

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    | NRM2030836976 |
| 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@xtoenergy.com       | Incident #        | (assigned by OCD) |
| Contact mailing address | 522 W. Mermod, Carlsbad, NM 88220 |                   |                   |

### Location of Release Source

Latitude 32.27672 Longitude -103.94467  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                            |           |                 |
|-------------------------|----------------------------|-----------|-----------------|
| Site Name               | Remuda South 25 State 501H | Site Type | Well pad        |
| Date Release Discovered | 10-13-2020                 | API#      | (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| E           | 25      | 23S      | 29E   | Eddy   |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

|                                                      |                                                                                          |                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                   | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Produced Water              | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
|                                                      | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                  | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas                 | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                   |
| <input checked="" type="checkbox"/> Other (describe) | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                  |
| Drilling mud                                         | 0.64 bbls                                                                                | 0 bbls                                                   |

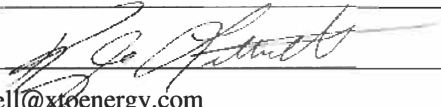
Cause of Release While circulating through the mud gas separator, oil based mud was inadvertently routed to the flare stack causing a 0.64 bbl release that subsequently ignited. A third-party contractor has been retained for remediation activities.

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|----------------|---------------|
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|                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                             | If YES, for what reason(s) does the responsible party consider this a major release?<br>An unauthorized release of a volume that results in a fire or is the result of a fire. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>No, by Kyle Littrell to 'Bratcher, Mike, EMNRD'; 'Hamlet, Robert, EMNRD'; 'Venegas, Victoria, EMNRD'; Mann, Ryan on Tuesday, October 20, 2020 12:15 PM via email. |                                                                                                                                                                                |

## Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |
| <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |
| If all the actions described above have <u>not</u> been undertaken, explain why:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |
| 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: SH&E Supervisor  |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: 10-27-20          |
| email: Kyle_Littrell@xtoenergy.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Telephone: 432-221-7331 |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| Received by: Ramona Marcus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date: 11/3/2020         |

|                                          |                                   |         |
|------------------------------------------|-----------------------------------|---------|
| <b>Location:</b>                         | <b>Remuda South 25 State 501H</b> |         |
| <b>Spill Date:</b>                       | <b>10/13/2020</b>                 |         |
| <b>Area 1</b>                            |                                   |         |
| Approximate Area =                       | 2862.00                           | sq. ft. |
| Average Saturation (or depth) of spill = | 0.50                              | inches  |
|                                          |                                   |         |
| Average Porosity Factor =                | 0.03                              |         |
|                                          |                                   |         |
| <b>VOLUME OF LEAK</b>                    |                                   |         |
| Total Drilling mud =                     | 0.64                              | bbls    |

|                               |      |      |
|-------------------------------|------|------|
| <b>TOTAL VOLUME OF LEAK</b>   |      |      |
| Total Drilling mud=           | 0.64 | bbls |
| <b>TOTAL VOLUME RECOVERED</b> |      |      |
| Total Drilling mud =          | 0.00 | bbls |

|                |               |
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## Site Assessment/Characterization

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

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

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

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

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

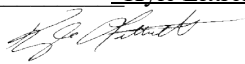
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
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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: SH&E SupervisorSignature:  Date: 01/07/2021email: Kyle\_Littrell@xtoenergy.com Telephone: (432)-221-7331**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
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## Closure

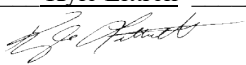
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 01/07/2021

email: Kyle\_Littrell@xtoenergy.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: \_\_\_\_\_

|                |               |
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## Closure

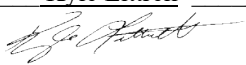
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- ☒ Description of remediation activities

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 01/07/2021

email: Kyle\_Littrell@xtoenergy.com Telephone: 432-221-7331

### OCD Only

Received by: Robert Hamlet Date: 4/26/2021

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

Closure Approved by: Robert Hamlet Date: 4/26/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



WSP USA

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

January 11, 2021

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

**RE: Closure Request  
Remuda South 25 State 501H  
Incident Number NRM2030836976  
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Remuda South 25 State 501H (Site) in Unit E, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of oil-based drilling mud at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2030836976.

## **RELEASE BACKGROUND**

On October 13, 2020, while circulating through the mud-gas separator, oil-based mud was inadvertently routed to the flare stack causing a release of approximately 0.64 barrels (bbls) of drilling mud onto the caliche well pad that subsequently ignited. No fluids 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 October 27, 2020 and was assigned Incident Number NRM2030836976.

## **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 the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04494, located approximately 0.34 miles southeast of the Site. In an effort to confirm depth to water in the area, a borehole (C-04494) was advanced to a depth of 105 feet bgs via sonic drill rig. The location of the borehole is provided on Figure 1. A WSP geologist logged and described soils continuously.



The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. On January 8, 2021, after the 72-hour waiting period without observing groundwater, it was confirmed the groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 4,370 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

## **CLOSURE CRITERIA**

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

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

## **SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS**

On November 5, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected six preliminary soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the impacted soil. Soil was 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.

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 Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following



United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (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 through SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS04 through SS06 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation activities were warranted.

