District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural **Resources Department**

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

| Incident ID | nAPP2104347351 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party XTO Energy | OGRID 5380 | |
|---|--------------------------------|--|
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 | |
| Contact email kyle.littrell@exxonmobil.com | Incident # (assigned by OCD) | |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | | |

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

-103.93682

32.27052 Latitude

| Site Name Remuda 500 | Site Type _{CTB} |
|-----------------------------------|--------------------------|
| Date Release Discovered 2/08/2021 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| 0 | 25 | 238 | 29E | Eddy |

Surface Owner: 🗷 State 🗌 Federal 🗌 Tribal 🗌 Private (*Name:* _

Nature and Volume of Release

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

| ▼ Crude Oil | Volume Released (bbls) 0.46 | Volume Recovered (bbls) 0.21 |
|------------------|---|---|
| ▼ Produced Water | Volume Released (bbls) 8.75 | Volume Recovered (bbls) 7.79 |
| | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| 🗌 Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| C CD 1 | | |

Cause of Release A circulation pump seal failed, causing fluids to overflow skid containment. A third-party contractor has been retained for remediation activities.

| orm C-141 State of New Mexico | | | Page 2 of |
|--|--|---------------------------------|----------------|
| orm C-141 | | Incident ID | nAPP2104347351 |
| age 2 | Oil Conservation Division | District RP | |
| | | Facility ID | |
| | | Application ID | |
| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible pa | | |
| If YES, was immediate n | otice given to the OCD? By whom? To whom? W | hen and by what means (phone, e | mail, etc)? |
| N/A | | | |

Initial Response

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

 \mathbf{x} The source of the release has been stopped.

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

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

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

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

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

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

| Printed Name: Kyle Littrell | Title: |
|--|--|
| Signature: <i>Confittutto</i> email: kyle.littrett@exxonmobil.com | Date: 2-12-21 Telephone: 432-221-7331 |
| OCD Only | |
| Received by: | Date: |

NA

| Location: | Remuda 500 CTB | |
|------------------------|---------------------------------|-----------|
| Spill Date: | 2/8/2021 | |
| | Area 1 | |
| Approximate A | rea = 1808.00 |) sq. ft. |
| Average Satura | tion (or depth) of spill = 1.50 |) inches |
| Average Porosi | ty Factor = 0.03 | 3 |
| | VOLUME OF LEAK | |
| Total Crude Oil | = 0.46 | bbls |
| Total Produced | Water = 8.75 | 5 bbls |
| TOTAL VOLUME OF LEAK | | |
| Total Crude Oi | = 0.40 | bbls |
| Total Produced | Water = 8.7 | bbls |
| TOTAL VOLUME RECOVERED | | |
| Total Crude Oi | = 0.2 | bbls |
| Total Produced | Water = 7.79 | bbls |

Received by OCD: 5/7/2021 2:13:46 PM Form C-141 State of New Mexico

Oil Conservation Division

| | Page 4 of 7 |
|----------------|--------------------|
| Incident ID | nAPP2104347351 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \square 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.

| Received by OCD: 5/7/2021 Form C-141 Page 4 | 2:13:46 PM State of New Mexic Oil Conservation Divis | | Incident ID District RP Facility ID Application ID | Page 5 of 77 nAPP2104347351 |
|--|--|---|--|--|
| regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. | mation given above is true and complete equired to report and/or file certain relea ent. The acceptance of a C-141 report b te and remediate contamination that pose a C-141 report does not relieve the oper- | se notifications and perfor y the OCD does not reliev e a threat to groundwater, s ator of responsibility for co | m corrective actions for re e the operator of liability s surface water, human healt | leases which may endanger hould their operations have h or the environment. In |
| Printed Name: | <u>_Kyle Littrell</u> | Title: <u>Environm</u> | ental Manager | |
| Signature: | <u>_Kyle Littrell</u> | Date:05/0 | 3/2021 | |
| email: Kyle.Littre | <u>l@exxonmobil.com</u> | Telephone | : (432)-221-7331 | |
| · | · | _ 1 | , , , | |
| OCD Only | | | | |
| Received by: | | Date: | | _ |

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Oil Conservation Division

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 must be notified 2 days prior to liner inspection) | 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 OD | C District office must be notified 2 days prior to final sampling) | | |
| Description of remediation activities | | | |
| | | | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of | ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in | | |
| Printed Name: Kyle Littrell | Title: Environmental Manager | | |
| Printed Name: <u>Kyle Littrell</u> Signature: <u>Kyle Littrell</u> | Date:05/03/2021 | | |
| email:Kyle.Littrell@exxonmobil.com | Telephone:432-221-7331 | | |
| | | | |
| 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: | | |
| | | | |

| Received by OCD: 5/7, Form C-141 Page 4 | 2021 2:13:46 PM State of New M Oil Conservation I | | Incident ID District RP Facility ID Application ID | Page 7 of 77 nAPP2104347351 | | | |
|---|---|--|---|--|--|--|--|
| regulations all operator public health or the env failed to adequately inv addition, OCD acceptar and/or regulations. | information given above is true and com s are required to report and/or file certain rironment. The acceptance of a C-141 represtigate and remediate contamination that are of a C-141 report does not relieve the | release notifications and perform bort by the OCD does not relieve t t pose a threat to groundwater, sur operator of responsibility for com | corrective actions for rele he operator of liability sh face water, human health pliance with any other fe | eases which may endanger ould their operations have or the environment. In | | | |
| Printed Name: | <u>Kyle Littrell</u> | Title: <u>Environmen</u> | onmental Manager | | | | |
| Signature: | _Kyle Littrell | Date:05/03/ | 2021 | | | | |
| | Littrell@exxonmobil.com | | <u>(432)-221-7331</u> | | | | |
| | | | | | | | |
| OCD Only | | | | | | | |
| Received by: | | Date: | | - | | | |
| | | | | | | | |

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Oil Conservation Division

| Incident ID | nAPP2104347351 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

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Closure

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

| <u>Closure Report Attachment Checklist</u>: Each of the following a | items must be included in the closure report. |
|---|---|
| \boxtimes A scaled site and sampling diagram as described in 19.15.29. | 11 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate OD | C District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C | ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. |
| Printed Name: Kyle Littrell | Title: Environmental Manager |
| Printed Name: Kyle Littrell Signature: Signature: | Date:05/03/2021 |
| email:Kyle.Littrell@exxonmobil.com | Telephone:432-221-7331 |
| | |
| OCD Only | 0/10/2021 |
| Received by: <u>Robert Hamlet</u> | Date: <u>8/18/2021</u> |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations. |
| Closure Approved by: | Date: 8/18/2021 |
| Printed Name: <u>Robert Hamlet</u> | Title: Environmental Specialist - Advanced |
| | |

WSP USA

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

May 3, 2021

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

RE: Closure Request Remuda 500 Incident Number nAPP2104347351 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 500 (Site) in Unit O, 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 the release of crude oil and produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number nAPP2104347351.

RELEASE BACKGROUND

On February 8, 2021, a circulation pump seal failed resulting in the release of approximately 0.46 barrels (bbls) of crude oil and 8.75 bbls of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 0.21 bbls of crude oil and 7.79 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 12, 2021 and was assigned Incident Number nAPP2104347351.

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-4494) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4494 was drilled to a depth of 105 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered



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during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 0.3 miles northwest of the Site and is depicted on Figure 1. 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 bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash located approximately 350 feet west 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 (low 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 AND SOIL SAMPLING ACTIVITIES

On March 23, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release occurred in an area of active process equipment with limited access. WSP personnel collected two preliminary assessment soil samples (SS01 and SS02) within the release extent from a depth of approximately 0.3 feet bgs to assess for the presence or absence of impacted soil. Preliminary sample SS02 was collected in the area nearest to the point of release. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.



District II Page 3

The preliminary 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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional site assessment activities were scheduled.

DELINEATION SOIL SAMPLING ACTIVITIES

On April 14, 2021, WSP personnel returned to the Site to oversee additional site assessment activities. Seven potholes (PH01 through PH07) were advanced using a track-mounted backhoe to a depth of 3 feet bgs to confirm the absence of impacted soil. Potholes PH01 and PH02 were advanced within the release extent at the SS01 and SS02 preliminary soil sample locations. Potholes PH03 through PH07 were advanced in accessible areas around the release extent and active process equipment. Delineation soil samples were collected from each pothole from depths of 1-foot and 3 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The location of potholes PH01 through PH07 are presented on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico. Photographic documentation of the Site visits is included in Attachment 3.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. To further evaluate for the presence or absence of impacted soil, additional site assessment activities were completed.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH07 indicated that 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 laboratory analytical reports are included as Attachment 4.

NSD

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CLOSURE REQUEST

Preliminary soil samples SS01 and SS02 and delineation soil samples from potholes PH01 through PH07 were collected within and around the release extent to assess for the presence or absence impacted soil resulting from the February 8, 2021 crude oil and produced water release. Laboratory analytical results for the preliminary and delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Initial response efforts, which included recovery of the majority of the release fluids via hydrovac, mitigated impacts at this Site. Based on initial response efforts, soil sample laboratory analytical results compliant with the Closure Criteria, and confirmed depth to groundwater greater than 100 feet bgs, no impacted soil was identified, and no excavation was required as a result of the crude oil and produced water release. XTO respectfully requests NFA for Incident Number nAPP2104347351.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka

Elizabeth Naka Assistant Consultant, Environmental Scientist

Ashley L. Ager

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

cc: Kyle Littrell, XTO Ryan Mann, New Mexico State Land Office

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Log
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

FIGUR

Released to Imaging: 8/18/2021 11:47:49 AM



Released to Imaging: 8/18/2021 11:47:49 AM





Released to Imaging: 8/18/2021 11:47:49 AM

Table 1

Soil Analytical Results Remuda 500 Incident Number nAPP2104347351 Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) | TPH-ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|----------------------------|---------------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Cl | osure Criteria (NMA | AC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Surface Samples | | | | | | | | | | |
| SS01 | 03/23/2021 | 0.3 | < 0.00200 | < 0.00200 | 184 | 375 | 82.4 | 559 | 641 | 7,280 |
| SS02 | 03/23/2021 | 0.3 | <0.00199 | 0.00487 | 94.7 | 282 | 100 | 376.7 | 477 | 4,720 |
| Delineation Samples | | | | | | | | | | |
| PH01 | 04/14/2021 | 1.0 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 166 |
| PH01A | 04/14/2021 | 3.0 | < 0.00198 | < 0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 197 |
| PH02 | 04/14/2021 | 1.0 | < 0.00200 | < 0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 1,080 |
| PH02A | 04/14/2021 | 3.0 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 903 |
| PH03 | 04/14/2021 | 1.0 | < 0.00199 | < 0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 115 |
| PH03A | 04/14/2021 | 3.0 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 165 |
| PH04 | 04/14/2021 | 1.0 | < 0.00200 | < 0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 41.4 |
| PH04A | 04/14/2021 | 3.0 | < 0.00202 | < 0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 65.5 |
| PH05 | 04/14/2021 | 1.0 | < 0.00202 | < 0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 195 |
| PH05A | 04/14/2021 | 3.0 | < 0.00201 | < 0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 70.4 |
| PH06 | 04/14/2021 | 1.0 | < 0.00201 | < 0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 287 |
| PH06A | 04/14/2021 | 3.0 | < 0.00200 | < 0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 389 |
| PH07 | 04/14/2021 | 1.0 | < 0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 725 |
| PH07A | 04/14/2021 | 3.0 | < 0.00199 | < 0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 101 |

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 - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit NE - Not Established

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

.

| | | _ | | | MS | DUSA | | | BH or PH Name: | Date: | |
|---------------------|-------------------|------------------|------------|--------------|-----------------------------|-------------------|---------------------|-----------------------|----------------------------------|--|------|
| | | | | | VV 5 | PUSA | | | BH01 (C-4494) | 11/18/2020, 12/02/20, 01/05/2021 | |
| | | | | 5 | 08 West | Stevens S | Street | | Site Name: | Remuda North 25 Observation We | ell |
| | | | | Car | Isbad, Ne | w Mexico | 88220 | | RP or Incident Numbe | | |
| | | | | | | | | | LTE Job Number: | TE012919039 | |
| | | LITH | OLOG | SIC / SOIL | SAMPL | ING LO | | Logged By BB, LAD, FS | Method: Hollow Stem Auger, sonic | : | |
| Lat/Lo | ng: | | | | Field Scre | ening: | | | Hole Diameter: | Total Depth: | |
| | - | | | | | | | | 6.25", 4.25" | 105' | |
| Comm | | - - | C . I .I . | | | | | | | | |
| Lithoic | gy remarks | s only. No | field so | creenings: D | y noie | | | 1 | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Litho | logy/Remarks | |
| D | | | Ν | | L | 1 | SP-SC | | | | |
| | | | | | _ | - | | | | | , |
| | | | | | - | 2 | | | | ly graded, fine grain, Clay (10% cla | ay), |
| | | | | | - | 3 | | some roo | ots, no stain, no odor | | |
| D | | | N | | - | 4 | COLIE | | | t brown, poorly graded, very fine - t bebbles, no stain, no odor | fine |
| | | | IN | | - | 5 | COULE | yraill, SO | me rounded caliche | טטטעפא, איז אנגעפאעפאעפאינאפא | |
| | | | | | - | 6 | | | | wn-tan, poorly consolidated, sub- gravel, very silty, gradational | |
| | | | | | - | 7 | | | | | |
| | | | | | - | 8 | | 9-14' : A | oundent sub-round ca | aliche gravel | |
| | | | | | | [| | 14-19' : \$ | Some sub-angular ca | liche gravel and pebbles | |
| | | | | | | 9 | | 19-24' : / | Abundant sub-angula | r caliche gravel and pebbles, | |
| | | | | | - | 10 | | | ely consolidated | 0 1 <i>i</i> | |
| | | | | | - | | | | | | |
| | | | | | - | 11 | | | | | |
| | | | | | _ | 12 | | | | | |
| | | | | | - | 13 | | | | | |
| | | | | | - | 14 | | | | | |
| | | | | | - | 15 | | | | | |
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| | | | | | - | 18 | | | | | |
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| | | | | | | 21 | | | | | |
| | | | | | - | 22 | | | | | |
| | | | | | - | 23 | | | | | |
| | | | | | - | 24 | | | | | |
| D | | | Ν | | - | 25 | CL | | | | |
| | | | | | | 20 | | | | | |

