	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
TD @ 2 ft bgs											

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: PH05		Date: 09/16/2021	
								Site Name: REMUDA 100			
								RP or Incident Number: NAPP2121445163			
								WSP Job Number: 31403236.022.0129			
LITHOLOGIC / SOIL SAMPLING LOG								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, PID						
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
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	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
M	224	2.6	N	PH05A	2	2	SC	SAND, BROWN, FINE-MEDIUM GRAIN, WELL GRADED, SILTY, ABUDANT CALICHE GRAVEL & COBBEL, SOME CLAY, LOW PLASTICITY, COHESIVE			
TD @ 2 ft bgs											

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

XTO Energy, Inc.

Remuda 100
Eddy County, New Mexico

31403236.022.0129

Photo No.

Date

1

9-2-2021

View of release extent
during the initial site
visit prior to
delineation activities.



Photo No.

Date

2

9-2-2021

View of release extent
during the initial site
visit prior to
delineation activities.





PHOTOGRAPHIC LOG

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



Photo No.	Date	
3	9-16-2021	
North facing view of delineation activity on PH02.		 A yellow CAT excavator is shown in a north-facing view, performing delineation activity on a dirt surface. The excavator's arm and bucket are visible, with the bucket resting on the ground. In the background, there are industrial structures, including a large storage tank and various pipes and valves, under a clear blue sky.

Photo No.	Date	
4	9-16-2021	
South facing view of delineation activity on PH04.		 A yellow CAT excavator is shown in a south-facing view, performing delineation activity on a dirt surface. The excavator's arm and bucket are visible, with the bucket resting on the ground. In the background, there are industrial structures, including a large storage tank and various pipes and valves, under a clear blue sky.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS



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

A handwritten signature in black ink, appearing to read "Jessica Kramer".

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

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

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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.

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

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

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Definitions/Glossary

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Job ID: 890-1267-1**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.

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH01

Lab Sample ID: 890-1267-1

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

Method: 8021B - Volatile Organic 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 06:00	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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/21/21 14:14	09/21/21 21:21	1
Total TPH	<49.8	U F1	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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		25.2	mg/Kg			09/21/21 02:03	5

Client Sample ID: PH01A

Lab Sample ID: 890-1267-2

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH01A

Lab Sample ID: 890-1267-2

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
Diesel Range Organics (Over C10-C28)	50.3		50.0	mg/Kg		09/21/21 14:14	09/21/21 22:22	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	584		5.04	mg/Kg			09/21/21 02:08	1

Client Sample ID: PH02

Lab Sample ID: 890-1267-3

Date Collected: 09/16/21 12:35

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

Method: 8021B - Volatile Organic 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 Range Organics (DRO) (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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		25.3	mg/Kg			09/21/21 02:25	5

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH02A

Lab Sample ID: 890-1267-4

Date Collected: 09/16/21 12:40

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

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	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/18/21 11:00	09/19/21 07:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/18/21 11:00	09/19/21 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/18/21 11:00	09/19/21 07:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	09/18/21 11:00	09/19/21 07:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	1
Total TPH	<49.9	U	49.9	mg/Kg		09/21/21 14:14	09/21/21 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	09/21/21 14:14	09/21/21 23:02	1
o-Terphenyl	114		70 - 130	09/21/21 14:14	09/21/21 23:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		5.01	mg/Kg			09/21/21 02:31	1

Client Sample ID: PH03

Lab Sample ID: 890-1267-5

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

Method: 8021B - Volatile Organic 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 07:22	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

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH03

Lab Sample ID: 890-1267-5

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	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
Oil 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 Chromatography - 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

Lab Sample ID: 890-1267-6

Date Collected: 09/16/21 13:50

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

Method: 8021B - Volatile Organic 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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		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
Oil 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	111		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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		24.9	mg/Kg			09/23/21 10:43	5

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH04

Lab Sample ID: 890-1267-7

Date Collected: 09/16/21 13:55

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

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 08:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	09/18/21 11:00	09/19/21 08:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/18/21 11:00	09/19/21 08:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	1
Diesel Range Organics (Over C10-C28)	76.1		49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	1
Total TPH	76.1		49.9	mg/Kg		09/20/21 16:44	09/21/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/20/21 16:44	09/21/21 14:54	1
o-Terphenyl	109		70 - 130	09/20/21 16:44	09/21/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613		24.8	mg/Kg			09/23/21 10:49	5

Client Sample ID: PH04A

Lab Sample ID: 890-1267-8

Date Collected: 09/16/21 14:03

Matrix: Solid

Date Received: 09/17/21 09:01

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	mg/Kg		09/18/21 11:00	09/19/21 08:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/18/21 11:00	09/19/21 08:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:23	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/18/21 11:00	09/19/21 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	09/18/21 11:00	09/19/21 08:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/18/21 11:00	09/19/21 08:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH04A