### **EXCAVATION AND SOIL SAMPLING ACTIVITIES**

Between November 18, 2020 and November 19, 2020, WSP personnel returned to the Site to oversee excavation activities as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. Impacted soil was excavated utilizing a track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The final excavation measured approximately 3,800 square feet. Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. A total of nineteen composite floor soil samples (FS01 through FS19) were collected from the excavation. Composite soil samples FS01 through FS09, FS12, FS13 and FS16 were collected from the floor of the excavation from a depth of 1 foot bgs. Composite soil samples FS10, FS11, FS14, FS15 and FS17 through FS19 were collected from the floor of the excavation from a depth of 2 feet bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 2.

The excavation area measured approximately 3,800 square feet. A total of approximately 141 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation soil sampling, the excavation area was secured with fencing.

### **SOIL ANALYTICAL RESULTS**

Laboratory analytical results for preliminary soil samples SS01 through SS03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the

District II  
Page 4

Closure Criteria. Laboratory analytical results for preliminary soil samples SS04 through SS06 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria.

Laboratory analytical results for excavation floor samples FS01 through FS19, collected from the final excavation extent indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Attachment 3.

### CLOSURE REQUEST

Response efforts as a result of the October 13, 2020 oil-based mud release included excavation, removal of impacted soil, and collection of confirmation soil samples. Based on analytical results, the impacted soil was removed to a maximum depth of 2 feet bgs. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and the reclamation standard and no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Based on the confirmation soil sample analytical results indicating benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the strictest Closure Criteria, XTO respectfully requests NFA for Incident Number NRM2030836976.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Elliot Lee', written over a set of horizontal lines.

Elliot Lee  
Staff Environmental Scientist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager', written over a set of horizontal lines.

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

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

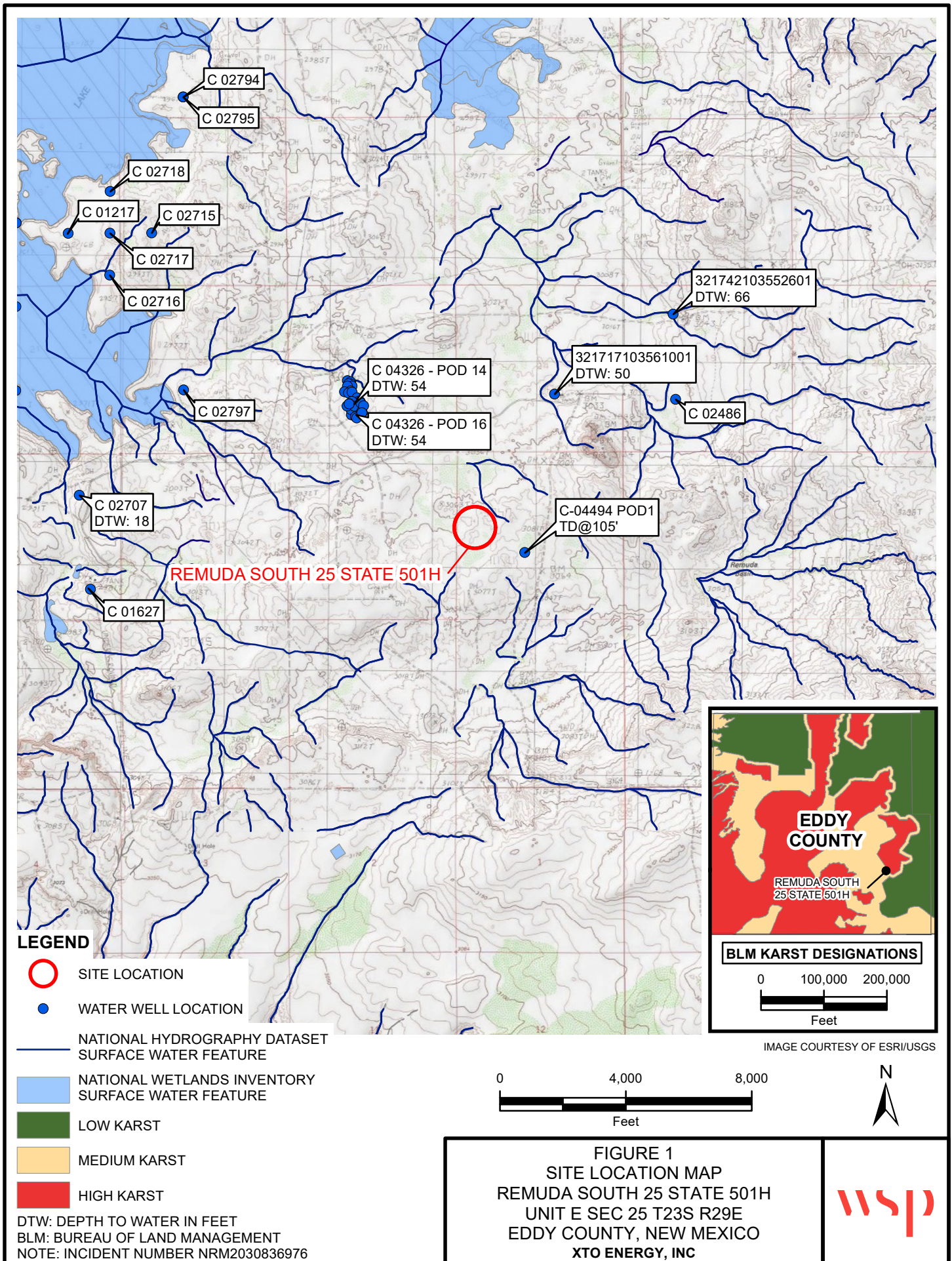
Attachments:



District II  
Page 5

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

FIGURES



P:\XTO Energy\GIS\MXD\012920155\_REMUDA SOUTH 25 STATE 501H\012920155\_FIG01\_SL\_RECEPTOR\_2020.mxd

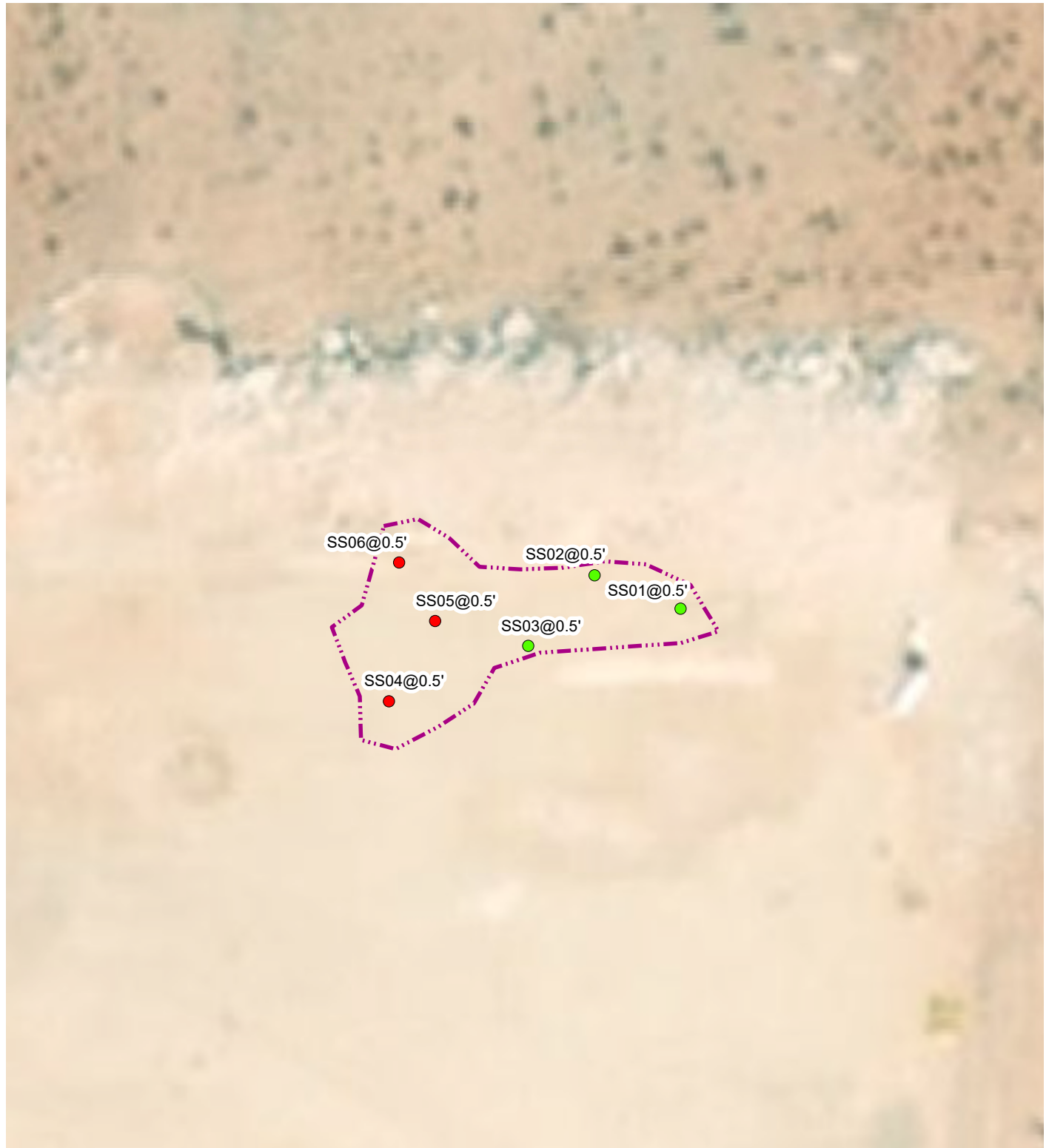
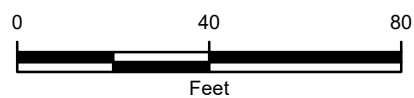