| | | | | | | | | | | | 1 |
|---------------------|-------------------|----------------|----------|--------------|-----------------------------|-------------------|---------------------|-----------------------|---|---|-----|
| | | | | | WS | P USA | | | BH or PH Name: | Date: | |
| | | | | | | | | | BH01 (C-4494) | 11/18/2020, 12/02/20, 01/05/2021 | |
| | | | | 5 | 508 West S Isbad, Ne | Stevens S | secon | | | Remuda North 25 Observation We | |
| | | | | Cai | ISDau, Ne | | 00220 | | RP or Incident Numbe | | |
| | | | | | | | | | LTE Job Number: | TE012919039 | |
| 1 | | LITH | ULOC | SIC / SOIL | | | | Logged By BB, LAD, FS | Method: Hollow Stem Auger, sonic | | |
| Lat/Lo | ng: | | | | Field Scre | ening: | | | Hole Diameter: 6.25", 4.25" | Total Depth: 105' | |
| Comm | ients: | | | | | | | | 0.20 , 4.20 | 100 | |
| Litholo | ogy remark | s only. No | field s | creenings: D | ry hole | | | - | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Litho | logy/Remarks | |
| D | | | Ν | | | 26 | CL | | | | |
| | | | | | - | 27 | | consolid | | dish-brown, low plasticity, well caliche sub-angular pebbles, no ta | in, |
| | | | | | - | 29 | | | Sub-angular calcium ((1-3mm), tan-light bro | carbonate gravel with dissolution | |
| | | | | | - | 30 | | At 39' : I | Begin air rotory (4.25") | 1 | |
| | | | | | - | 31 | | 39-42' : | DOLOMETIC LIMEST | ONE, tan-light brown, dry, well | |
| | | | | | | _ | | | ated, with dissolution ht to moderate reaction | features (1-3mm), sharp, no stain, n with HCl | no |
| | | | | | - | 32 | | - | | nite with trace dissolution features | |
| | | | | | _ | 33 | | (>1mm) | | | |
| | | | | | - | 34 | | | Stop due to air rotory r | | |
| | | | | | - | 35 | | DOLOM | ITE, white, well conso | h new air rotary bit (12/02/20), lidated, dark gray-black banding, r | 10 |
| | | | | | - | 36 | | stain, n | o odor | | |
| | | | | | - | 37 | | | | | |
| | | | | | - | 38 | | | | | |
| 5 | | | N | | - | 39 | | | | | |
| D | | | Ν | | - | 40 | DOL | | | | |
| | | | | | - | 41 | | | | | |
| | | | | | - | 42 | | | | | |
| | | | | | | 43 | | | | | |
| | | | | | | 44 | | | | | |
| | | | | | | 45 | | | | | |
| | | | | | - | 46 | | | | | |
| | | | | | - | 47 | | | | | |
| | | | | | - | 48 | | | | Refusal on 11/18/20 | |
| | | | | | - | 49 | | | | Restart borehole on 12/02/2 | 0 |
| | | | | | - | 50 | | | | | |
| | | | | | | 50 | | | | | |

| | | | | | | | | | DH or DH Nama | Deter |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|---|----------------------------------|--|
| | | | | | WS | P USA | | | BH or PH Name: | Date: |
| | | | | | | | | | BH01 (C-4494) | 11/18/2020. 12/02/2020, 1/5/2021 |
| | | | | 5 | 508 West S Isbad, Ne | Stevens S | Street | | | nuda North 25 Observation Well |
| | | | | Cai | ISDau, Ne | | 00220 | | RP or Incident Number: | 40000 |
| | | | | | CAMPI | | 0 | | LTE Job Number: TE0129 | |
| Lot/L | | LIIR | JLUG | IC / SOII | Field Scre | | | Logged By BB, LAD, FS Hole Diameter: | Method: Hollow Stem Auger, sonic | |
| Lat/Lo | ong: | | | | Field Scre | ening. | | | 6.25", 4.25" | Total Depth: 105' |
| | nents: | | | | | | | | , - | 103 |
| Lithol | ogic log on | ly, no field | d screer | nings | | | - | T | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Lithole | ogy/Remarks |
| | | | | | | 51 | DOL | 18-56' · | Advanced borebole w | ith new air rotary bit (12/02/20), |
| | | | | | - | 52 | | | | lidated, dark gray- banding, no sta |
| | | | | | | 53 | | | | |
| | | | | | - | 54 | | | | |
| | | | | | - | 55 | | | | |
| | | | | | _ | 56 | | | | 1/5/2021 with sonic rig |
| | | | | | | 57 | | calcium | crystalline veins (<1m | gray-gray, well consolidated, some m), some dissolution features |
| | | | | | - | 58 | | | ssolution features, no | ine, trace orange oxidation stainin stain, no odor |
| | | | | | | 59 60 | | 62' : Bro stringer | | e crystalline dolomitic limestone |
| | | | | | | 61 | | 63-65' : . | | alline veins (<1mm), pale green- |
| | | | | | - | 62 | | | - | eddish brown, poorly consolidated |
| | | | | | - | 63 | | high plas | | dant coarse crystalline gypsum, fe |
| | | | | | | 64 | | 69-81' : | GYPSUM with Anhydr | ite, dry, greenish gray, some pale crystalline, 20% anhydrite, no stair |
| D | | | N | | - | 65 | CH-S | no odor | | orystannis, 2076 annyunite, no Stall |
| | | | | | | 66 | 0.10 | | | |
| | | | | | - | 67 | | | | |
| | | | | | - | 68 | | | | |
| D | | | Ν | | | 69 70 | GYP | 1 | | |
| | | | | | - | 70 | | | | |
| | | | | | - | 72 | | | | |
| | | | | | | 73 | | | | |
| | | | | | | 74 | | | | |
| | | | | | - | 75 | | | | |

| BH or PH Name: | Date: |
|--|---|
| WSP USA BH01 (C-4494) | 11/18/2020. 12/02/2020, 1/5/2021 |
| | Iorth 25 Observation Well |
| Carlsbad, New Mexico 88220 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 (ppm) (| Remarks |
| 76 GYP 69-81' : GYPSUM with Anhydrite, d yellow, well consolidated, finr crysta 77 no odor 78 81-98' : MUDSTONE, moist, dark r 79 consolidated, high plasticity, cohes | alline, 20% anhydrite, no stain, eddish brown, moderately ive, trace coarse crystalline |
| 80 85-86.5' : greenish-gray well conso 81 81 | lidated coarse crystalline |
| D N 81 CH-S 90-98': Some fine grain brown same fine grain brown | nger (4cm) /, some brown, dry, well e, no stain, no odor ist, brown, some gray-dark |
| | |

| | | | | | | | | | BH or PH Name: | | Date: |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|----------------------|----------------------|----------------------------------|--|
| | | | | | WSI | P USA | | | BH01 (C-4494) | | 11/18/2020. 12/02/2020, 1/5/2021 |
| | | | | 5 | 508 West S | Stevens S | Street | | | Remuda N | North 25 Observation Well |
| | | | | Car | 508 West S Isbad, Nev | v Mexico | 88220 | | RP or Incident Numbe | | |
| | | | | | | | | LTE Job Number: TE0 |)12919039 | | |
| | | LITHO | OLOG | IC / SOII | SAMPL | ING LO | | Logged By BB, LAD, F | S | Method: Hollow Stem Auger, sonic | |
| Lat/Lo | ong: | | | | Field Scree | ening: | | | Hole Diameter: | | Total Depth: |
| Comr | nents: | | | | | | | | 6.25", 4.25" | | 105' |
| Lithol | ogic log onl | y, no field | d screer | nings | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Lit | :hology/F | Remarks |
| | - | | | 0) | | 404 | Э́ | 00 5 400 | | | int hanne on a more deale |
| | | | | | | 101 102 | ML-S | | | | bist, brown, some gray-dark y fine grain sand, no stain, no |
| | | | | | | 103 | | At 102' : | | nated bl | ack/gray well consolidated |
| | | | | | | 104 | | snale sti | inger (4cm thick) | | |
| D | | | N | | | 105 | | TD @ 10 | 05' bgs (1/5/2021) | | |
| | | | | | | 106 | | | | | |
| | | | | | | 107 | | | | | |
| | | | | | | 108 | | | | | |
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| | 119 | | | 5 Cari GIC / SOIL | 08 West S Isbad, Ne | | | - | BH or PH Name: PH01 Site Name: RP or Incident Number: WSP Job Number: Logged By J. Hill | Date: 4/14/2021 Remuda 500 NAPP2104347351 TE012921030 Method: Mini Backhoe |
|---------------------|-------------------|-------------------|----------|-------------------------|-----------------------------|-------------------|---------------------|--|--|---|
| Lat/Lo | ona: | LIIII | OLOC | | Field Scre | | 0 | | Hole Diameter: | Total Depth: |
| | | | | | Hatch Chl | | s, PID | | 10" | 3' |
| Comm | nents: TD @ 3' | | | | | | | | | |
| Moisture Content | | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Litholo | gy/Remarks |
| M | 240 304 184 | 2.0 0.0 0.0 | Y Z Z | PH01 PH01A | 3.0 | | SWSC SC | Odor, No Clayey, fi No Odor, Fine-mec | I well graded sand with Plasticity. Organic Tr ne sand w/ gravel. Low Plasticity. No or I well graded sand with No Plasticity. Organi | ganic Traces. Red/Brown |

| | | | | | | | | BH or PH Nar | ne: | Date: | |
|---------------------|-------------------|----------------|----------|------------|-----------------------------|-------------------|---------------------|---|--------------------------------------|-----------------------------------|--------------|
| | | | | | WS | P USA | | PH02 | | 4/14/2021 | |
| | | | | 5 | 08 West S sbad, Ne | Stevens S | Street | Site Name: | | Remuda 500 | |
| | | | | Carl | sbad, Ne | w Mexico | 88220 | RP or Incident | | NAPP2104347351 | |
| | | | | | | | | WSP Job Nur | | TE012921030 | |
| | | LITH | OLOG | SIC / SOIL | | | G | Logged By J. | | Method: | Mini Backhoe |
| Lat/Lo | ong: | | | | Field Scre Hatch Chl | - | | Hole Diameter 10" | r: | Total Depth: 3' | |
| Comm | | | | | | | , 1 ID | | | 0 | |
| | TD @ 3' | | | | | 1 | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | | Lithology/F | Remarks | |
| | | | | | - | 0 | | | | | |
| Μ | 928 | 0.5 | Ν | PH02 | 1.0 | 1 | SWSC | ine-med well grade lo Odor, No Plastic | | | n |
| Μ | 804 | 1.5 | Ν | | - | 2 | SWSC | ine-med well grade lo Odor, No Plastic | ed sand with cla ity. Organic Tra | ay and gravel. aces. Ligh Brow | n/ Pink |
| М | 588 | 4.2 | Ζ | PH02A | 3.0 | | SWSC | ine-med well grade lo Odor, No Plastic | ed sand with cla | ay and gravel. | |