Lab Sample ID: 890-1267-8

Date Collected: 09/16/21 14:03

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/20/21 16:44	09/21/21 15:16	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		24.8	mg/Kg			09/23/21 10:55	5

Client Sample ID: PH05

Lab Sample ID: 890-1267-9

Date Collected: 09/16/21 12:50

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

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
1,4-Difluorobenzene (Surr)	100		70 - 130	09/18/21 11:00	09/19/21 08:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/20/21 16:44	09/21/21 15:37	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		25.2	mg/Kg			09/23/21 11:12	5

Eurofins Xenco, Carlsbad

Client Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH05A

Lab Sample ID: 890-1267-10

Date Collected: 09/16/21 12:55

Matrix: Solid

Date Received: 09/17/21 09:01

Sample Depth: 2

Method: 8021B - Volatile Organic 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 09:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 09:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 09:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/21 11:00	09/19/21 09:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/18/21 11:00	09/19/21 09:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	09/18/21 11:00	09/19/21 09:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/18/21 11:00	09/19/21 09:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	1
Total TPH	<50.0	U	50.0	mg/Kg		09/20/21 16:44	09/21/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	09/20/21 16:44	09/21/21 17:25	1
o-Terphenyl	134	S1+	70 - 130	09/20/21 16:44	09/21/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		4.99	mg/Kg			09/23/21 11:17	1

Eurofins Xenco, Carlsbad

Surrogate Summary

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1267-1	PH01	109	99
890-1267-1 MS	PH01	104	93
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
890-1267-5	PH03	127	98
890-1267-6	PH03A	123	99
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
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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
Surrogate Legend			

Eurofins Xenco, Carlsbad

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

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QC Sample Results

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

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 Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8063

Analyte	MB Result	MB Qualifier	RL	Unit	D	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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS 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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%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

Surrogate	LCSD %Recovery	LCSD 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 Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8064

Analyte	MB Result	MB 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

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID: MB 880-8064/5-A

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8064

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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 880-8064/1-A

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 8086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8064

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: 890-1267-1 MS

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID: 890-1267-1 MS

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-1267-1 MSD

Matrix: Solid

Analysis Batch: 8086

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07940		mg/Kg		80	70 - 130	2	35
Toluene	<0.00200	U	0.0994	0.1021		mg/Kg		103	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0994	0.1107		mg/Kg		111	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2027		mg/Kg		102	70 - 130	2	35
o-Xylene	<0.00200	U	0.0994	0.1021		mg/Kg		102	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-8157/1-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8157

Analyte	MB Result	MB 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
Oil 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

Surrogate	MB %Recovery	MB 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

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.4		mg/Kg		92	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID: LCS 880-8157/2-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	969.7		mg/Kg		97	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	96		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-8157/3-A

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	920.2		mg/Kg		92	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	993.1		mg/Kg		99	70 - 130	2	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	97		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-1288-A-1-F MS

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 8157

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	104		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-1288-A-1-H MSD

Matrix: Solid

Analysis Batch: 8185

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 8157

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	905.6		mg/Kg					
Diesel Range Organics (Over C10-C28)	3380		999	5165		mg/Kg					

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID: MB 880-8210/1-A

Matrix: Solid

Analysis Batch: 8175

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8210

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 20:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 20:21	1
Total TPH	<50.0	U	50.0	mg/Kg		09/21/21 14:14	09/21/21 20:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	09/21/21 14:14	09/21/21 20:21	1
o-Terphenyl	92		70 - 130	09/21/21 14:14	09/21/21 20:21	1

Lab Sample ID: LCS 880-8210/2-A

Matrix: Solid

Analysis Batch: 8175

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	855.3		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-8210/3-A

Matrix: Solid

Analysis Batch: 8175

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8210

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	816.1		mg/Kg		82	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	876.2		mg/Kg		88	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-1267-1 MS

Matrix: Solid

Analysis Batch: 8175

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	997	<49.9	U F1	mg/Kg		0.4	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	997	<49.9	U F1	mg/Kg		0.5	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID: 890-1267-1 MS

Matrix: Solid

Analysis Batch: 8175

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8210

	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

Analysis Batch: 8175

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 8210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	<50.0	U F1	mg/Kg		0.8	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	<50.0	U F1	mg/Kg		0.7	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8111/1-A

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/21/21 01:18	1

Lab Sample ID: LCS 880-8111/2-A

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-8111/3-A

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1266-A-1-C MS

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	991		1260	2245		mg/Kg		99	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

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

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

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	991		1260	2247		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1268-A-3-C MS

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	207		249	475.7		mg/Kg		108	90 - 110		