IMAGE COURTESY OF ESRI

**LEGEND**

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT

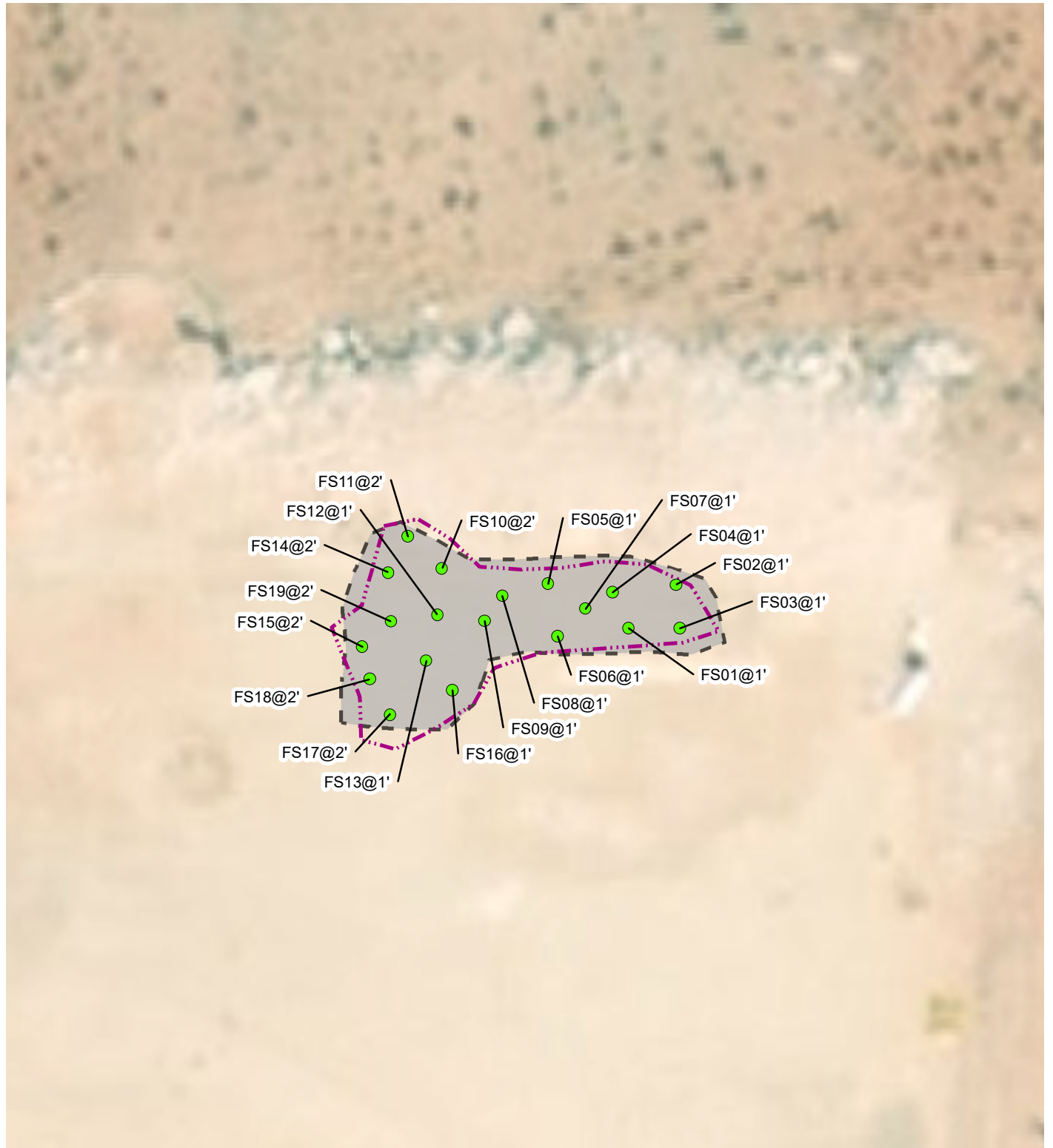


**FIGURE 2**  
**PRELIMINARY SOIL SAMPLE LOCATIONS**  
REMUDA SOUTH 25 STATE 501H  
UNIT E SEC 25 T23S R29E  
EDDY COUNTY, NEW MEXICO  
**XTO ENERGY, INC.**



NOTE: INCIDENT NUMBER NRM2030836976

P:\XTO Energy\GIS\MXD\012920155\_REMUDA SOUTH 25 STATE 501H\012920155\_FIG02\_PRELIMINARY\_2020.mxd

**LEGEND**

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NRM2030836976  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

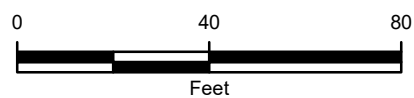


IMAGE COURTESY OF ESRI

**FIGURE 3**  
 EXCAVATION SOIL SAMPLE LOCATIONS  
 REMUDA SOUTH 25 STATE 501H  
 UNIT E SEC 25 T23S R29E  
 EDDY COUNTY, NEW MEXICO  
**XTO ENERGY, INC.**



TABLES

Table 1

**Soil Analytical Results**  
**Remuda South 25 State 501H**  
**Incident Number NRM2030836976**  
**Eddy County, New Mexico**