| | | | ` | | WS | P USA | | BH or PH Name: Date: PH03 4/14/2021 |
|---------------------|-------------------|----------------|----------|------------|-----------------------------|-------------------|---------------------|--|
| | | | | 5 | 08 West S sbad, Ne | Stevens S | Street | Site Name: Remuda 500 |
| | | | | Cari | sbad, ive | |) 88220 | RP or Incident Number: NAPP2104347351 |
| | | | | GIC / SOIL | SAMDI | | | WSP Job Number: TE012921030 Logged By J. Hill Method: Backhoe |
| Lat/Lo | na. | LIIN | OLUG | | Field Scre | | G | Logged By J. Hill Method: Backhoe Hole Diameter: Total Depth: |
| | | | | | Hatch Chl | - | s, PID | 20" 3' |
| Comm | ents: TD @ 3' | | | | | | | Γ |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
| | | | | | | 0 | | |
| D | 212 | 0.0 | Ν | | - | 0.5 | SWSM | Fine-med well graded sand with silt and gravel No Odor, No Plasticity. Organic Traces. Tan/Pink |
| D | 156 | 0.0 | Ν | PH03 | 1.0 | 1 | SWSC | Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Red/Light Brown |
| | | | | | - | - | | |
| D | 156 | 0.0 | Ν | | - | 2 | SWSC | Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Red/Brown |
| | | | | | - | - | | |
| D | 164 | 0.0 | Ν | PH03A | 3.0 | 3 | GWGC | Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown |
| | | | | | - | - | | |
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|--|-------------------|----------------|----------|----------------|-----------------------------|-----------|---------------------|------------|-----------------------|---|------------|
| | | | | | WS | P USA | | | | | |
| | | | | | | | | | H04 | 4/14/2021 | |
| | | | | 5 | 08 West S Isbad, Ne | Stevens S | Street | | te Name: | Remuda 500 | |
| | | | | Can | isbau, ive | | 00220 | | P or Incident Number: | NAPP21043473 | |
| | | | | | | | | | SP Job Number: | TE01292103 | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | | ogged By J. Hill | Method: | Backhoe |
| Lat/Long: Field Screening: Hatch Chloride Strips, PID | | | | | | | | H 20 | ole Diameter: | Total Depth: 3' | |
| Comm | ents: | | | | riatori oni | | 5, T ID | | · | 0 | |
| | TD @ 3' | | 1 | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | (ft bgs) | USCS/Rock Symbol | | Lith | ology/Remarks | |
| | | | | | 1 | 0 | | | | | |
| D | BDL | 0.0 | Ν | | - | 0.5 | SWSC | | | with clay and gravel. | |
| | | | | D U 0 4 | 4.0 | - 4 | 0.440.0 | No Odor, N | No Plasticity. Orga | anic Traces. Brown/T | an |
| D | BDL | 0.0 | Ν | PH04 | 1.0 | 1 | SWSC | | | with clay and gravel. anic Traces. Brown/T | an |
| | | | | | - | - | | | to i laotiony. Orga | and Habbo Drown/T | WIT |
| | | | | | - | - | | | | | |
| М | BDL | 0.0 | Ν | | _ | 2 | SC | Clayey sar | nd with Gravel | | |
| | | | | | - | - | | No Odor, L | Low Plasticity. Org | ganic Traces. Red/Br | own |
| | | | | | _ | _ | | | | | |
| D | BDL | 0.0 | Ν | PH04A | 3.0 | 3 | GWGC | Well Grad | ed gravel with Cla | y and Sand | |
| | | | | | | _ | | No Odor, N | No Plasticity. Orga | anic Traces. Red/ Bro | own |
| | | | | | _ | - | | | | | |
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| WSP USAPH054/14/2021508 West Stevens Street Carlsbad, New Mexico 88220Site Name: RP or Incident Number:Remuda 500 NAPP2104347351 WSP Job Number:WSP Job Number:TE012921030 | | | | | | | | | |
|---|---------------------|-------------------|----------------|----------|------------|------------|-----------|---------------------|--|
| Sold West Stevens, Street Carlsbad, New Mexico 88220 Site Name: Remuda 500 RP or Incident Number: NAPP2104347351 WSP Job Number: TE012921030 Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20" Total Depth: 3' Comments: TD @ 3' entry of diagonal 0 Site Name: Total Depth: 20" 0 0 Site Name: Lithology/Remarks 0 0 Site Name: Lithology/Remarks 0 0 Site Name: Comments: 20" 0 0 Site Name: Comments: 20" Comments: 20" 0 0 Sample Depth Depth Comments: 20" Comments: 20" 0 0 Sample Sa | | | | | | WS | PUSA | | BH or PH Name: Date: |
| WSP Job Number: TE012921030 LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20° Total Depth: 3° Comments: TO @ 3° O @ 10 P Sample B Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | | | | | |
| WSP Job Number: TE012921030 LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20° Total Depth: 3° Comments: TO @ 3° O Sample Depth (ft bgs) Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | 5 | 08 West S | Stevens S | Street | |
| LITHOLOGIC / SOIL SAMPLING LOG Logged By J. Hill Method: Backho Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20" Total Depth: 3" Comments: TD @ 3" Total Depth: 3" annie of depth (ft bgs) annie of depth (ft bgs) both depth (ft bgs) bot | | | | | Can | isuau, ive | wiviexicc | 00220 | |
| Lat/Long: Field Screening: Hatch Chloride Strips, PID Hole Diameter: 20* Total Depth: 3* Comments: TD @ 3* TD @ 3* Sample Depth (ft bgs) Depth (ft bgs) Depth (ft bgs) Depth Depth (ft bgs) Depth Depth (ft bgs) Lithology/Remarks D 112 0.1 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | | | | | |
| Hatch Chloride Strips, PID 20" 3" Comments: TD @ 3' TD @ 3' Image: Degree of the strips of the s | | | LITH | OLOG | SIC / SOIL | | | | |
| Comments: TD @ 3' TD @ 3' an tit spore To (fig) To (fig) <thto (fig)<="" tht=""> <thto (fig)<="" th=""> To (fig)</thto></thto> | | | | | | | | | |
| TD @ 3' an traperov b (fight of c) b (figh of c) b (fight of c) | Comn | nents: | | | | Hatch Chi | | 13, FID | 5 |
| D 112 0.1 N D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | | | | | |
| D 112 0.1 N D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth | (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
| D 224 0.0 N PH05 1.0 1 SWSC No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | l | | | | 1 | 0 | | |
| D 224 0.0 N PH05 1.0 1 SWSC Fine-med well graded sand with clay and gravel. No Odor, No Plasticity. Organic Traces. Brown/Tan M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | D | 112 | 0.1 | Ν | | - | 0.5 | SWSC | |
| M 136 0.0 N 2 SC No Odor, No Plasticity. Organic Traces. Brown/Tan D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | _ | | | | | | . | | No Odor, No Plasticity. Organic Traces. Brown/Tan |
| M 136 0.0 N 2 SC Clayey sand with Gravel No Odor, Low Plasticity. Organic Traces. Red/Brown D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | D | 224 | 0.0 | Ν | PH05 | 1.0 | _ 1 | SWSC | |
| D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | | - | ŀ | | |
| D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | | | | | | - | ŀ | | |
| D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand | Μ | 136 | 0.0 | Ν | | _ | 2 | SC | Clayey sand with Gravel |
| D 112 0.0 N PH05A 3.0 3.0 GWGC Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown | | | | | | - | ŀ | | No Odor, Low Plasticity. Organic Traces. Red/Brown |
| D 112 0.0 N PH05A 3.0 3 GWGC Well Graded gravel with Clay and Sand No Odor, No Plasticity. Organic Traces. Red/ Brown | | | | | | - | - | | |
| No Odor, No Plasticity. Organic Traces. Red/ Brown | D | 112 | 0.0 | Ν | PH05A | 3.0 | 3 | GWGC | Well Graded gravel with Clay and Sand |
| | | | 0.0 | | 11100/1 | 0.0 | | 000 | No Odor, No Plasticity. Organic Traces. Red/ Brown |
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| | | | | | WS | P USA | | PH06 | 4/14/202 | 21 |
| | | | | 5 | 08 West S | Stevens S | Street | Site Name: | Remuc | da 500 |
| | | | | Carl | sbad, Ne | w Mexico | 88220 | RP or Incident N | | 04347351 |
| | | | | | | | | WSP Job Numbe | r: TE012 | 921030 |
| | | LITH | OLOG | SIC / SOIL | | | G | Logged By J. Hill Hole Diameter: | Method: | |
| Lat/Lo | Lat/Long: Field Screening: Hatch Chloride Strips, PID | | | | | | | | Total De 3' | pth: |
| Comm | ents: | | | | natch Chi | onde Strip | is, Pid | 20" | 5 | |
| | TD @ 3' | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | (ft bgs) | | | Lithology/Remarks | 3 |
| | | | | | | 0 | | | | |
| D | 504 | 0.0 | Ν | | - | 0.5 | SWSM | ne-med well graded | sand with silt and ora | avel. |
| | | | | | | _ | | o Odor, No Plasticity | Organic Traces. Ta | an/pink |
| D | 296 | 0.0 | Ν | PH06 | 1.0 | 1 | SWSM | ne-med well graded | | |
| | | | | | - | - | | o Odor, No Plasticity | Organic Traces. La | ап/ріпк |
| | | | | | | - | | | | |
| D | 266 | 0.0 | Ν | | | 2 | SWSC | ne-med well graded | sand with clay and g | ravel. |
| | | | | | - | Ļ | | o Odor, No Plasticity | Organic Traces. Br | OWN/PINK |
| | | | | | _ | | | | | |
| D | 372 | 0.0 | Ν | PH06A | 3.0 | 3 | SC | layey sand with grave | | |
| | | | | | - | - | | o Odor, Low Plasticit | . Organic Traces. F | Red |
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|---------------------|-------------------|----------------|----------|-------------------------|-----------------------------|-----------------|---------------------|----------|--------------------------|----------------------------------|
| | | | | | WS | P USA | | | BH or PH Name: | Date: |
| | | | | | | | | | PH07 | 4/14/2021 |
| | | | | 5 Carl | 08 West S Isbad, Ne | Stevens Stevens | Street | | Site Name: | Remuda 500 |
| | | | | Can | isbau, Ne | | 00220 | | RP or Incident Number: | NAPP2104347351 |
| | | | | | 0.11101 | | - | | WSP Job Number: | TE012921030 |
| 1 (1 | | LITH | OLOG | SIC / SOIL | | | G | | Logged By J. Hill | Method: Backhoe |
| Lat/Lo | ng: | | | | Field Scre Hatch Chl | | | | Hole Diameter: 20" | Total Depth: 3' |
| Comm | nents: | | | | riatori oni | onde onip | , , T ID | | | 0 |
| | TD @ 3' | | | - | | | | - | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | (ft bgs) | USCS/Rock Symbol | | Litholo | gy/Remarks |
| | | | | | 1 | 0 | | | | |
| D | 1,652 | 0.0 | Ν | | - | 0.5 | SWSM | Fine-me | d well graded sand with | h silt and gravel. |
| | 1,002 | 5.0 | 1.4 | | | 0.0 | 0,100,0101 | No Odo | , No Plasticity. Organi | c Traces. Tan/pink |
| D | 660 | 0.0 | Ν | PH07 | 1.0 | 1 | SWSM | Fine-me | d well graded sand with | h silt and gravel. |
| | | | | | - | ŀ | | No Odo | , No Plasticity. Organic | c Traces. Tan/pink |
| | | | | | - | F | | | | |
| D | 772 | 0.0 | Ν | | - | 2 | SWSM | Fine-me | d well graded sand with | h silt and gravel. |
| | | | | | - | | | No Odo | , No Plasticity. Organi | c Traces. Light Brown/Orange |
| | | | | | _ | L | | | · • | |
| | | | | D 110 - 1 | | - | | F | | |
| D | 164 | 0.0 | Ν | PH07A | 3.0 | 3 | SP | Fine, po | orly graded sand with g | pravel nic Traces. Orange/Tan |
| | | | | | - | - | | | , LOW Flasticity. Organ | lic fraces. Orange/ran |
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Released to Imaging: 8/18/2021 11:47:49 AM



| | PHOTOGRAPHIC LOG | |
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| XTO Energy, Inc. | Remuda 500 | nAPP2104347351 |
| | Eddy County, New Mexico | |

| Photo No. | Date | |
|---------------|----------------|--|
| 1 | March 23, 2021 | |
| View of rel | ease between | |
| tank batterie | es and process | |
| equipment | facing west. | |
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| XTO Energy, Inc. | Remuda 500 | nAPP2104347351 |
| | Eddy County, New Mexico | |






Environment Testing America

ANALYTICAL REPORT

Job Number: 890-410-1 SDG Number: TE012921030 Job Description: Remuda 500

For: WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, TX 75207 Attention: Dan Moir

AMER

Approved for release Jessica Kramer Project Manager 4/5/2021 8:30 AM

Jessica Kramer, Project Manager 1211 W. Florida Ave, Midland, TX, 79701 jessica.kramer@eurofinset.com 04/05/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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.

Eurofins Xenco, Carlsbad 1089 N Canal St., Carlsbad, NM 88220 Tel (575) 988-3199 Fax (575) 988-3199 <u>www.EurofinsUS.com</u>



Client Sample Result Summary

Client: WSP USA Inc. Project/Site: Remuda 500

| Lab Sample ID: | 890-410-1 | 890-410-2 |
|-------------------|------------------|------------------|
| Client Sample ID: | SS01 | SS02 |
| Depth: | 0.3 | 0.3 |
| Matrix: | Solid | Solid |
| Date Collected: | 03/23/2021 10:44 | 03/23/2021 10:52 |

Method: 8021B - Volatile Organic Compounds (GC)

| | Prepared: Analvzed: | 04/02/2021 09:30 04/02/2021 18:31 | | 04/02/2021 09:30 04/02/2021 18:51 | |
|---------------------|------------------------|--------------------------------------|---------|--------------------------------------|---------|
| Analyte | Unit/RL: | mg/Kg | RL | mg/Kg | RL |
| Benzene | | <0.00200 U | 0.00200 | <0.00199 U | 0.00199 |
| Ethylbenzene | | <0.00200 U | 0.00200 | <0.00199 U | 0.00199 |
| Toluene | | <0.00200 U | 0.00200 | 0.00487 | 0.00199 |
| Total BTEX | | <0.00200 U | 0.00200 | 0.00487 | 0.00199 |
| Xylenes, Total | | <0.00400 U | 0.00400 | <0.00398 U | 0.00398 |
| m-Xylene & p-Xylene | | <0.00400 U | 0.00400 | <0.00398 U | 0.00398 |
| o-Xylene | | <0.00200 U | 0.00200 | <0.00199 U | 0.00199 |

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

| | Prepared: | 04/01/2021 14 | 4:29 | 04/01/2021 14 | 4:29 |
|--|-----------|---------------|------|---------------|------|
| | Analyzed: | 04/02/2021 23 | 3:40 | 04/03/2021 00 | 0:01 |
| Analyte | Unit/RL: | mg/Kg | RL | mg/Kg | RL |
| Gasoline Range Organio (GRO)-C6-C10 | cs | 184 | 49.8 | 94.7 | 50.0 |
| Diesel Range Organics C10-C28) | 375 | 49.8 | 282 | 50.0 | |
| Oll Range Organics (Ov C28-C36) | er | 82.4 | 49.8 | 100 | 50.0 |
| Total TPH | | 641 | 49.8 | 477 | 50.0 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| | Prepared: | | | | |
|----------|-----------|------------------|------|------------------|------|
| | Analyzed: | 04/01/2021 01:42 | | 04/01/2021 01:48 | |
| Analyte | Unit/RL: | mg/Kg | RL | mg/Kg | RL |
| Chloride | | 7280 | 50.1 | 4720 | 25.3 |

Job ID: 890-410-1 SDG: TE012921030

.

Received by OCD: 5/7/2021 2:13:46 PM

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🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-529-1

Laboratory Sample Delivery Group: TE012921030 Client Project/Site: Remuda 500

For:

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

Attn: Dan Moir

RAMER

Authorized for release by: 4/22/2021 4:15:33 PM

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

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

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

Total Access Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Released to Imaging: 8/18/2021 11:47:49 AM

Laboratory Job ID: 890-529-1 SDG: TE012921030

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| | Definitions/Glossary | | |
|------------------------------------|---|---------------------------------------|----------|
| Client: WSP US Project/Site: Re | | Job ID: 890-529-1 SDG: TE012921030 | 2 |
| Qualifiers | | | 3 |
| GC VOA | | | ು |
| Qualifier | Qualifier Description | | |
| U | Indicates the analyte was analyzed for but not detected. | | |
| GC Semi VOA | | | 5 |
| Qualifier | Qualifier Description | | |
| 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. | | 8 |
| Glossary | | | |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | | 9 |
| <u></u> | 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 | | 12 |
| 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 MCL | Limit of Quantitation (DoD/DOE) 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 | | |

TNTC Too Numerous To Count

Job ID: 890-529-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-529-1

Comments

No additional comments.

Receipt

The samples were received on 4/15/2021 12:22 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-529-1), PH01A (890-529-2), PH02 (890-529-3), PH02A (890-529-4), PH03 (890-529-5), PH03A (890-529-6), PH04 (890-529-7), PH04A (890-529-8), PH05 (890-529-9), PH05A (890-529-10), PH06 (890-529-11), PH06A (890-529-12), PH07 (890-529-13) and PH07A (890-529-14).

GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: PH03 (890-529-5), PH03A (890-529-6) and PH04 (890-529-7). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH07A (890-529-14). 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 8015B NM: The continuing calibration verification (CCV) associated with batch 880-1967 recovered above the upper control limit for Diesel Range Organics (Over C10-C28)>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

General Chemistry

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

Organic Prep

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

VOA Prep

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

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Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH01

Project/Site: Remuda 500

Date Collected: 04/14/21 10:06 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

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Client: WSP USA Inc.

| Lab Sample ID | : 890-529-1 |
|---------------|---------------|
| | Matrix: Calid |

Matrix: Solid

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| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---------------|-----------|----------|-------|---|----------------|----------------|----------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | 04/16/21 12:15 | 04/16/21 23:02 | |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 04/16/21 12:15 | 04/16/21 23:02 | |
| Method: 8015B NM - Diesel Rang | e Organics (D | RO) (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 13:59 | |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 13:59 | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 13:59 | |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 13:59 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 13:59 | |
| p-Terphenyl | 125 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 13:59 | |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 166 | | 5.00 | mg/Kg | | | 04/19/21 20:04 | 1 |
| lient Sample ID: PH01A | | | | | | Lab Sa | mple ID: 890 | -529-2 |
| ate Collected: 04/14/21 10:40 | | | | | | | Matri | x: Solid |
| ate Received: 04/15/21 12:22 | | | | | | | | |
| ample Depth: - 3.0 | | | | | | | | |
| Method: 8021B - Volatile Organic | Compounds | (GC) | | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:23 | |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 04/16/21 12:15 | 04/16/21 23:23 | |
| | | | | | | | | |

| Toluene | <0.00198 | U | 0.00198 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
|-----------------------------|-----------|-----------|----------|-------|----------------|----------------|---------|
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| Total BTEX | <0.00396 | U | 0.00396 | mg/Kg | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | 04/16/21 12:15 | 04/16/21 23:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | 04/16/21 12:15 | 04/16/21 23:23 | 1 |

Released to Imaging: 8/18/2021 11:47:49 AM

Matrix: Solid

5

Lab Sample ID: 890-529-2

Lab Sample ID: 890-529-3

04/16/21 12:15 04/17/21 01:12

Matrix: Solid

1

Client Sample ID: PH01A

Date Collected: 04/14/21 10:40 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 119 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |
| o-Terphenyl | 123 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 15:06 | 1 |

| alyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------|------------------|------|-------|---|----------|----------------|---------|
| loride | 197 | 4.99 | mg/Kg | | | 04/20/21 15:12 | 1 |

Client Sample ID: PH02

Date Collected: 04/14/21 10:59 Date Received: 04/15/21 12:22 Sample Depth: - 1.0

1,4-Difluorobenzene (Surr)

| Method: 8021B - Volatile Orga | nic Compounds (| (GC) | | | | | | |
|-------------------------------|-----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 01:12 | 1 |

70 - 130

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 20:14 | 1 |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1080 | | 4.95 | mg/Kg | | | 04/20/21 15:27 | 1 |

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RL

Unit

D

Prepared

Result Qualifier

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Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH02A

Date Collected: 04/14/21 11:13

Sample Depth: - 3.0

Analyte

o-Xylene

Client: WSP USA Inc.