Lab Sample ID: 890-1268-A-3-D MSD

Matrix: Solid

Analysis Batch: 8150

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	207		249	475.7		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-8123/1-A

Matrix: Solid

Analysis Batch: 8272

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/23/21 10:04	1

Lab Sample ID: LCS 880-8123/2-A

Matrix: Solid

Analysis Batch: 8272

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	262.4		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-8123/3-A

Matrix: Solid

Analysis Batch: 8272

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1266-A-4-C MS

Matrix: Solid

Analysis Batch: 8272

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	353		250	614.5		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1266-A-4-D MSD

Matrix: Solid

Analysis Batch: 8272

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	353		250	617.2		mg/Kg		106	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

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	Prep Type	Matrix	Method	Prep Batch
890-1267-1	PH01	Total/NA	Solid	5035	
890-1267-2	PH01A	Total/NA	Solid	5035	
890-1267-3	PH02	Total/NA	Solid	5035	
890-1267-4	PH02A	Total/NA	Solid	5035	
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	
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 Batch
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	

Eurofins Xenco, Carlsbad

QC Association Summary

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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	Prep Type	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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QC Association Summary

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1267-6	PH03A	Soluble	Solid	DI Leach	
890-1267-7	PH04	Soluble	Solid	DI Leach	
890-1267-8	PH04A	Soluble	Solid	DI Leach	
890-1267-9	PH05	Soluble	Solid	DI Leach	
890-1267-10	PH05A	Soluble	Solid	DI Leach	
MB 880-8123/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8123/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
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	Prep Type	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	Prep Type	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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QC Association Summary

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

HPLC/IC (Continued)

Analysis Batch: 8272 (Continued)

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH01

Lab Sample ID: 890-1267-1

Date Collected: 09/16/21 12:20

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-1267-2

Date Collected: 09/16/21 12:25

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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

Lab Sample ID: 890-1267-3

Date Collected: 09/16/21 12:35

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-1267-4

Date Collected: 09/16/21 12:40

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID

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Lab Chronicle

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH03

Lab Sample ID: 890-1267-5

Date Collected: 09/16/21 13:45

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-1267-6

Date Collected: 09/16/21 13:50

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:43	CH	XEN MID

Client Sample ID: PH04

Lab Sample ID: 890-1267-7

Date Collected: 09/16/21 13:55

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:49	CH	XEN MID

Client Sample ID: PH04A

Lab Sample ID: 890-1267-8

Date Collected: 09/16/21 14:03

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 10:55	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

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

Job ID: 890-1267-1
SDG: 31403236.022.0129

Client Sample ID: PH05

Lab Sample ID: 890-1267-9

Date Collected: 09/16/21 12:50

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID
Soluble	Analysis	300.0		5	8272	09/23/21 11:12	CH	XEN MID

Client Sample ID: PH05A

Lab Sample ID: 890-1267-10

Date Collected: 09/16/21 12:55

Matrix: Solid

Date Received: 09/17/21 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	CH	XEN MID
Soluble	Analysis	300.0		1	8272	09/23/21 11:17	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

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

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.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1267-1	PH01	Solid	09/16/21 12:20	09/17/21 09:01	1
890-1267-2	PH01A	Solid	09/16/21 12:25	09/17/21 09:01	2
890-1267-3	PH02	Solid	09/16/21 12:35	09/17/21 09:01	1
890-1267-4	PH02A	Solid	09/16/21 12:40	09/17/21 09:01	2
890-1267-5	PH03	Solid	09/16/21 13:45	09/17/21 09:01	1
890-1267-6	PH03A	Solid	09/16/21 13:50	09/17/21 09:01	2
890-1267-7	PH04	Solid	09/16/21 13:55	09/17/21 09:01	1
890-1267-8	PH04A	Solid	09/16/21 14:03	09/17/21 09:01	2
890-1267-9	PH05	Solid	09/16/21 12:50	09/17/21 09:01	1
890-1267-10	PH05A	Solid	09/16/21 12:55	09/17/21 09:01	2



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Adrian Baker
Company Name:	WSP Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carsbad, NM, 88220
Phone:	(432) 236-3849	Email:	Elliott.Lee@wsp.com Kate.Jennings@wsp.com

Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> Rptund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____		Work Order Comments
---	--	----------------------------

Project Name:	Remuda 100	Turn Around	
Project Number:	31403236 022.0129	Routine	<input checked="" type="checkbox"/>
P.O. Number:		Rush:	
Sampler's Name:	Elliott Lee	Due Date:	

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	0.8 / 0.6	Thermometer ID		
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.7	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Total Containers:	N/A	