| Sample ID                                             | Sample Date | Sample Depth<br>(ft bgs) | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | TPH-GRO<br>(mg/kg) | TPH-DRO<br>(mg/kg) | TPH-ORO<br>(mg/kg) | Total<br>GRO+DRO<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|-------------------------------------------------------|-------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| <b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b> |             |                          | 10                 | 50              | NE                 | NE                 | NE                 | 1,000                       | 2,500          | 20,000              |
| <b>Surface Samples</b>                                |             |                          |                    |                 |                    |                    |                    |                             |                |                     |
| SS01                                                  | 11/5/2020   | 0.5                      | <0.00200           | <0.00200        | 83.5               | <50.1              | <50.1              | 83.5                        | 83.5           | 822                 |
| SS02                                                  | 11/5/2020   | 0.5                      | <0.00199           | <0.00199        | 299                | <50.0              | <50.0              | 299                         | 299            | 811                 |
| SS03                                                  | 11/5/2020   | 0.5                      | <0.00200           | <0.00200        | 80.6               | <50.0              | <50.0              | 80.6                        | 80.6           | 1,510               |
| SS04                                                  | 11/5/2020   | 0.5                      | <0.200             | 3.98            | 40,300             | 5,310              | <500               | 45,600                      | 45,600         | 2,570               |
| SS05                                                  | 11/5/2020   | 0.5                      | <0.00200           | <0.00200        | 12,200             | <249               | <249               | 12,200                      | 12,200         | 1,900               |
| SS06                                                  | 11/5/2020   | 0.5                      | <0.0996            | 1.08            | 24,100             | 272                | <250               | 24,400                      | 24,400         | 1,750               |
| <b>Excavation Floor Samples</b>                       |             |                          |                    |                 |                    |                    |                    |                             |                |                     |
| FS01                                                  | 11/18/2020  | 1                        | <0.00200           | <0.002000       | <50.2              | <50.2              | <50.2              | <50.20                      | <50.20         | 141                 |
| FS02                                                  | 11/18/2020  | 1                        | <0.00199           | <0.001990       | <49.8              | <49.8              | <49.8              | <49.80                      | <49.80         | 204                 |
| FS03                                                  | 11/18/2020  | 1                        | <0.00198           | <0.001980       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 213                 |
| FS04                                                  | 11/18/2020  | 1                        | <0.00199           | <0.001990       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 114                 |
| FS05                                                  | 11/18/2020  | 1                        | <0.00200           | <0.002000       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 217                 |
| FS06                                                  | 11/18/2020  | 1                        | <0.00202           | <0.002020       | <50.2              | <50.2              | <50.2              | <50.20                      | <50.20         | 61.3                |
| FS07                                                  | 11/19/2020  | 1                        | <0.00202           | <0.002020       | <49.9              | <49.9              | <49.9              | <49.90                      | <49.90         | 192                 |
| FS08                                                  | 11/19/2020  | 1                        | <0.00202           | <0.002020       | <49.8              | <49.8              | <49.8              | <49.80                      | <49.80         | 112                 |
| FS09                                                  | 11/19/2020  | 1                        | <0.00200           | <0.002000       | 72.1               | <50.1              | <50.1              | 72.1                        | 72.1           | 105                 |
| FS10                                                  | 11/19/2020  | 2                        | <0.00198           | <0.001980       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 282                 |
| FS11                                                  | 11/19/2020  | 2                        | <0.00200           | <0.002000       | <50.0              | <50.0              | <50.0              | <50.00                      | <50.00         | 51.2                |
| FS12                                                  | 11/19/2020  | 1                        | <0.00199           | <0.001990       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 84                  |
| FS13                                                  | 11/19/2020  | 1                        | <0.00201           | <0.002010       | <50.1              | <50.1              | <50.1              | <50.10                      | <50.10         | 136                 |
| FS14                                                  | 11/19/2020  | 2                        | <0.00201           | <0.002010       | <49.9              | <49.9              | <49.9              | <49.90                      | <49.90         | 525                 |
| FS15                                                  | 11/19/2020  | 2                        | <0.00200           | <0.002000       | <50.0              | <50.0              | <50.0              | <50.00                      | <50.00         | 85.6                |

Table 1

Soil Analytical Results  
Remuda South 25 State 501H  
Incident Number NRM2030836976  
Eddy County, New Mexico

| Sample ID                                             | Sample Date | Sample Depth<br>(ft bgs) | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | TPH-GRO<br>(mg/kg) | TPH-DRO<br>(mg/kg) | TPH-ORO<br>(mg/kg) | Total<br>GRO+DRO<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|-------------------------------------------------------|-------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| <b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b> |             |                          | 10                 | 50              | NE                 | NE                 | NE                 | <b>1,000</b>                | <b>2,500</b>   | <b>20,000</b>       |
| FS16                                                  | 11/19/2020  | 1                        | <0.00200           | <0.002000       | <50.0              | <50.0              | <50.0              | <50.00                      | <50.00         | 87.7                |
| FS17                                                  | 11/19/2020  | 2                        | <0.00202           | <0.002020       | <50.0              | <50.0              | <50.0              | <50.00                      | <50.00         | 37.3                |
| FS18                                                  | 11/19/2020  | 2                        | <0.00202           | <0.002020       | <50.3              | <50.3              | <50.3              | <50.30                      | <50.30         | 537                 |
| FS19                                                  | 11/19/2020  | 2                        | <0.00200           | <0.002000       | <50.2              | <50.2              | <50.2              | <50.20                      | <50.20         | 94.9                |