Project/Site: Remuda 500

| Lab | Sample | ID: | 890-529- |
|-----|--------|-----|----------|

Analyzed

Matrix: Solid

-4 5 Dil Fac

Date Received: 04/15/21 12:22

Method: 8021B - Volatile Organic Compounds (GC)

| | Result | | | Unit | | | | |
|--|--|---|----------|---------------|----------|--------------------------------------|---|---|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 01:33 | 1 |
| Method: 8015B NM - Diesel Range | e Organics (D | RO) (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 20:35 | 1 |
| | | Solublo | | | | | | |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | |
| Method: 300.0 - Anions, Ion Chron Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | Unit mg/Kg | <u> </u> | Prepared | Analyzed 04/20/21 15:32 | Dil Fac |
| Analyte Chloride | Result | | | | <u>D</u> | · · · | | 5 |
| Analyte Chloride Client Sample ID: PH03 | Result | | | | <u> </u> | · · · | 04/20/21 15:32 | 5 |
| Analyte Chloride Client Sample ID: PH03 Pate Collected: 04/14/21 12:50 | Result | | | | <u>D</u> | · · · | 04/20/21 15:32 | 5 - 529-5 |
| Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 | Result | | | | <u> </u> | · · · | 04/20/21 15:32 | 5- 529-5 |
| Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Sample Depth: - 1.0 | Result 903 | Qualifier | | | <u>D</u> | · · · | 04/20/21 15:32 | 5- 529-5 |
| Analyte Chloride Client Sample ID: PH03 ate Collected: 04/14/21 12:50 ate Received: 04/15/21 12:22 ample Depth: - 1.0 Method: 8021B - Volatile Organic | Result 903 | Qualifier | | | <u>D</u> | · · · | 04/20/21 15:32 | 5 5- 529-5 x: Solid |
| Analyte Chloride Client Sample ID: PH03 vate Collected: 04/14/21 12:50 vate Received: 04/15/21 12:22 sample Depth: - 1.0 | Result 903 | Qualifier GC) Qualifier | 24.8 | mg/Kg | | Lab Sa | 04/20/21 15:32 | 5 - 529-5 x: Solid Dil Fac |
| Analyte Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Gample Depth: - 1.0 Method: 8021B - Volatile Organic Analyte | Result 903 Compounds (Result | Qualifier GC) Qualifier U | 24.8 | mg/Kg | | Lab Sa | 04/20/21 15:32 | ⁵ - 529-5 |
| Chloride Client Sample ID: PH03 Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22 Sample Depth: - 1.0 Method: 8021B - Volatile Organic Analyte Benzene | Compounds (Result <0.00199 | Qualifier GC) Qualifier U U | 24.8 | Unit mg/Kg | | Lab Sa Prepared 04/16/21 12:15 | 04/20/21 15:32 mple ID: 890 Matri: <u>Analyzed</u> 04/17/21 01:53 | 5 -529-5 x: Solid <u>Dil Fac</u> 1 |

| - | | | | | | | |
|---------------------------------------|-------------------------|-----------|--------------------|-------|-------------------------|----------------------------|---------|
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | 04/16/21 12:15 | 04/17/21 01:53 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | 04/16/21 12:15 | 04/17/21 01:53 | 1 |
| | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| Surrogate 4-Bromofluorobenzene (Surr) | %Recovery 120 | Qualifier | Limits 70 - 130 | | Prepared 04/16/21 12:15 | Analyzed 04/17/21 01:53 | Dil Fac |

0.00199

mg/Kg

04/16/21 12:15

<0.00199 U

04/17/21 01:53

Client Sample Results

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-6

04/17/21 02:14

04/16/21 12:15

Matrix: Solid

1

1

1

1

1

1

1

Dil Fac

Dil Fac

Matrix: Solid

Client Sample ID: PH03

Date Collected: 04/14/21 12:50 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| I-Chlorooctane | 115 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 16:13 | 1 |

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 115 | 4.99 | mg/Kg | | | 04/20/21 15:48 | 1 |

Client Sample ID: PH03A

Date Collected: 04/14/21 13:36 Date Received: 04/15/21 12:22 Sample Depth: - 3.0

| Method: 8021B - Volatile Orga | nic Compounds | (GC) | | | | | | |
|-------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 124 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 02:14 | 1 |

70 - 130

1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed <50.0 U 50.0 04/16/21 16:52 04/19/21 16:35 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U 50.0 04/16/21 16:52 04/19/21 16:35 **Diesel Range Organics (Over** mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/16/21 16:52 04/19/21 16:35 Total TPH 04/16/21 16:52 04/19/21 16:35 <50.0 U 50.0 mg/Kg %Recovery Qualifier Limits Prepared Analyzed Surrogate 04/16/21 16:52 1-Chlorooctane 70 - 130 04/19/21 16:35 110 o-Terphenyl 113 70 - 130 04/16/21 16:52 04/19/21 16:35

99

| Method: 300.0 - Anions, Ion Chrom | atography - | Soluble | | | | | | |
|-----------------------------------|-------------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 165 | | 24.9 | mg/Kg | | | 04/20/21 15:53 | 5 |

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Lab Sample ID: 890-529-5

Lab Sample ID: 890-529-7

Matrix: Solid

5

Client Sample ID: PH04 Date Collected: 04/14/21 13:52

Project/Site: Remuda 500

Client: WSP USA Inc.

Date Received: 04/15/21 12:22 Sample Depth: - 1.0

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 02:34 | 1 |
| Method: 8015B NM - Diesel Ra | ange Organics (D | RO) (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 16:58 | 1 |

| | | | | | 0 4 4 4 0 4 0 4 0 5 0 | | | |
|---|-----------|-----------|--------|---------|-----------------------|----------------|---------|--|
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac | |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | 04/16/21 16:52 | 04/19/21 16:58 | 1 | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | 04/16/21 16:52 | 04/19/21 16:58 | 1 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | 04/16/21 16:52 | 04/19/21 16:58 | 1 | |
| (GRO)-C6-C10 | | | | | | | | |
| Gasoline Kange Organics | ~30.0 | 0 | 50.0 | ing/itg | 0-110/2110.32 | 0-113/21 10.30 | 1 | |

| 1-Chlorooctane | 112 | 70 - 130 | 04/16/21 16:52 | 04/19/21 16:58 | 1 |
|----------------|---------------------|----------|----------------|----------------|---|
| o-Terphenyl | 112 | 70 - 130 | 04/16/21 16:52 | 04/19/21 16:58 | 1 |
| | atography - Soluble | | | | |

| Method: 300.0 - Anions, ion Chron | latography - | Soluple | | | | | | |
|-----------------------------------|--------------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 41.4 | | 5.00 | mg/Kg | | | 04/20/21 15:58 | 1 |
| | | | | | | | | |

Client Sample ID: PH04A Date Collected: 04/14/21 14:05

Lab Sample ID: 890-529-8 Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | < 0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 02:55 | 1 |

Date Received: 04/15/21 12:22 Sample Depth: - 3.0

Job ID: 890-529-1

Matrix: Solid

5

SDG: TE012921030

Lab Sample ID: 890-529-8

Lab Sample ID: 890-529-9

04/16/21 12:15 04/17/21 03:15

Matrix: Solid

1

Client Sample Results

Client: WSP USA Inc. Project/Site: Remuda 500

Client Sample ID: PH04A

Date Collected: 04/14/21 14:05

Date Received: 04/15/21 12:22 Sample Depth: - 3.0

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |
| o-Terphenyl | 101 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 17:20 | 1 |

| Method: 300.0 - Anions, Ion Chrom | hatography - S | Soluble | | | | | | |
|-----------------------------------|----------------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 65.5 | | 5.00 | mg/Kg | | | 04/20/21 16:03 | 1 |

Client Sample ID: PH05

Date Collected: 04/14/21 14:11 Date Received: 04/15/21 12:22 Sample Depth: - 1.0

1,4-Difluorobenzene (Surr)

| | nic Compounds (| (GC) | | | | | | |
|-----------------------------|-----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 03:15 | 1 |

70 - 130

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| o-Terphenyl | 138 | S1+ | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 17:42 | 1 |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | | | 25.2 | mg/Kg | | | 04/20/21 16:08 | 5 |

Lab Sample ID: 890-529-10

Matrix: Solid

5

Client Sample ID: PH05A Date Collected: 04/14/21 14:18 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|-----------|---------------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 03:35 | 1 |
| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | |
| | | | | | D | Durananad | Analyzed | Dil Fac |
| Analyte | Result | Qualifier | RL | Unit | U | Prepared | Analyzeu | Dirrac |
| · · · | Result <50.0 | | RL | Unit mg/Kg | | 04/16/21 16:52 | 04/19/21 18:03 | 1 |
| Gasoline Range Organics | | | | | | | | 1 |
| Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | | U | | | | | | 1 |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107 | 70 - 130 | 04/16/21 16:52 | 04/19/21 18:03 | 1 |
| o-Terphenyl | 131 S1+ | 70 - 130 | 04/16/21 16:52 | 04/19/21 18:03 | 1 |

50.0

mg/Kg

Method: 300.0 - Anions, Ion Chromatography - Soluble

<50.0 U

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 70.4 | 5.04 | mg/Kg | | | 04/20/21 16:13 | 1 |

Client Sample ID: PH06

Sample Depth: - 1.0

Total TPH

Lab Sample ID: 890-529-11 Matrix: Solid

04/19/21 18:03

04/16/21 16:52

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 03:56 | 1 |

```
4/22/2021
```

Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

Matrix: Solid

5

13

Lab Sample ID: 890-529-11

Lab Sample ID: 890-529-12

04/16/21 12:15 04/17/21 04:16

Matrix: Solid

1

Client Sample ID: PH06

Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 112 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |
| o-Terphenyl | 135 | S1+ | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 18:46 | 1 |

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 287 | 25.0 | mg/Kg | | | 04/20/21 16:18 | 5 |

Client Sample ID: PH06A

Date Collected: 04/14/21 14:59 Date Received: 04/15/21 12:22 Sample Depth: - 3.0

1,4-Difluorobenzene (Surr)

| – Method: 8021B - Volatile Orga | nic Compounds (| (GC) | | | | | | |
|------------------------------------|-----------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | 04/16/21 12:15 | 04/17/21 04:16 | 1 |

70 - 130

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| o-Terphenyl | 136 | S1+ | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 19:08 | 1 |
| _ Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 389 | | 24.8 | mg/Kg | | | 04/22/21 11:20 | 5 |

Matrix: Solid

5

Lab Sample ID: 890-529-13

Client Sample ID: PH07 Date Collected: 04/14/21 15:13 Date Received: 04/15/21 12:22

Sample Depth: - 1.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | < 0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 16:01 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|--|
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:30 | 1 | |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:30 | 1 | |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:30 | 1 | |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:30 | 1 | |
| | | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101 | | 70 - 130 | 04/16/21 16:52 | 04/19/21 19:30 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | 04/16/21 16:52 | 04/19/21 19:30 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 725 | 4.95 | mg/Kg | | | 04/22/21 11:28 | 1 |

Client Sample ID: PH07A Date Collected: 04/14/21 15:21

Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-14

Matrix: Solid

Sample Depth: - 3.0

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | < 0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 16:22 | 1 |

Client Sample Results

Job ID: 890-529-1 SDG: TE012921030

Client Sample ID: PH07A

Date Collected: 04/14/21 15:21 Date Received: 04/15/21 12:22

Sample Depth: - 3.0

Client: WSP USA Inc.

Project/Site: Remuda 500

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---------------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 118 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| o-Terphenyl | 120 | | 70 - 130 | | | 04/16/21 16:52 | 04/19/21 19:52 | 1 |
| Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 101 | | 5.00 | mg/Kg | | | 04/22/21 11:35 | |

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-529-14 Matrix: Solid

Client: WSP USA Inc. Project/Site: Remuda 500

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

| | | BFB1 | DFBZ1 | |
|-------------------|------------------------|----------|----------|---|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |) |
| 890-529-1 | PH01 | 109 | 107 | _ |
| 890-529-2 | PH01A | 110 | 107 | |
| 890-529-3 | PH02 | 107 | 103 | |
| 890-529-4 | PH02A | 108 | 108 | |
| 890-529-5 | PH03 | 120 | 92 | |
| 890-529-6 | PH03A | 124 | 99 | |
| 890-529-7 | PH04 | 113 | 102 | |
| 890-529-8 | PH04A | 110 | 107 | |
| 890-529-9 | PH05 | 113 | 104 | |
| 890-529-10 | PH05A | 108 | 106 | |
| 890-529-11 | PH06 | 113 | 108 | |
| 890-529-12 | PH06A | 110 | 105 | |
| 890-529-13 | PH07 | 99 | 120 | |
| 890-529-14 | PH07A | 120 | 103 | |
| LCS 880-1895/1-A | Lab Control Sample | 100 | 106 | |
| LCS 880-1901/1-A | Lab Control Sample | 89 | 108 | |
| LCSD 880-1895/2-A | Lab Control Sample Dup | 101 | 105 | |
| LCSD 880-1901/2-A | Lab Control Sample Dup | 88 | 108 | |
| MB 880-1895/5-A | Method Blank | 99 | 103 | |
| MB 880-1901/5-A | Method Blank | 109 | 89 | |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

| | | | | Pe | ł |
|-------------------|------------------------|----------|----------|----|---|
| | | 1CO1 | OTPH1 | | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |) | |
| 890-529-1 | PH01 | 114 | 125 | | |
| 890-529-1 MS | PH01 | 124 | 109 | | |
| 890-529-1 MSD | PH01 | 118 | 98 | | |
| 890-529-2 | PH01A | 119 | 123 | | |
| 890-529-3 | PH02 | 112 | 127 | | |
| 890-529-4 | PH02A | 112 | 118 | | |
| 890-529-5 | PH03 | 115 | 127 | | |
| 890-529-6 | PH03A | 110 | 113 | | |
| 890-529-7 | PH04 | 112 | 112 | | |
| 890-529-8 | PH04A | 104 | 101 | | |
| 890-529-9 | PH05 | 116 | 138 S1+ | + | |
| 890-529-10 | PH05A | 107 | 131 S1+ | + | |
| 890-529-11 | PH06 | 112 | 135 S1+ | + | |
| 890-529-12 | PH06A | 114 | 136 S1+ | + | |
| 890-529-13 | PH07 | 101 | 104 | | |
| 890-529-14 | PH07A | 118 | 120 | | |
| LCS 880-1907/2-A | Lab Control Sample | 108 | 125 | | |
| LCSD 880-1907/3-A | Lab Control Sample Dup | 119 | 105 | | |
| MB 880-1907/1-A | Method Blank | 117 | 139 S1+ | + | |