890-1267 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes	Sample Comments
PH01	S	9/16/2021	12:20	1'	1	X	X	X		Cost Center # 1067621001 Incident # NAPP2121445163	Discrete
PH01A	S	9/16/2021	12:25	2'	1	X	X	X			Discrete
PH02	S	9/16/2021	12:35	1'	1	X	X	X			Discrete
PH02A	S	9/16/2021	12:40	2'	1	X	X	X			Discrete
PH03	S	9/16/2021	13:45	1'	1	X	X	X			Discrete
PH03A	S	9/16/2021	13:50	2'	1	X	X	X			Discrete
PH04	S	9/16/2021	13:55	1'	1	X	X	X			Discrete
PH04A	S	9/16/2021	14:03	2'	1	X	X	X			Discrete
PH05	S	9/16/2021	12:50	1'	1	X	X	X			Discrete
PH05A	S	9/16/2021	12:55	2'	1	X	X	X			Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1634+245+17470+17471:Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	9/16/21 9:01			

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Eurofins Xenco, Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	CCC No.																																																																																																				
Client Contact	Phone	Kramer Jessica	State of Origin	890-411 1																																																																																																					
Shipping/Receiving	E-Mail	jessica.kramer@eurofins.com	New Mexico	Page 1 of 2																																																																																																					
Company	Accreditations Required (See note):	NE LAP - Louisiana NE LAP - Texas	Job #	890-1267-1																																																																																																					
Address	Due Date Requested	9/20/2021																																																																																																							
City	TAT Requested (days):																																																																																																								
Midland																																																																																																									
State, Zip	PO #																																																																																																								
TX, 79701	WC #																																																																																																								
Phone	Project #	89000004																																																																																																							
432-704-5440(Tel)	SSON#																																																																																																								
Email																																																																																																									
Project Name																																																																																																									
Remuda 100																																																																																																									
Site																																																																																																									
<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>Analysis Requested</th> <th>Total Number of containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>PH01 (890-1267-1)</td> <td>9/16/21</td> <td>12 20</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH01A (890-1267-2)</td> <td>9/16/21</td> <td>12 25</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH02 (890-1267-3)</td> <td>9/16/21</td> <td>12 35</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH02A (890-1267-4)</td> <td>9/16/21</td> <td>12 40</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH03 (890-1267-5)</td> <td>9/16/21</td> <td>13 45</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH03A (890-1267-6)</td> <td>9/16/21</td> <td>13 50</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH04 (890-1267-7)</td> <td>9/16/21</td> <td>13 55</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH04A (890-1267-8)</td> <td>9/16/21</td> <td>14 03</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>PH05 (890-1267-9)</td> <td>9/16/21</td> <td>12 50</td> <td>Mountain</td> <td>Solid</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </tbody> </table>						Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:	PH01 (890-1267-1)	9/16/21	12 20	Mountain	Solid	X	X	X	1		PH01A (890-1267-2)	9/16/21	12 25	Mountain	Solid	X	X	X	1		PH02 (890-1267-3)	9/16/21	12 35	Mountain	Solid	X	X	X	1		PH02A (890-1267-4)	9/16/21	12 40	Mountain	Solid	X	X	X	1		PH03 (890-1267-5)	9/16/21	13 45	Mountain	Solid	X	X	X	1		PH03A (890-1267-6)	9/16/21	13 50	Mountain	Solid	X	X	X	1		PH04 (890-1267-7)	9/16/21	13 55	Mountain	Solid	X	X	X	1		PH04A (890-1267-8)	9/16/21	14 03	Mountain	Solid	X	X	X	1		PH05 (890-1267-9)	9/16/21	12 50	Mountain	Solid	X	X	X	1	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:																																																																																																
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PH02A (890-1267-4)	9/16/21	12 40	Mountain	Solid	X	X	X	1																																																																																																	
PH03 (890-1267-5)	9/16/21	13 45	Mountain	Solid	X	X	X	1																																																																																																	
PH03A (890-1267-6)	9/16/21	13 50	Mountain	Solid	X	X	X	1																																																																																																	
PH04 (890-1267-7)	9/16/21	13 55	Mountain	Solid	X	X	X	1																																																																																																	
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<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other institutions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>																																																																																																									
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2</p>																																																																																																									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p>																																																																																																									
<p>Empty Kit Relinquished by</p> <p>Relinquished by Date/Time Company</p> <p>Relinquished by Date/Time Company</p> <p>Relinquished by Date/Time Company</p> <p>Custody Seals Intact: Custody Seal No</p> <p>Δ Yes Δ No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>																																																																																																									

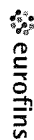
Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1267-1

SDG Number: 31403236.022.0129

Login Number: 1267

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1267-1

SDG Number: 31403236.022.0129

Login Number: 1267

List Number: 2

Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland

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

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

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

Action 57338

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 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