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

&lt; - 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

Text

 impacted soil was excavated

ATTACHMENT 1: LITHOLOGIC/SOIL SAMPLING LOG

|  <b>WSP USA</b><br>508 West Stevens Street<br>Carlsbad, New Mexico 88220 |                |             |          |                      |                       | BH or MW Name:                       |                  | Date:                                                                                                                                                                  |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|----------------------|-----------------------|--------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
|                                                                                                                                                           |                |             |          |                      |                       | BH01 (POD 1, C-4494)                 |                  | 11/18/2020-12/02/2020                                                                                                                                                  |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | Site Name: Remuda Frac Pond Facility |                  |                                                                                                                                                                        |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | RP or Incident Number: NAB1927332462 |                  |                                                                                                                                                                        |                                              |
| WSP Job Number: TE012919195                                                                                                                               |                |             |          |                      |                       | Logged By: BB, LD, FS                |                  | Method: Hollow Stem Auger                                                                                                                                              |                                              |
| LITHOLOGIC / SOIL SAMPLING LOG                                                                                                                            |                |             |          |                      |                       | Hole Diameter:                       |                  | Total Depth: 56.1                                                                                                                                                      |                                              |
| Lat/Long: 32.274194,-103.939575                                                                                                                           |                |             |          | Field Screening: N/A |                       | 6.25", 4.25"                         |                  | Depth to Water: DRY                                                                                                                                                    |                                              |
| Backfill or Well Construction Materials / Comments:                                                                                                       |                |             |          |                      |                       |                                      |                  |                                                                                                                                                                        |                                              |
| Lithology and descriptions only, no field screening. Borehole backfilled with drill cuttings from 56.1' to 10', hydrated bentonite from 10' to surface.   |                |             |          |                      |                       |                                      |                  |                                                                                                                                                                        |                                              |
| Moisture Content                                                                                                                                          | Chloride (ppm) | Vapor (ppm) | Staining | Sample #             | Sample Depth (ft bgs) | Depth (ft bgs)                       | USCS/Rock Symbol | Lithology/Remarks                                                                                                                                                      | Backfill / Well Completion                   |
|                                                                                                                                                           |                |             |          |                      |                       | 1                                    | SP-SC            | 0-4', SAND w/ clay, dry brown, poorly graded, fine grained, 10% clay, some roots, no stain, no odor.                                                                   | Hydrated Bentonite Chips from 10' to surface |
|                                                                                                                                                           |                |             |          |                      |                       | 10                                   | CCHE             | 4'-24', CALICHE, dry, light brown-tan, poorly consolidated, some sub-round caliche pebble and gravel, very silty, gradational transition, no stain, no odor.           |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | 20                                   |                  | 19', moderately consolidated.                                                                                                                                          |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | 30                                   | CL-S             | 24'-39', MUDSTONE, dry, reddish-brown, low plasticity, cohesive, well consolidated, trace sub-angular caliche pebbles, sharp transition, no stain, no odor.            |                                              |
|                                                                                                                                                           |                |             |          |                      |                       |                                      |                  | 34', tan-light brown sub-angular calcium carbonate gravel with dissolution features (1-3mm).                                                                           | Drill Cuttings backfilled from 56.1' to 10'  |
|                                                                                                                                                           |                |             |          |                      |                       | 40                                   | LS               | 39'-48', DOLOMITIC LIMESTONE, dry, tan-light brown, well consolidated, some dissolution features (1-3 mm), sharp transition, light reaction to HCL, no stain, no odor. |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | 50                                   | DOLO             | 48'-56.1', DOLOMITE, dry, off white, moderately consolidated, thin dark gray laminations, no stain, no odor.                                                           |                                              |
|                                                                                                                                                           |                |             |          |                      |                       | 60                                   |                  | TD @ 56.1 feet bgs.                                                                                                                                                    |                                              |



WSP USA

508 West Stevens Street  
Carlsbad, New Mexico 88220

BH or PH Name:

BH01 (cont)

Date:

1-5-2021

Site Name: Remuda N 25 State

RP or Incident Number:

WSP Job Number: TE02949260 TE012919195, TE02949039

## LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

32.274194, -103.939575

Field Screening:

N/A

Logged By: BB F.S

Method: Sonar

Hole Diameter:

6"

Total Depth:

105'

Comments:

Bore hole backfilled w/ drill cuttings from 105'-10', hydrated bentonite chips from 10' surface, lithology descriptions only, no field screening.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks                                                                                                                                                                                                                               |
|------------------|----------------|-------------|----------|----------|-----------------------|----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                |             |          |          |                       | 51             | DOL              |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 52             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 53             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 54             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 55             |                  | 1/5/2021                                                                                                                                                                                                                                        |
|                  |                |             |          |          |                       | 56             |                  | 55'-65' DOLOMITE, dry, light gray-gray, well consolidated, some calcite crystalline veins (<1mm), some dissolution features (2mm) with fine calcite crystalline trace orange oxidation staining within dissolution features, no stain, no odor. |
|                  |                |             |          |          |                       | 57             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 58             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 59             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 60             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 61             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 62             |                  | 62', brown-pale yellow coarse crystalline dolomitic limestone stringer (2cm).                                                                                                                                                                   |
|                  |                |             |          |          |                       | 63             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 64             |                  | 63'-65' Abundant calcite crystalline veins (<1mm)                                                                                                                                                                                               |
|                  |                |             |          |          |                       | 65             |                  | 65'-65' Pale green-gray, poorly consolidated.                                                                                                                                                                                                   |
|                  |                |             |          |          |                       | 66             | CH-S             | 65'-69' MUDSTONE, moist, reddish brown, poorly consolidated, high plasticity, cohesive, abundant coarse crystalline gypsum, few pale green-gray mottling, no stain, no odor.                                                                    |
|                  |                |             |          |          |                       | 67             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 68             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 69             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 70             | GYP              | 69'-81' GYPSUM w/ Anhydrite, dry, greenish gray, some pale yellow, well consolidated, fine crystalline, 20% anhydrite, no stain, no odor.                                                                                                       |
|                  |                |             |          |          |                       | 71             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 72             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 73             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 74             |                  |                                                                                                                                                                                                                                                 |
|                  |                |             |          |          |                       | 75             |                  |                                                                                                                                                                                                                                                 |