Prep Type: Total/NA

Prep Type: Total/NA

Page 53 of 77

Surrogate Summary

Client: WSP USA Inc. Project/Site: Remuda 500

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl Job ID: 890-529-1 SDG: TE012921030

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Eurofins Xenco, Carlsbad

Lab Sample ID: MB 880-1895/5-A

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

| Matrix: Solid | | | | | | | | | Prep T | vpe: To | otal/NA |
|--------------------------------|-------------|---------------|----------|---------|-----------|---------|----------|------------------------|-----------------|----------|---------|
| Analysis Batch: 1905 | | | | | | | | | | p Batcl | |
| Analysis Baton. 1000 | N | IB MB | | | | | | | | , Dato | |
| Analyte | | ult Qualifier | RI | - | Unit | | D F | repared | Analyz | ed | Dil Fac |
| Benzene | < 0.002 | 00 U | 0.00200 |) | mg/K | (g | 04/2 | 16/21 12:15 | 04/16/21 1 | | |
| Toluene | <0.002 | 00 U | 0.00200 |) | mg/K | | 04/* | 16/21 12:15 | 04/16/21 1 | 19:50 | |
| Ethylbenzene | <0.002 | 00 U | 0.00200 |) | mg/K | - | 04/* | 16/21 12:15 | 04/16/21 1 | 19:50 | |
| m-Xylene & p-Xylene | <0.004 | 00 U | 0.00400 |) | mg/K | | 04/* | 6/21 12:15 | 04/16/21 1 | 9:50 | |
| o-Xylene | <0.002 | 00 U | 0.00200 |) | mg/K | | 04/* | 16/21 12:15 | 04/16/21 1 | 19:50 | |
| Xylenes, Total | <0.004 | 00 U | 0.00400 |) | mg/K | | 04/* | 16/21 12:15 | 04/16/21 1 | 19:50 | |
| Total BTEX | <0.004 | | 0.00400 |) | mg/K | | | 6/21 12:15 | 04/16/21 1 | | |
| | | | | | U | 0 | | | | | |
| | | IB MB | | | | | | | | | |
| Surrogate | %Recove | - | Limits | _ | | | | Prepared | Analyz | | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | 99 | 70 - 130 | | | | | 16/21 12:15 | 04/16/21 | | |
| 1,4-Difluorobenzene (Surr) | 1 | 03 | 70 - 130 | | | | 04/ | 16/21 12:15 | 04/16/21 | 19:50 | 1 |
| Lab Sample ID: LCS 880-18 | 95/1-A | | | | | | Clien | t Sample | ID: Lab Co | ontrol § | Sample |
| Matrix: Solid | | | | | | | | - oumpro | Prep T | | |
| Analysis Batch: 1905 | | | | | | | | | | p Batcl | |
| | | | Spike | LCS | LCS | | | | %Rec. | | |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| Benzene | | | 0.100 | 0.08670 | | mg/Kg | | 87 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09622 | | mg/Kg | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1019 | | mg/Kg | | 102 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2078 | | mg/Kg | | 104 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1015 | | mg/Kg | | 101 | 70 <u>-</u> 130 | | |
| | | | 0.100 | 0.1010 | | ing/itg | | 102 | 10 - 100 | | |
| | LCS L | CS | | | | | | | | | |
| Surrogate | %Recovery Q | ualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | | | | | | | | |
| - Lab Sample ID: LCSD 880-1 | 895/2-4 | | | | | CI | ient San | nnle ID [.] I | ab Contro | l Samr | ole Dur |
| Matrix: Solid | | | | | | | | | Prep T | | |
| Analysis Batch: 1905 | | | | | | | | | | p Batcl | |
| | | | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limi |
| Benzene | | | 0.100 | 0.08446 | | mg/Kg | | 84 | 70 - 130 | 3 | 35 |
| Toluene | | | 0.100 | 0.09074 | | mg/Kg | | 91 | 70 - 130 | 6 | 35 |
| Ethylbenzene | | | 0.100 | 0.09413 | | mg/Kg | | 94 | 70 - 130 | 8 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.1926 | | mg/Kg | | 96 | 70 - 130 | 8 | |
| o-Xylene | | | 0.100 | 0.09473 | | mg/Kg | | 95 | 70 - 130 | 7 | |
| | | | | | | 5 5 | | | | | |
| | LCSD L | | | | | | | | | | |
| Surrogate | %Recovery Q | ualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | | |
| Lab Sample ID: MB 880-190 | 1/5-0 | | | | | | | Client S | ample ID: I | Methor | Riant |
| Matrix: Solid | | | | | | | | Short O | Prep T | | |
| | | | | | | | | | | p Batcl | |
| Analysis Batch: 1966 | | | | | | | | | rie | וטומם ע | 1. 130 |

| Analysis Batch: 1966 | | | | | | | Prep Bate | ch: 1901 |
|----------------------|----------|-----------|---------|-------|---|----------------|----------------|----------|
| | MB | МВ | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |

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5

7

Job ID: 890-529-1

SDG: TE012921030

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

Released to Imaging: 8/18/2021 11:47:49 AM

QC Sample Results

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

| | | | | | Client Sa | mple ID: Metho Prep Type: 1 Prep Bato | otal/NA |
|-----------|---------------------------|----------|--|---|---|--|---|
| MB | MB | | | | | | |
| Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| <0.00400 | U | 0.00400 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| <0.00400 | U | 0.00400 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| <0.00400 | U | 0.00400 | mg/Kg | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| МВ | МВ | | | | | | |
| %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 109 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| 89 | | 70 - 130 | | | 04/16/21 15:25 | 04/19/21 13:34 | 1 |
| | Result <0.00200 | | Result Qualifier RL <0.00200 | Result Qualifier RL Unit <0.00200 | Result Qualifier RL Unit D <0.00200 | MB MB Result Qualifier RL Unit D Prepared <0.00200 | MB MB Result Qualifier RL Unit D Prepared Analyzed <0.00200 |

Matrix: Solid Analysis Batch: 1966

| | Spike | LCS | LCS | | | | %Rec. | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09330 | | mg/Kg | | 93 | 70 - 130 | |
| Toluene | 0.100 | 0.09946 | | mg/Kg | | 99 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09902 | | mg/Kg | | 99 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1966 | | mg/Kg | | 98 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09692 | | mg/Kg | | 97 | 70 - 130 | |

| | LCS | LCS | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: LCSD 880-1901/2-A

Matrix: Solid Analysis Batch: 1966

| Analysis Batch: 1966 | | | | | | | | p Batch | : 1901 |
|----------------------|---------|---------|-----------|-------|---|------|----------|---------|--------|
| | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.09251 | | mg/Kg | | 93 | 70 - 130 | 1 | 35 |
| Toluene | 0.100 | 0.09484 | | mg/Kg | | 95 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.09385 | | mg/Kg | | 94 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1858 | | mg/Kg | | 93 | 70 - 130 | 6 | 35 |
| o-Xylene | 0.100 | 0.09071 | | mg/Kg | | 91 | 70 - 130 | 7 | 35 |
| LC | SD LCSD | | | | | | | | |

| | LCSD | LCSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

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SDG: TE012921030

Prep Batch: 1901

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Released to Imaging: 8/18/2021 11:47:49 AM

QC Sample Results

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

| Lab Sample ID: MB 880-1907/1 | -A | | | | | | | | | Client Sa | ample ID: N | lethod | Blank |
|---|-------------------|-------|-----------|----------------------|--------|----------|--------|-------|-------|-------------------------|-------------|---------|----------------|
| Matrix: Solid | | | | | | | | | | | Prep Ty | | |
| Analysis Batch: 1967 | | | | | | | | | | | | | n: 1907 |
| | | ΜВ | МВ | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | RL | | U | nit | D | F | repared | Analyze | d | Dil Fac |
| Gasoline Range Organics | < | \$0.0 | U | 50.0 | | m | g/Kg | | 04/1 | 6/21 16:52 | 04/19/21 1 | 2:53 | 1 |
| (GRO)-C6-C10 | | | | | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | < | 50.0 | U | 50.0 | | m | g/Kg | | 04/1 | 16/21 16:52 | 04/19/21 1 | 2:53 | 1 |
| Oll Range Organics (Over C28-C36) | < | \$0.0 | U | 50.0 | | m | g/Kg | | 04/1 | 6/21 16:52 | 04/19/21 1 | 2:53 | 1 |
| Total TPH | < | 50.0 | U | 50.0 | | m | g/Kg | | 04/1 | 6/21 16:52 | 04/19/21 1 | 2:53 | 1 |
| | | | | | | | | | | | | | |
| During weeks | 64 D = = = | MB | | 1 | | | | | | | A | | D# 5 |
| Surrogate | %Reco | 117 | Qualifier | Limits 70 - 130 | | | | | | Prepared 16/21 16:52 | Analyze | | Dil Fac |
| 1-Chlorooctane o-Terphenyl | | | S1+ | 70 - 130 70 - 130 | | | | | | 16/21 16:52 | 04/19/21 1 | | 1 |
| | | 159 | 37+ | 70 - 150 | | | | | 04/ | 10/21 10.52 | 04/13/211 | 2.00 | ' |
| Lab Sample ID: LCS 880-1907/ | 2-A | | | | | | | C | Clien | t Sample | ID: Lab Co | ntrol S | ample |
| Matrix: Solid | | | | | | | | | | | Prep Ty | ype: To | otal/NA |
| Analysis Batch: 1967 | | | | | | | | | | | Prep | Batch | n: 1907 |
| | | | | Spike | LCS | LCS | | | | | %Rec. | | |
| Analyte | | | | Added | Result | Qualifie | er Uni | t | D | %Rec | Limits | | |
| Gasoline Range Organics | | | | 1000 | 960.7 | | mg/ | ′Kg | | 96 | 70 - 130 | | |
| (GRO)-C6-C10 | | | | 1000 | 10.10 | | | | | 405 | 70 100 | | |
| Diesel Range Organics (Over C10-C28) | | | | 1000 | 1046 | | mg/ | кg | | 105 | 70 - 130 | | |
| (10-628) | | | | | | | | | | | | | |
| | LCS | | | | | | | | | | | | |
| Surrogate | %Recovery | Qua | lifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 108 | | | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 125 | | | 70 - 130 | | | | | | | | | |
| Lab Sample ID: LCSD 880-190 | 7/3-4 | | | | | | | Clien | t San | nnle ID [.] I | ab Control | Samn | le Dun |
| Matrix: Solid | | | | | | | | Unen | t Oun | | Prep Ty | | |
| Analysis Batch: 1967 | | | | | | | | | | | | | n: 1907 |
| Analysis Baton. 1001 | | | | Spike | LCSD | LCSD | | | | | %Rec. | , Datoi | RPD |
| Analyte | | | | Added | | Qualifie | ər Uni | t | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | | | | 1000 | 1157 | | mg/ | ′Kg | | 116 | 70 - 130 | 19 | 20 |
| (GRO)-C6-C10 | | | | | | | | • | | | | | |
| Diesel Range Organics (Over | | | | 1000 | 948.8 | | mg/ | ′Kg | | 95 | 70 - 130 | 10 | 20 |
| C10-C28) | | | | | | | | | | | | | |
| | LCSD | LCS | D | | | | | | | | | | |
| Surrogate | %Recovery | Qua | lifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 119 | | | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 105 | | | 70 - 130 | | | | | | | | | |
| | | | | | | | | | | | | | |
| Lab Sample ID: 890-529-1 MS | | | | | | | | | | | Client Sam | - | |
| Matrix: Solid | | | | | | | | | | | Prep Ty | | |
| Analysis Batch: 1967 | . . | - | _ | | | | | | | | | Batch | n: 1907 |
| | Sample | | - | Spike | | MS | | | _ | ~ - | %Rec. | | |
| Analyte | Result | | lifier | Added | | Qualifie | | | _ D | %Rec | Limits | | |
| Gasoline Range Organics | <49.9 | U | | 998 | 1230 | | mg/ | кg | | 123 | 70 - 130 | | |
| (GRO)-C6-C10 Diesel Range Organics (Over | <49.9 | U | | 998 | 1067 | | mg/ | 'Kα | | 107 | 70 - 130 | | |
| C10-C28) | .0.0 | 5 | | | 1007 | | iiig/ | 9 | | .07 | 100 | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |

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Job ID: 890-529-1 SDG: TE012921030 Client: WSP USA Inc.