|  <b>WSP USA</b><br>508 West Stevens Street<br>Carlsbad, New Mexico 88220  |                | BH or PH Name:         | BS (cont)                           | Date:        | 1-5-2021              |                |                  |                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|-------------------------------------|--------------|-----------------------|----------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                            |                | Site Name:             | Remuda N 25 State                   |              |                       |                |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                | RP or Incident Number: |                                     |              |                       |                |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                | WSP Job Number:        | TE012914220, TE0129145, TE012914039 |              |                       |                |                  |                                                                                                                                                                 |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                      |                |                        |                                     |              |                       |                |                  |                                                                                                                                                                 |
| Lat/Long:                                                                                                                                                  |                | Field Screening:       |                                     | Logged By:   | Method:               |                |                  |                                                                                                                                                                 |
| 32.274194, -103.939575                                                                                                                                     |                | NA                     |                                     | BB, FS       | Soak                  |                |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                | Hole Diameter:         |                                     | Total Depth: |                       |                |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                | 6"                     |                                     | 105'         |                       |                |                  |                                                                                                                                                                 |
| Comments: Lithology descriptions only, no field screening. Borehole backfilled with old cuttings from 105'-10', hydrated bentonite chips from 10'-surface. |                |                        |                                     |              |                       |                |                  |                                                                                                                                                                 |
| Moisture Content                                                                                                                                           | Chloride (ppm) | Vapor (ppm)            | Staining                            | Sample #     | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks                                                                                                                                               |
|                                                                                                                                                            |                |                        |                                     |              |                       | 76             | GYP              | 81'-98' Mudstone, moist, dark reddish brown, moderately consolidated, high plasticity, cohesive, trace coarse crystalline gypsum inclusions, no stain, no odor. |
|                                                                                                                                                            |                |                        |                                     |              |                       | 77             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 78             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 79             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 80             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 81             |                  | 85'-86.5' greenish-gray well consolidated coarse crystalline gypsum / anhydrite stringer.                                                                       |
|                                                                                                                                                            |                |                        |                                     |              |                       | 82             | CH-S             |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 83             |                  | 90'-98' some fine grain brown sand.                                                                                                                             |
|                                                                                                                                                            |                |                        |                                     |              |                       | 84             |                  | 97' dark gray-gray gypsum stringer (4cm).                                                                                                                       |
|                                                                                                                                                            |                |                        |                                     |              |                       | 85             |                  | 98'-95.5' GYPSUM, dark gray-gray, some brown, dry, well consolidated, fine-coarse crystalline, no stain, no odor.                                               |
|                                                                                                                                                            |                |                        |                                     |              |                       | 86             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 87             |                  | 95.5'-105' sandy SILTSTONE, moist, brown, some gray-dark gray, poorly consolidated, 20% very fine grain sand, no stain, no odor.                                |
|                                                                                                                                                            |                |                        |                                     |              |                       | 88             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 89             |                  | 102' thin (mm) laminated gray well consolidated shale stringer.                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 90             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 91             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 92             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 93             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 94             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 95             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 96             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 97             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 98             |                  |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 99             | GYP              |                                                                                                                                                                 |
|                                                                                                                                                            |                |                        |                                     |              |                       | 100            | ML-S             |                                                                                                                                                                 |

|  <b>WSP USA</b><br>508 West Stevens Street<br>Carlsbad, New Mexico 88220      |                | BH or PH Name:              |          | Date:          |                       |                |                  |                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|----------|----------------|-----------------------|----------------|------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                                              |                | BHD1 (cont)                 |          | 1-5-2021       |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                | Site Name: Remuda N25 State |          |                |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                | RP or Incident Number:      |          |                |                       |                |                  |                                                                                                         |
| WSP Job Number: TE0129141260, TE012914145, TE012914029                                                                                                       |                |                             |          |                |                       |                |                  |                                                                                                         |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                        |                |                             |          |                |                       |                |                  |                                                                                                         |
| Lat/Long:                                                                                                                                                    |                | Field Screening:            |          | Logged By:     |                       |                |                  |                                                                                                         |
| 52.2741194, -107.939575                                                                                                                                      |                | N/A                         |          | BS, FS         |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | Hole Diameter: |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | 6"             |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | Method:        |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | Sonic          |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | Total Depth:   |                       |                |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          | 105'           |                       |                |                  |                                                                                                         |
| Comments: Lithology descriptions only, no field screening. Borehole backfilled with drill cuttings from 105'-10', hydrated bentonite chips from 10'-surface. |                |                             |          |                |                       |                |                  |                                                                                                         |
| Moisture Content                                                                                                                                             | Chloride (ppm) | Vapor (ppm)                 | Staining | Sample #       | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks                                                                                       |
|                                                                                                                                                              |                |                             |          |                |                       | 101            | ML-S             | 102', thin (1mm) laminated black/gray well consolidated shale stringer (4cm thick)<br><br>TDC 105' bgs. |
|                                                                                                                                                              |                |                             |          |                |                       | 102            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 103            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 103            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 104            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 105            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 106            | TDC 105'         |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 107            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 108            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 109            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 110            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 112            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 113            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 114            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 115            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 116            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 117            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 118            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 119            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 120            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 121            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 122            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 123            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 124            |                  |                                                                                                         |
|                                                                                                                                                              |                |                             |          |                |                       | 125            |                  |                                                                                                         |