Project/Site: Remuda 500

QC Sample Results

Job ID: 890-529-1 SDG: TE012921030

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

| Lab Sample ID: 890-529-1 MS Matrix: Solid | | | | | | | | | | | Client Samp Prep Typ | e: To | tal/NA |
|---|-------------|-------|-----------|--------------------------------|--------------------------------|--|---------------|----------------------|------------|--|--|-------------------------------------|---|
| Analysis Batch: 1967 | | | | | | | | | | | Prep | Batch | :: 190 |
| | MS | мs | | | | | | | | | | | |
| Surrogate | %Recovery | Qua | lifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 124 | Quu | | 70 - 130 | - | | | | | | | | |
| o-Terphenyl | 109 | | | 70 - 130 70 - 130 | | | | | | | | | |
| o-respirency | 103 | | | 70 - 750 | | | | | | | | | |
| Lab Sample ID: 890-529-1 MSD | | | | | | | | | | | Client Samp | le ID: | : PHO |
| Matrix: Solid | | | | | | | | | | | Prep Ty | | |
| Analysis Batch: 1967 | | | | | | | | | | | Prep | | |
| | Sample | Sam | ple | Spike | MSI |) MS | D | | | | %Rec. | | RP |
| Analyte | Result | | | Added | | t Qua | | Unit | D | %Rec | Limits | RPD | Lim |
| Gasoline Range Organics | <49.9 | | | 998 | 115 | | | mg/Kg | | 116 | 70 - 130 | 6 | 2 |
| (GRO)-C6-C10 | | 0 | | 000 | 110 | , | | mg/itg | | 110 | 70 - 100 | Ū | - |
| Diesel Range Organics (Over | <49.9 | U | | 998 | 982. | 3 | | mg/Kg | | 98 | 70 - 130 | 8 | 2 |
| C10-C28) | | | | | | | | | | | | | |
| | MSD | MOD | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Surrogate | %Recovery | Qua | litier | Limits | - | | | | | | | | |
| 1-Chlorooctane | 118 | | | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 98 | | | 70 - 130 | | | | | | | | | |
| Analysis Batch: 2014 | | | | | | | | | | | | | |
| | _ | | MB | | | | | | _ | | | | |
| Analyte | | | Qualifier | | | | Unit | | D | Prepared | Analyzed | | Dil Fa |
| Chloride | < | \$.00 | U | | 5.00 | | mg/K | g | | | 04/19/21 17: | 32 | |
| Lab Sample ID: LCS 880-1942/2- | ٨ | | | | | | | | | | | | |
| Matrix: Solid | ^ | | | | | | | | Clion | t Samnl | o ID· I ah Con | trol S | amnl |
| | | | | | | | | | Clien | t Sampl | e ID: Lab Con Brop Ty | | |
| | | | | | | | | | Clien | t Sampl | e ID: Lab Con Prep Ty | | |
| | | | | Spiko | | | - | | Clien | it Sampl | Prep Ty | | |
| Analysis Batch: 2014 | | | | Spike | | 6 LCS | | llait | | - | Prep Ty %Rec. | | |
| Analysis Batch: 2014 | | | | Added | Resu | t Qua | | Unit | Clien D | %Rec | Prep Ty %Rec. Limits | | |
| Analysis Batch: 2014 Analyte | | | | | | t Qua | | Unit mg/Kg | | - | Prep Ty %Rec. | | |
| Analysis Batch: 2014 Analyte Chloride | 3-4 | | | Added | Resu | t Qua | | mg/Kg | D | %Rec | Prep Ty %Rec. Limits 90 - 110 | pe: S | olubl |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 | 3-A | | | Added | Resu | t Qua | | mg/Kg | D | %Rec | Prep Ty %Rec. Limits 90 - 110 | pe: S | le Du |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid | 3-A | | | Added | Resu | t Qua | | mg/Kg | D | %Rec | Prep Ty %Rec. Limits 90 - 110 | pe: S | le Du |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 | 3- A | | | Added 250 | Resul | t Qua | alifier | mg/Kg | D | %Rec | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty | pe: S | le Du |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 | 3- A | | | Added 250 Spike | Resul | $\frac{\mathbf{t}}{3} = \frac{\mathbf{Qua}}{\mathbf{t}}$ | alifier SD | mg/Kg Cli | D_ | %Rec 102 mple ID: | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. | pe: S Sampl pe: S | le Du olubi |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte | 3-A | | | Added 250 Spike Added | Resul 254. LCSI Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli Unit | D | %Rec 102 mple ID: %Rec | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits | pe: S Sampl pe: S | le Du olubi olubi RP Lim |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte | 3-A | | | Added 250 Spike | Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli | D_ | %Rec 102 mple ID: | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. | pe: S Sampl pe: S | le Du olubi olubi RP Lim |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte Chloride | | | | Added 250 Spike Added | Resul 254. LCSI Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli Unit | D_ | %Rec 102 mple ID: %Rec 103 | Prep Ty %Rec. | pe: S Sampl pe: S RPD 1 | le Du olubi olubi RP Lim 2 |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Analyte Chloride Lab Sample ID: MB 880-1943/1-A | | | | Added 250 Spike Added | Resul 254. LCSI Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli Unit | D_ | %Rec 102 mple ID: %Rec 103 | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits 90 - 110 Sample ID: Me | pe: S Sampl pe: S RPD 1 | le Du Jolubi RP Lim 2 Blan |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid Analysis Batch: 2014 Chloride Lab Sample ID: MB 880-1943/1-A Matrix: Solid | | | | Added 250 Spike Added | Resul 254. LCSI Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli Unit | D_ | %Rec 102 mple ID: %Rec 103 | Prep Ty %Rec. | pe: S Sampl pe: S RPD 1 | le Du Jolubi RP Lim 2 Blan |
| Analysis Batch: 2014 Analyte Chloride Lab Sample ID: LCSD 880-1942/3 Matrix: Solid | | | | Added 250 Spike Added | Resul 254. LCSI Resul | $\frac{t}{3} = \frac{Qua}{LCs}$ | alifier SD | mg/Kg Cli Unit | D_ | %Rec 102 mple ID: %Rec 103 | Prep Ty %Rec. Limits 90 - 110 Lab Control S Prep Ty %Rec. Limits 90 - 110 Sample ID: Me | pe: S Sampl pe: S RPD 1 | le Du olubi colubi <u>Lim</u> 2 Blan |

| | MB | MB | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 04/20/21 13:46 | 1 |

Client: WSP USA Inc.

Project/Site: Remuda 500

Job ID: 890-529-1 SDG: TE012921030

Method: 300.0 - Anions, Ion Chromatography (Continued)

| Materia: Oalist | | | | | | | | Cli | ent | Sample | e ID: Lab C | | |
|--|--------|--------|-----------|-----------------------|---|------------------|---|----------|-----------|--|--|--|--|
| Matrix: Solid | | | | | | | | | | | Prep | Type: S | olub |
| Analysis Batch: 2049 | | | | 0 | 1.00 | | | | | | 0/ D | | |
| • • • | | | | Spike | | LCS | | | _ | ~ = | %Rec. | | |
| Analyte | | | | Added | | t Qualifier | | | <u>D</u> | %Rec | Limits | | |
| Chloride | | | | 250 | 260.7 | | mg/Kg | | | 104 | 90 - 110 | | |
| Lab Sample ID: LCSD 880-1943/3-A | | | | | | | CI | ient S | am | ple ID: | Lab Contro | | |
| Matrix: Solid | | | | | | | | | | | Prep | Type: S | olub |
| Analysis Batch: 2049 | | | | • • | | | | | | | ~- | | |
| | | | | Spike | | LCSD | | | _ | ~- | %Rec. | | RP |
| Analyte | | | | Added | - | Qualifier | | | D | %Rec | Limits | RPD | Lim |
| Chloride | | | | 250 | 261.7 | , | mg/Kg | | | 105 | 90 - 110 | 0 | 2 |
| Lab Sample ID: 890-529-2 MS | | | | | | | | | | | Client Sam | ple ID: I | PH01 |
| Matrix: Solid | | | | | | | | | | | Prep | Type: S | olub |
| Analysis Batch: 2049 | | | | | | | | | | | | | |
| | Sample | Samp | le | Spike | MS | MS | | | | | %Rec. | | |
| Analyte | Result | Qualif | ier | Added | Resul | t Qualifier | r Unit | | D | %Rec | Limits | | |
| Chloride | 197 | | | 250 | 458.4 | | mg/Kg | | _ | 105 | 90 - 110 | | |
| Lab Sample ID: 890-529-2 MSD | | | | | | | | | | | Client Sam | ple ID: F | РН01 |
| Matrix: Solid | | | | | | | | | | | | Type: S | |
| Analysis Batch: 2049 | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | Sample | Samp | le | Spike | MSE | MSD | | | | | %Rec. | | RF |
| Analyte | Result | | | Added | Resul | | r Unit | | D | %Rec | Limits | RPD | Lim |
| | 197 | | | | | | | | _ | 104 | 90 - 110 | | |
| Chloride | | | | 250 | 456.9 | , | mg/Kg | | | 104 | 30 - 110 | 0 | - |
| | | | | 250 | 450.8 | , | ilig/Kg | | | | | | |
| Lab Sample ID: MB 880-1944/1-A | | | | 250 | 450.8 | , | mg/Kg | | | | Sample ID: | Method | Blar |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid | | | | 250 | 456.8 | , | iiig/kg | | | | Sample ID: | | Blar |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid | | MR | MB | 250 | 456.8 | 9 | mg/kg | | | | Sample ID: | Method | Blan |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 | | MB I | | 250 | | | | Р | | Client \$ | Sample ID: Prep | Method Type: S | Blan olubl |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte | R | esult | Qualifier | 250 | | Un | it | <u>D</u> | | | Sample ID: Prep | Method Type: S | Blan olubl |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte | R | | Qualifier | 250 | | Un | | <u>D</u> | | Client \$ | Sample ID: Prep | Method Type: S | Blan olub |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte | R | esult | Qualifier | 250 | | Un | it | | P | Client S | Sample ID: Prep | Method Type: S zed 09:50 | Blan olub Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride | R | esult | Qualifier | 250 | | Un | it | | P | Client S | Sample ID: Prep Analyz 04/22/21 e ID: Lab C | Method Type: S zed 09:50 | Blan olub Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A | R | esult | Qualifier | 250 | | Un | it | | P | Client S | Sample ID: Prep Analyz 04/22/21 e ID: Lab C | Method Type: S zed 09:50 | Blan olub Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid | R | esult | Qualifier | 250 | RL 5.00 | Un | it | | P | Client S | Sample ID: Prep Analyz 04/22/21 e ID: Lab C | Method Type: S zed 09:50 | Blan olubl Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid | R | esult | Qualifier | | RL 5.00 | Un mg | it /Kg | Cli | P | Client S | Sample ID: Prep | Method Type: S zed 09:50 | Blan olubl Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte | R | esult | Qualifier | Spike | RL 5.00 | E LCS | it /Kg | Cli | P | Client S | Sample ID: Prep — Analy: 04/22/21 e ID: Lab C Prep %Rec. | Method Type: S zed 09:50 | Blan olub Dil Fa |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride | | esult | Qualifier | Spike Added | RL 5.00 LCS Resul | E LCS | it /Kg r <u>Unit</u> mg/Kg | Cli | Pr ent | Client S repared Sample <u>%Rec</u> 96 | Sample ID: Prep — Analy: 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 | Method Type: S 2ed 09:50 ontrol S Type: S | Blar olub Dil Fr amp olub |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A | | esult | Qualifier | Spike Added | RL 5.00 LCS Resul | E LCS | it /Kg r <u>Unit</u> mg/Kg | Cli | Pr ent | Client S repared Sample <u>%Rec</u> 96 | Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro | Method Type: S 2ed 09:50 ontrol S Type: S | Blar olub Dil F amp olub |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A Matrix: Solid | | esult | Qualifier | Spike Added | RL 5.00 LCS Resul | E LCS | it /Kg r <u>Unit</u> mg/Kg | Cli | Pr ent | Client S repared Sample <u>%Rec</u> 96 | Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro | Method Type: S 2ed 09:50 ontrol S Type: S | Blan olub Dil Fa ampi olub |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A | | esult | Qualifier | Spike Added 250 | RL 5.00 LCS Resul 239.5 | E LCS | it /Kg r <u>Unit</u> mg/Kg | Cli | Pr ent | Client S repared Sample <u>%Rec</u> 96 | Sample ID: Prep Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro Prep | Method Type: S 2ed 09:50 ontrol S Type: S | Blan olubi Dil Fa ampl olubi |
| Lab Sample ID: MB 880-1944/1-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCS 880-1944/2-A Matrix: Solid Analysis Batch: 2050 Analyte Chloride Lab Sample ID: LCSD 880-1944/3-A Matrix: Solid | | esult | Qualifier | Spike Added | RL 5.00 LCS Resul 239.5 | LCS Qualifier | it /Kg r <u>Unit</u> mg/Kg Cl | Clin | Pr ent | Client S repared Sample <u>%Rec</u> 96 | Sample ID: Prep — Analyz 04/22/21 e ID: Lab C Prep %Rec. Limits 90 - 110 Lab Contro | Method Type: S 2ed 09:50 ontrol S Type: S | Blan olubl Dil Fa ampl olubl |

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Client: WSP USA Inc. Project/Site: Remuda 500

Job ID: 890-529-1 SDG: TE012921030

GC VOA

Prep Batch: 1895

| Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|------------------------|--|---|---|---|
| PH01 | Total/NA | Solid | 5035 | |
| PH01A | Total/NA | Solid | 5035 | |
| PH02 | Total/NA | Solid | 5035 | |
| PH02A | Total/NA | Solid | 5035 | |
| PH03 | Total/NA | Solid | 5035 | |
| PH03A | Total/NA | Solid | 5035 | |
| PH04 | Total/NA | Solid | 5035 | |
| PH04A | Total/NA | Solid | 5035 | |
| PH05 | Total/NA | Solid | 5035 | |
| PH05A | Total/NA | Solid | 5035 | |
| PH06 | Total/NA | Solid | 5035 | |
| PH06A | Total/NA | Solid | 5035 | |
| Method Blank | Total/NA | Solid | 5035 | |
| Lab Control Sample | Total/NA | Solid | 5035 | |
| Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| Client Sample ID | Pron Type | Matrix | Method | Prep Batch |
| <u>.</u> | | | | |
| | | | | |
| Method Blank | Total/NA | Solid | 5035 | |
| Lab Control Sample | Total/NA | Solid | 5035 | |
| Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| | | | | |
| | Dren Tune | Matrix | Mathad | Drev Detch |
| | | | | Prep Batch 1895 |
| | | | | 1895 |
| | | | | 1895 |
| | | | | 1895 |
| | | | | 1895 |
| | PH01 PH01A PH02 PH02A PH03 PH03A PH04 PH05 PH05A PH06 PH06A Method Blank Lab Control Sample Lab Control Sample Dup | PH01 Total/NA PH01A Total/NA PH02A Total/NA PH03A Total/NA PH03A Total/NA PH04A Total/NA PH05 Total/NA PH05A Total/NA PH06A Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA PH07A Total/NA PH07A Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Lab Control Sample Dup Total/NA Lab Control Sample Dup Total/NA PH01 Total/NA PH02 Total/NA <td>PH01 Total/NA Solid PH01A Total/NA Solid PH02 Total/NA Solid PH02A Total/NA Solid PH03A Total/NA Solid PH03A Total/NA Solid PH04 Total/NA Solid PH04 Total/NA Solid PH05A Total/NA Solid PH06A Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07A Total/NA Solid PH07A Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup</td> <td>PH01 Total/NA Solid 5035 PH01A Total/NA Solid 5035 PH02 Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH05 Total/NA Solid 5035 PH06 Total/NA Solid 5035 PH06A Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 PH07 Total/NA Solid 5035 PH07 Total/NA Solid 5035</td> | PH01 Total/NA Solid PH01A Total/NA Solid PH02 Total/NA Solid PH02A Total/NA Solid PH03A Total/NA Solid PH03A Total/NA Solid PH04 Total/NA Solid PH04 Total/NA Solid PH05A Total/NA Solid PH06A Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07 Total/NA Solid PH07A Total/NA Solid PH07A Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup | PH01 Total/NA Solid 5035 PH01A Total/NA Solid 5035 PH02 Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH02A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH03A Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH04 Total/NA Solid 5035 PH05 Total/NA Solid 5035 PH06 Total/NA Solid 5035 PH06A Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 PH07 Total/NA Solid 5035 PH07 Total/NA Solid 5035 |

| 890-529-5 PH03 Total/NA Solid 8021B 1895 890-529-6 PH03A Total/NA Solid 8021B 1895 890-529-7 PH04 Total/NA Solid 8021B 1895 890-529-8 PH04A Total/NA Solid 8021B 1895 890-529-9 PH05A Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 LCSD 880-1895/2-A Lab Control Sample Dup Total/NA Solid 8021B 1895 | 890-529-4 | PH02A | Total/NA | Solid | 8021B | 1895 |
|---|-------------------|------------------------|----------|-------|-------|------|
| 890-529-7 PH04 Total/NA Solid 8021B 1895 890-529-8 PH04A Total/NA Solid 8021B 1895 890-529-9 PH05 Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-5 | PH03 | Total/NA | Solid | 8021B | 1895 |
| 890-529-8 PH04A Total/NA Solid 8021B 1895 890-529-9 PH05 Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-6 | PH03A | Total/NA | Solid | 8021B | 1895 |
| 890-529-9 PH05 Total/NA Solid 8021B 1895 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06A Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-7 | PH04 | Total/NA | Solid | 8021B | 1895 |
| 890-529-10 PH05A Total/NA Solid 8021B 1895 890-529-11 PH06 Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-8 | PH04A | Total/NA | Solid | 8021B | 1895 |
| 890-529-11 PH06 Total/NA Solid 8021B 1895 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-9 | PH05 | Total/NA | Solid | 8021B | 1895 |
| 890-529-12 PH06A Total/NA Solid 8021B 1895 MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-10 | PH05A | Total/NA | Solid | 8021B | 1895 |
| MB 880-1895/5-A Method Blank Total/NA Solid 8021B 1895 LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-11 | PH06 | Total/NA | Solid | 8021B | 1895 |
| LCS 880-1895/1-A Lab Control Sample Total/NA Solid 8021B 1895 | 890-529-12 | PH06A | Total/NA | Solid | 8021B | 1895 |
| | MB 880-1895/5-A | Method Blank | Total/NA | Solid | 8021B | 1895 |
| LCSD 880-1895/2-A Lab Control Sample Dup Total/NA Solid 8021B 1895 | LCS 880-1895/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 1895 |
| | LCSD 880-1895/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 1895 |

Analysis Batch: 1966

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-529-13 | PH07 | Total/NA | Solid | 8021B | 1901 |
| 890-529-14 | PH07A | Total/NA | Solid | 8021B | 1901 |
| MB 880-1901/5-A | Method Blank | Total/NA | Solid | 8021B | 1901 |
| LCS 880-1901/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 1901 |
| LCSD 880-1901/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 1901 |

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Client: WSP USA Inc. Project/Site: Remuda 500

5

Job ID: 890-529-1 SDG: TE012921030

GC Semi VOA

Prep Batch: 1907

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|------------------|------------------------|-----------|--------|-------------|------------|
| 890-529-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-529-2 | PH01A | Total/NA | Solid | 8015NM Prep | |
| 890-529-3 | PH02 | Total/NA | Solid | 8015NM Prep | |
| 390-529-4 | PH02A | Total/NA | Solid | 8015NM Prep | |
| 390-529-5 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 390-529-6 | PH03A | Total/NA | Solid | 8015NM Prep | |
| 390-529-7 | PH04 | Total/NA | Solid | 8015NM Prep | |
| 390-529-8 | PH04A | Total/NA | Solid | 8015NM Prep | |
| 390-529-9 | PH05 | Total/NA | Solid | 8015NM Prep | |
| 390-529-10 | PH05A | Total/NA | Solid | 8015NM Prep | |
| 390-529-11 | PH06 | Total/NA | Solid | 8015NM Prep | |
| 390-529-12 | PH06A | Total/NA | Solid | 8015NM Prep | |
| 390-529-13 | PH07 | Total/NA | Solid | 8015NM Prep | |
| 390-529-14 | PH07A | Total/NA | Solid | 8015NM Prep | |
| /IB 880-1907/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| -CS 880-1907/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| CSD 880-1907/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 390-529-1 MS | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-529-1 MSD | PH01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 1967

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-529-1 | PH01 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-2 | PH01A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-3 | PH02 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-4 | PH02A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-5 | PH03 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-6 | PH03A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-7 | PH04 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-8 | PH04A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-9 | PH05 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-10 | PH05A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-11 | PH06 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-12 | PH06A | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-13 | PH07 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-14 | PH07A | Total/NA | Solid | 8015B NM | 1907 |
| MB 880-1907/1-A | Method Blank | Total/NA | Solid | 8015B NM | 1907 |
| LCS 880-1907/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 1907 |
| LCSD 880-1907/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-1 MS | PH01 | Total/NA | Solid | 8015B NM | 1907 |
| 890-529-1 MSD | PH01 | Total/NA | Solid | 8015B NM | 1907 |

HPLC/IC

Leach Batch: 1942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-529-1 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-1942/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-1942/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-1942/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

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Released to Imaging: 8/18/2021 11:47:49 AM

Client: WSP USA Inc. Project/Site: Remuda 500

Job ID: 890-529-1 SDG: TE012921030

HPLC/IC

Leach Batch: 1943

| each Batch: 1943 | | | | | | |
|-------------------|------------------------|-----------|--------|----------|------------|---|
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | |
| 890-529-2 | PH01A | Soluble | Solid | DI Leach | | |
| 890-529-3 | PH02 | Soluble | Solid | DI Leach | | |
| 890-529-4 | PH02A | Soluble | Solid | DI Leach | | |
| 890-529-5 | PH03 | Soluble | Solid | DI Leach | | |
| 890-529-6 | PH03A | Soluble | Solid | DI Leach | | |
| 890-529-7 | PH04 | Soluble | Solid | DI Leach | | |
| 890-529-8 | PH04A | Soluble | Solid | DI Leach | | |
| 890-529-9 | PH05 | Soluble | Solid | DI Leach | | 8 |
| 890-529-10 | PH05A | Soluble | Solid | DI Leach | | |
| 890-529-11 | PH06 | Soluble | Solid | DI Leach | | |
| MB 880-1943/1-A | Method Blank | Soluble | Solid | DI Leach | | |
| LCS 880-1943/2-A | Lab Control Sample | Soluble | Solid | DI Leach | | |
| LCSD 880-1943/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | | |
| 890-529-2 MS | PH01A | Soluble | Solid | DI Leach | | |
| 890-529-2 MSD | PH01A | Soluble | Solid | DI Leach | | |
| each Batch: 1944 | | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | |
| 890-529-12 | PH06A | Soluble | Solid | DI Leach | | |
| 000 500 40 | DUOT | 0.1.1.1. | 0.11.1 | DULANT | | |

| 890-529-12 | PH06A | Soluble | Solid | DI Leach | |
|-------------------|------------------------|---------|-------|----------|--|
| 890-529-13 | PH07 | Soluble | Solid | DI Leach | |
| 890-529-14 | PH07A | Soluble | Solid | DI Leach | |
| MB 880-1944/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-1944/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-1944/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

Analysis Batch: 2014

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-529-1 | PH01 | Soluble | Solid | 300.0 | 1942 |
| MB 880-1942/1-A | Method Blank | Soluble | Solid | 300.0 | 1942 |
| LCS 880-1942/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 1942 |
| LCSD 880-1942/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 1942 |

Analysis Batch: 2049

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-529-2 | PH01A | Soluble | Solid | 300.0 | 1943 |
| 890-529-3 | PH02 | Soluble | Solid | 300.0 | 1943 |
| 890-529-4 | PH02A | Soluble | Solid | 300.0 | 1943 |
| 890-529-5 | PH03 | Soluble | Solid | 300.0 | 1943 |
| 890-529-6 | PH03A | Soluble | Solid | 300.0 | 1943 |
| 890-529-7 | PH04 | Soluble | Solid | 300.0 | 1943 |
| 890-529-8 | PH04A | Soluble | Solid | 300.0 | 1943 |
| 890-529-9 | PH05 | Soluble | Solid | 300.0 | 1943 |
| 890-529-10 | PH05A | Soluble | Solid | 300.0 | 1943 |
| 890-529-11 | PH06 | Soluble | Solid | 300.0 | 1943 |
| MB 880-1943/1-A | Method Blank | Soluble | Solid | 300.0 | 1943 |
| LCS 880-1943/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 1943 |
| LCSD 880-1943/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 1943 |
| 890-529-2 MS | PH01A | Soluble | Solid | 300.0 | 1943 |
| 890-529-2 MSD | PH01A | Soluble | Solid | 300.0 | 1943 |

Client: WSP USA Inc. Project/Site: Remuda 500

Job ID: 890-529-1 SDG: TE012921030

HPLC/IC

Analysis Batch: 2050

| alysis Batch: 2050 | | | | | |
|--------------------|------------------------|-----------|--------|--------|------------|
| ab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 90-529-12 | PH06A | Soluble | Solid | 300.0 | |
| 90-529-13 | PH07 | Soluble | Solid | 300.0 | 1944 |
| 90-529-14 | PH07A | Soluble | Solid | 300.0 | 1944 |
| IB 880-1944/1-A | Method Blank | Soluble | Solid | 300.0 | 1944 |
| CS 880-1944/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 1944 |
| SD 880-1944/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 1944 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 500

Client Sample ID: PH01 Date Collected: 04/14/21 10:06

Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/16/21 23:02 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 13:59 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1942 | 04/17/21 18:36 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2014 | 04/19/21 20:04 | WP | XM |

Client Sample ID: PH01A Date Collected: 04/14/21 10:40

Date Received: 04/15/21 12:22

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Ргер Туре | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/16/21 23:23 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 15:06 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2049 | 04/20/21 15:12 | WP | XM |

Client Sample ID: PH02

Date Collected: 04/14/21 10:59 Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-3 Matrix: Solid

Lab Sample ID: 890-529-4

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA 5035 04/16/21 12:15 XM Prep 1895 MR Total/NA Analysis 8021B 1905 04/17/21 01:12 MR XM 1 Total/NA 8015NM Prep 04/16/21 16:52 DM XM Prep 1907 Total/NA 8015B NM 04/19/21 20:14 ХМ Analysis 1 1967 AJ Soluble DI Leach 04/17/21 18:38 XM Leach 1943 СН 300.0 XM Soluble Analysis 2049 04/20/21 15:27 WP 1

Client Sample ID: PH02A Date Collected: 04/14/21 11:13 Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 01:33 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 20:35 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 5 | 2049 | 04/20/21 15:32 | WP | XM |

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-1 Matrix: Solid

Lab Sample ID: 890-529-2

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 500

Client Sample ID: PH03 Date Collected: 04/14/21 12:50

Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 01:53 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 16:13 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2049 | 04/20/21 15:48 | WP | XM |

Client Sample ID: PH03A Date Collected: 04/14/21 13:36

Date Received: 04/15/21 12:22

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 02:14 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 16:35 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 5 | 2049 | 04/20/21 15:53 | WP | XM |

Client Sample ID: PH04

Date Collected: 04/14/21 13:52 Date Received: 04/15/21 12:22

Lab Sample ID: 890-529-7 Matrix: Solid

Lab Sample ID: 890-529-8

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 02:34 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 16:58 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2049 | 04/20/21 15:58 | WP | XM |

Client Sample ID: PH04A Date Collected: 04/14/21 14:05 Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 02:55 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 17:20 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2049 | 04/20/21 16:03 | WP | XM |

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-5 Matrix: Solid

Lab Sample ID: 890-529-6

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 500

Client Sample ID: PH05 Date Collected: 04/14/21 14:11

Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Ргер Туре | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 03:15 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 17:42 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 5 | 2049 | 04/20/21 16:08 | WP | XM |

Client Sample ID: PH05A Date Collected: 04/14/21 14:18 Date Received: 04/15/21 12:22

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 1895 04/16/21 12:15 MR XM Total/NA 8021B Analysis 1905 04/17/21 03:35 MR XM 1 Total/NA Prep 8015NM Prep 04/16/21 16:52 XM 1907 DM Total/NA 8015B NM ΧМ Analysis 1 1967 04/19/21 18:03 AJ Soluble ХМ Leach DI Leach 1943 04/17/21 18:38 СН XM Soluble Analysis 300.0 1 2049 04/20/21 16:13 WP

Client Sample ID: PH06

Date Collected: 04/14/21 14:50 Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Ргер Туре | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 03:56 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 18:46 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1943 | 04/17/21 18:38 | СН | XM |
| Soluble | Analysis | 300.0 | | 5 | 2049 | 04/20/21 16:18 | WP | XM |

Client Sample ID: PH06A Date Collected: 04/14/21 14:59 Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1895 | 04/16/21 12:15 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1905 | 04/17/21 04:16 | MR | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 19:08 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1944 | 04/17/21 18:39 | СН | XM |
| Soluble | Analysis | 300.0 | | 5 | 2050 | 04/22/21 11:20 | WP | XM |

Lab Sample ID: 890-529-12

Matrix: Solid

Eurofins Xenco, Carlsbad

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Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-9 Matrix: Solid

Lab Sample ID: 890-529-10

Lab Sample ID: 890-529-11

Matrix: Solid

Matrix: Solid

5

9

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Project/Site: Remuda 500

Client Sample ID: PH07 Date Collected: 04/14/21 15:13

Date Received: 04/15/21 12:22

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|------------|--------------|-------------|-----|----------|--------|----------------|---------|-------------------------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1901 | 04/16/21 15:25 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1966 | 04/19/21 16:01 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 19:30 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1944 | 04/17/21 18:39 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2050 | 04/22/21 11:28 | WP | XM |
| lient Samp | le ID: PH07A | <u> </u> | | | | | | Lab Sample ID: 890-529- |

Client Sample ID: PH07A Date Collected: 04/14/21 15:21 Date Received: 04/15/21 12:22

| _ | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-------------|-----|----------|--------|----------------|---------|-----|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 1901 | 04/16/21 15:25 | MR | XM |
| Total/NA | Analysis | 8021B | | 1 | 1966 | 04/19/21 16:22 | KL | XM |
| Total/NA | Prep | 8015NM Prep | | | 1907 | 04/16/21 16:52 | DM | XM |
| Total/NA | Analysis | 8015B NM | | 1 | 1967 | 04/19/21 19:52 | AJ | XM |
| Soluble | Leach | DI Leach | | | 1944 | 04/17/21 18:39 | СН | XM |
| Soluble | Analysis | 300.0 | | 1 | 2050 | 04/22/21 11:35 | WP | XM |

Laboratory References:

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

Eurofins Xenco, Carlsbad

Job ID: 890-529-1 SDG: TE012921030

Lab Sample ID: 890-529-13 Matrix: Solid

Released to Imaging: 8/18/2021 11:47:49 AM

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Remuda 500

Laboratory: Eurofins Xenco, Midland

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

| ithority | | ogram | Identification Number | Expiration Date | |
|--|---|--------------------------------|--|---------------------------|--|
| xas | NE | LAP | T104704400-20-21 | 06-30-21 | |
| The following analytes | are included in this report, but | t the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for w | |
| the agency does not o Analysis Method | | Matrix | Analyte | | |
| the agency does not o Analysis Method 8015B NM | fer certification . Prep Method 8015NM Prep | Matrix Solid | Analyte Total TPH | | |

10

Job ID: 890-529-1

SDG: TE012921030

Eurofins Xenco, Carlsbad

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

Protocol References:

Client: WSP USA Inc. Project/Site: Remuda 500

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:

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

Eurofins Xenco, Carlsbad

Client Sample ID

PH01

PH01A

PH02

PH02A

PH03

PH03A

PH04

PH04A

PH05

PH05A

PH06

PH06A

PH07

PH07A

Sample Summary

Collected

04/14/21 10:06

04/14/21 10:40

04/14/21 10:59

04/14/21 11:13

04/14/21 12:50

04/14/21 13:36

04/14/21 13:52

04/14/21 14:05

04/14/21 14:11

04/14/21 14:18

04/14/21 14:50

04/14/21 14:59

04/14/21 15:13

04/14/21 15:21

Received

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

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04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

04/15/21 12:22

Depth

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

- 1.0

- 3.0

Matrix

Solid

Client: WSP USA Inc. Project/Site: Remuda 500

Lab Sample ID

890-529-1

890-529-2

890-529-3

890-529-4

890-529-5

890-529-6

890-529-7

890-529-8

890-529-9

890-529-10

890-529-11

890-529-12

890-529-13

890-529-14

12 13 14

| Job ID: 890-529-1 | |
|-------------------|--|
| SDG: TE012921030 | |
| | |

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| | | | ~ | Chain of Custody | VDOISN | × | Work Order No: _ | |
|------------------------------|---|---|--|---|--|--|--------------------------|---|
| X | XmNCO | Housto | n,TX (281) 240-4200 (| Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (214) | 0 San Antonio, TX (210) 509-3334 | | | |
| | ロ た 入 T ロ R i 所 領 | Hobbs,NM (575-39 | 2-7550) Phoenix,AZ (4 | 180-355-0900) Atlanta, | Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | | www.xenco.com | Page 1 of J |
| Project Manager: | Dan Moir | | Bill to: (if different) | Kyle Littrell | | | Work Order Comments | ments |
| | WSP USA | | Company Name: | XTO Energy | | Program: UST/PST | RP prownfields | s [RC {] perfund |
| | 3300 North A Street | | Address: | 522 W. Mermod St | | State of Project: | | |
| City, State ZIP: N | Midland, TX 79705 | | City, State ZIP: | Carlsbad, NM 88220 | 20 | Reporting:Level II | | |
| Phone: (| (432) 236-3849 | Email | Email: Jeremy.Hill@wsp.com, | com, Dan Moir@wsp.com | com | Deliverables: EDD | ADaPT | Other: |
| Project Name: | nemude So | 100 T | Turn Around | | ANALYSIS REQUEST | EST | | Work Order Notes |
| Project Number: | TEC12921030 | Ro | ine IV | | | | CC | CC: 106760 1001 |
| | Spill Data 2/8 | 18/21 Rush: | | | | | 4 | 7~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Sampler's Name: | Jeremy Hill | | Due Date: | | | | 10 | |
| SAMPLE RECEIPT | PT Temp Blank: | Nes No Wet Ice: | Yes No | | | | | |
| Temperature (°C): | 4.6 | Thermometer ID | |)) | - | | | |
| Received Intact: | (Yes) No | T-NM-00- | | 021) | Second to the second se | rota | | |
| Cooler Custody Seals: | Yes (No | Correction Factor: | 4.4 | 0=8 | | | | TAT starts the day receiied by the |
| Sample Custody Seals | : Yes Nor N/A | I otal Containers: | er c | (EPA | | | | lab, if received by 4.30pm |
| Sample Identification | fication Matrix | Date Time Sampled Sampled | Depth | TPH (I BTEX Chlor | | | | Sample Comments |
| puter | 2 | 9001 JC/HI/H | 1.0 1 | XXX | | | | Discale |
| PIFOLA | | 1 1040 | 3.0 | | | | | |
| 101-00 | | 1051 | 1.0. | | | | | |
| Neofid | | 1113 | 3.0 | | | | | |
| P1-103 | | 198422 | 1.0 | | | | | |
| PHO3A | | 1336 | 3.0. | | | | | |
| Ditori | | 1352 | 1.0. | | | | | |
| PITONA | | 1405 | 3,6' | | | | | |
| DItos | | 11411 | 1.0. | | | | | |
| PItoSA | 8 | 81h1 A | 3.0. | 4 | | | | 9 |
| Total 200.7 / 6010 | 10 200.8 / 6020: | <u>∞</u> | kas 11 | VI Sb As Ba Be | Cd Ca Cr Co | Mn Mo Ni K | Se Ag SiO2 Na Sr | r TI Sn U V Zn |
| Circle Method(s) | Circle Method(s) and Metal(s) to be analyzed | alyzed TCLP / SPLP 6010: | LP 6010: 8RCRA | Sb As Ba Be | Cd Cr Co Cu Pb Mn Mo Ni Se | II SE AG II U | 76377 | 1631 / 243.1 / /4/U / /4/1 . Hg |
| of Xenco. A minimum char | cument and relinquishment o ible only for the cost of sampi ge of \$75.00 will be applied to | f samples constitutes a valid p les and shall not assume any r each project and a charge of 1 | urchase order from clie esponsibility for any los 5 for each sample subn | nt company to Xenco, its ses or expenses incurrec nitted to Xenco, but not ar | Note: Orgenture 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. | ns standard terms and conc o circumstances beyond the unless previously negotlated | litions control d. | |
| Relinquished by: (Signature) | (Signature) | Received by: (Signature | ure) | Date/Time | Relinquished by: (Signature) | ure) Receiv | Received by: (Signature) | Date/Time |
| 1 mar | Ciarban | and uish | 172:22 | | 2 | | | |
| 3 | | | | | 4 | | | |
| 5 | | | | | 0 | | | Revised Date 051418 Rev 2018 |
| | | | | | | | | Revised Date 051418 Rev 2018 1 |

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Released to Imaging: 8/18/2021 11:47:49 AM

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| | | | Chain of Custody | ustodv | Worl | Work Order No: | |
|---|---|--|---|---|--|--------------------------|---|
| X | XENCO | Houston,TX (281) 240-42 Midland TX (432-704-5- | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)7 | louston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio.TX (210) 509-3334 Mirland 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) | AZ (480-355-0900) Atlanta,G | A (770-449-8800) Tampa,FL (813- | WW | www.xenco.com Page | 010 |
| Project Manager: | Dan Moir | Bill to: (if different) | t) Kyle Littrell | | | Order Comme | |
| / Name: | WSP USA | Company Name: | | | State of Project: | RP prowntields kc | (C)perruna |
| | Midland TV 70705 | City State 710 | Carlebad NM 88220 | 5 | Reporting:Level II Lev | | |
| Phone: () | (432) 236-3849 | Email: Jeremy.Hill@w | sp.co | om | Deliverables: EDD | ADaPT | Other: |
| Namo. | Dounder 560 | Turn Around | | ANALYSIS REQUEST | IST | Wo | Work Order Notes |
| Project Number: | 15012921030 | Routine IV | | | | | CC: 1067601001 |
| P.O. Number: | Sp.11 N.K. 2/8/21 | Rush: | | | | Tre dat N | NAPPA104347351 |
| Sampler's Name: | Jeremy Hill | Due Date: | | | | | |
| SAMPLE RECEIPT | Temp Blank: | Yes No Wet Ice: Yes No | 5 | | | | |
| Temperature (°C): | 1,10 | Thermometer ID |) | | | | |
| Received Intact: Cooler Custody Seals: | Yes No 1- | Correction Factor: U.U. |)15))=8021 | | | TAT start | TAT starts the day recevied by the |
| Sample Custody Seals | Yes (No) | Total Containers: | PA 8 | | | lab, ii | tab, if received by 4:30pm |
| Sample Identification | Matrix | Date Time Depth Sampled | Numb TPH (E BTEX (Chlorid | | | San | Sample Comments |
| Pitab | /r 51 | 14/2 1450 1.8' | XXX 1 | | | pig | Discrete |
| P1+0.02 | | 2 | | | | | |
| DIto? | | 1513 1.0' | | | | | |
| putona | < | 1521 3.0 | 4 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Total 200.7 / 6010 Circle Method(s) a | otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | 8RCRA 13PPM Texas 11 A d TCLP / SPLP 6010: 8RCRA | 1 Al Sb As Ba Be B Cd Ca CRA Sb As Ba Be Cd Cr Co | 3 Cd Ca Cr Co Cu Fe Pb Mg Mn Mo M d Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | i Mg Mn Mo Ni K Se Ag SiO2 Na Ii Se Ag Ti U 1631 | Sr TI / 245. | Sn U V Zn 1 <i>1</i> 7470 <i>1</i> 7471 : Hg |
| <u>Notice: Signature of this de</u> of service. Xenco will be li of Xenco. A minimum char | oument and refinquistiment of samp able only for the cost of samples and ge of \$75.00 will be applied to each p | Notice: Supature of the determent and refinquismment or samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Service. 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. | n client company to Xenco, its a ny losses or expenses incurred submitted to Xenco, but not an | affliates and subcontractors. It assign by the client if such losses are due to alyzed. These terms will be enforced u | ns standard terms and condition o circumstances beyond the con unless previously negotiated. | ns Itrol | |
| Relinquished by: (Signature) | (Signature) Rec | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | ure) Received | Received by: (Signature) | Date/Time |
| 1 Jon l | r Clabby | U 411512112:22 | | 4 2 | | | |
| 5 | | | | σ | | | Revised Date 051418 Rev 2018 1 |
| | | | | | | | Revised Date 051418 Rev 2018 1 |

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Eurotins Xenco, Carlsbad 1089 N Canal St.

Chain of 13 2

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Carlsbad NM 88220 1089 N Canal St. Eurofins Xenco, Carlsbad 8

Chain of Custody Record

13

🔅 eurofins

| Carlsbad NM 88220 Phone 575.088.3100 Eav: 575.088.3100 | | Chain of | Chain of Custody Record | Rec | Ör | 0 | | | | | | | | | | | | ¢ | | > m | Environment Testing America |
|--|---------------------------------|---|---|---|-------------------|---------------------------|------------------|---|----------|-------------------|----------------------------|--------------------------------|---------------------|----------|------------|------|---------------------------|--|--|----------|---------------------------------------|
| Client Information (Sub Contract Lab) | Sampler: | | 75 | Lab PM Kramer Jessica | Jessi | _ର | | | | | | Carrier Tracking No(s) | Track | ing No | (s) | | | <u>8 0</u> | COC No: 890-168 2 | | |
| | Phone [.] | | <u> </u> | E-Mail jessica kramer@eurofinset com | rame | @e | Irofin | set co | з | | | State of Origin: New Mexico | fOrig | 8 3 | | | | ק ק | Page Page 2 of 2 | | |
| Company: Eurofins Xenco | | | | Accr | AP - | Ins Re | iquired Siana | Accreditations Required (See note) NELAP - Louisiana NELAP | <u>۳</u> | Texas | L | | | | | | | ی م <u>چ</u> | Job #: 890-529-1 | | |
| Address. 1211 W Florida Ave | Due Date Requested 4/21/2021 | ted | | | | | | > | 2 1 | vsis | Requested | lest | 2 | | | | | – | Preservation Codes | des | |
| City Midland | TAT Requested (days) | lays) | | | <u>alaanad</u> | | - | -1 | | | | | | | _ | | | <u>~~~</u> ∖ ⊡ ≻ | HCL NaOH | ZZ | |
| State, Zip. TX, 79701 | | | | <u> .</u> | <u> Andrea</u> | | | | ****** | | | | | | | | , Maria 144. | πσα | | ους | ASNAUZ Na2O4S Na2SO3 |
| Phone: 432-704-5440(Tel) | PO #: | | | | ТРН | | | | | | | | | | | | | | | י כד מיו | Na2S2O3 H2SO4 |
| Email | WO # | | | | 6.492.06.0.01 | · · · · · · · · · · · · · | | | | | | | | | | | n ja ja mang a | Generalista | Ascorbic Acid Ice DI Water | < | I SP Dodecanydrate Acetone MCAA |
| Project Name: Remuda 500 | Project #: | | | 10.5-Y COTTON | ida (h-l | | | | | | | | | | | | | | EDA | N≶ | other (specify) |
| Site: | SSOW# | | | 0.0000000000000000000000000000000000000 | <u> 199</u> 58. | | | | | | | | | | | | Sec. 10 | ANICARCO CON | Other [.] | | |
| | | | - | tered S | Areality (1, A.S. | | | | | | | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample () Time 0 | (C=comp, 0=waste/oll, G=grab) BT=Tissue, A=Air | Field Fi | Perforn 8015MO | 300_OR | 8021B/5 | | | | | | | | | | Total Ni | IULAI IN | Special | nstr | Special Instructions/Note: |
| | N | | 00.0 | Second | X | | in the second | antourte A | | auricu a | | the state | | | | | | \triangle | | | |
| PH05A (890-529-10) | 4/14/21 | 14 18 Mountain | Solid | | × | × | × | | | | | | | | | | (in the | | | | |
| PH06 (890-529-11) | 4/14/21 | 14 50 Mountain | Solid | | × | × | × | | | | | | | | | | 4 | , see s named at | | | |
| PH06A (890-529-12) | 4/14/21 | 14 59 Mountain | Solid | | × | × | × | | | | | | | | | | E carlo de | | | | |
| РН07 (890-529-13) | 4/14/21 | 15 13 Mountain | Solid | | × | × | × | | | | | | | | | | ي ي | and the second | | | |
| PH07A (890-529-14) | 4/14/21 | 15 21 Mountain | Solid | | × | × | × | | | | | | | | | ┝──┤ | | ، نېغې (درهمېرونه | | | |
| | | | | <u> </u> | + | + | + | | 1 | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _ | | 1 | <u>Barrieran</u> | | | |
| | | | | <u> </u> | + | + | | \square | | | ļ | Ļ | | _ | _ | | | and the second s | | | |
| | | | | | - | | | | | | | ļ | ļ | ļ | | | (1-1-1-) 1 | Looman | | | |
| Note Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be horiget to Eurofine Xenco | LC places the ownersh | ip of method analy samples must be s | te & accreditation com | ofins Xer | | t subc | ontrac | t labora | atories | This | samp | e ship | ment | s forw | arded | unde | chai | T-of-c | ustody If the lat | borato | ry does not currently |
| Possible Hazard Identification Unconfirmed | | | | | | Ref: | ispos | Sample Disposal (A fee | fee | may | be assessed if samples are | assessed if san | ed i | san | nple | are | reta | inec | retained longer than Archive For | 1 | month) |
| Deliverable Requested 1 II III IV Other (specify) | Primary Deliverable Rank 2 | rable Rank 2 | | | Speci | al In | struct | Special Instructions/QC | | Requirements | emer | ts | | | | | | | | | |
| Empty Kit Relinquished by | | Date | | Time | Ð | | | | | | | | Method of Shipment: | of St | lipme | f | | | | | |
| Relinquished by DUDATA OrdUNL2 | 5 | 15/13/1 | Company | | R | Received by | a by | 8 | M | \mathcal{N} | N, | | | | Date/Time: | me: | | | | 0 | Company |
| 1 | Date/ I ime: | | Company | | Re | Received by | ďByć | | | , | ſ | | | | Date/Time: | me: | | | | 0 | Company |
| Relinquished by | Date/Time; | | Company | | R | Received by | d by | | | | | | | | Date/Time: | me: | | | | | Company |
| Custody Seals Intact Custody Seal No ∆ Yes ∆ No | | | | | <u></u> | oler T | emper | Cooler Temperature(s) °C | | and Other Remarks | er Rer | narks. | | ļ | | | | | | ŀ | |

Ver 11/01/2020

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 529 List Number: 1 Creator: Ordonez, Gabby

<6mm (1/4").

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

Job Number: 890-529-1 SDG Number: TE012921030 List Source: Eurofins Carlsbad 5 6 7 8 9 10 11 12 13 14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 529 List Number: 2 Creator: Copeland, Tatiana

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

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

14

Job Number: 890-529-1 SDG Number: TE012921030

List Source: Eurofins Midland

List Creation: 04/16/21 11:40 AM

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

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

District III

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

District IV

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

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

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 27390 |
| | 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 #NAPP2104347351 REMUDA 500 CTB, thank you. This closure is approved. | 8/18/2021 |
| | | |

CONDITIONS

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Action 27390