ATTACHMENT 2: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG**

|                         |                                                               |                      |
|-------------------------|---------------------------------------------------------------|----------------------|
| <b>XTO Energy, Inc.</b> | <b>Remuda South 25 State 501H<br/>Eddy County, New Mexico</b> | <b>NRM2030836976</b> |
|-------------------------|---------------------------------------------------------------|----------------------|

| <b>Photo No.</b>                        | <b>Date</b>      |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                       | November 5, 2020 |                                                                                                                                                                                                                                                                                                                                                                    |
| View of release extent facing northwest |                  |  A wide-angle photograph of a desert landscape. The foreground is a flat, sandy area with some dark, irregular patches. In the middle ground, there is a large, light-colored, rocky mound or pile of debris. The background shows a clear blue sky and a distant horizon line. |

| <b>Photo No.</b>                         | <b>Date</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                                        | November 5, 2020 |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| View of release extent facing northeast. |                  |  A photograph of a desert landscape, similar to the first one but from a different angle. The foreground is a sandy area with some dark patches and a small, dark, circular hole. The middle ground is filled with a large, light-colored, rocky mound or pile of debris. The background shows a clear blue sky and a distant horizon line. |

**PHOTOGRAPHIC LOG**

|                         |                                                                     |                      |
|-------------------------|---------------------------------------------------------------------|----------------------|
| <b>XTO Energy, Inc.</b> | <b>Remuda South 25 State 501H</b><br><b>Eddy County, New Mexico</b> | <b>NRM2030836976</b> |
|-------------------------|---------------------------------------------------------------------|----------------------|

| <b>Photo No.</b>                                               | <b>Date</b>       |                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3                                                              | November 18, 2020 |                                                                                                                                                                                                                                                                                                                                                                                                             |
| View of western portion of final excavation, facing southwest. |                   |  A wide-angle photograph showing a large, deep excavation site. The ground is uneven and covered with loose soil and rocks. In the background, there are several tall, thin structures, possibly oil rigs or drilling equipment, under a clear blue sky. A small blue vehicle is visible on the right side of the image. |

| <b>Photo No.</b>                                                  | <b>Date</b>       |                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4                                                                 | November 18, 2020 |                                                                                                                                                                                                                                                                                                                              |
| View of eastern portion of final excavation extent, facing south. |                   |  A photograph showing two workers in hard hats and safety gear standing on a dirt mound in the foreground. The background shows a large, flat excavation area with some equipment and structures in the distance under a clear blue sky. |

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS



# Certificate of Analysis Summary 676998

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 25 State 501 H

Project Id: 012920155

Contact: Dan Moir

Project Location:

Date Received in Lab: Thu 11.05.2020 12:50

Report Date: 11.06.2020 16:21

Project Manager: Jessica Kramer

| Analysis Requested                 | Lab Id:    | 676998-001       | 676998-002       | 676998-003       | 676998-004       | 676998-005       | 676998-006       |
|------------------------------------|------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | Field Id:  | SS01             | SS02             | SS03             | SS04             | SS05             | SS06             |
|                                    | Depth:     | 0.5- ft          | 0.5- ft          | 0.5- ft          | 0.5- ft          | 0.5- ft          | 0.5- ft          |
|                                    | Matrix:    | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             | SOIL             |
|                                    | Sampled:   | 11.05.2020 10:31 | 11.05.2020 10:38 | 11.05.2020 10:40 | 11.05.2020 10:43 | 11.05.2020 10:45 | 11.05.2020 10:48 |
| BTEX by EPA 8021B                  | Extracted: | 11.05.2020 15:56 | 11.05.2020 15:56 | 11.05.2020 15:56 | 11.05.2020 15:56 | 11.05.2020 15:56 | 11.05.2020 15:56 |
|                                    | Analyzed:  | 11.06.2020 01:37 | 11.06.2020 02:32 | 11.06.2020 03:28 | 11.06.2020 05:18 | 11.06.2020 04:23 | 11.06.2020 09:29 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Benzene                            |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.200 0.200     | <0.00200 0.00200 | <0.0996 0.0996   |
| Toluene                            |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | 0.295 0.200      | <0.00200 0.00200 | <0.0996 0.0996   |
| Ethylbenzene                       |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | 0.614 0.200      | <0.00200 0.00200 | 0.165 0.0996     |
| m,p-Xylenes                        |            | <0.00399 0.00399 | <0.00398 0.00398 | <0.00399 0.00399 | 1.93 0.399       | <0.00401 0.00401 | 0.490 0.199      |
| o-Xylene                           |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | 1.14 0.200       | <0.00200 0.00200 | 0.422 0.0996     |
| Total Xylenes                      |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | 3.07 0.200       | <0.00200 0.00200 | 0.912 0.0996     |
| Total BTEX                         |            | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | 3.98 0.200       | <0.00200 0.00200 | 1.08 0.0996      |
| Chloride by EPA 300                | Extracted: | 11.05.2020 16:21 | 11.05.2020 16:21 | 11.05.2020 16:21 | 11.05.2020 16:21 | 11.05.2020 16:21 | 11.05.2020 16:21 |
|                                    | Analyzed:  | 11.05.2020 21:07 | 11.05.2020 21:12 | 11.05.2020 21:29 | 11.05.2020 21:34 | 11.05.2020 21:40 | 11.05.2020 21:45 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Chloride                           |            | 822 49.9         | 811 49.9         | 1510 49.9        | 2570 49.6        | 1900 49.8        | 1750 49.9        |
| TPH by SW8015 Mod                  | Extracted: | 11.05.2020 14:04 | 11.05.2020 14:04 | 11.05.2020 14:07 | 11.05.2020 14:07 | 11.05.2020 14:07 | 11.05.2020 14:07 |
|                                    | Analyzed:  | 11.05.2020 23:27 | 11.05.2020 23:47 | 11.05.2020 23:27 | 11.06.2020 00:07 | 11.05.2020 23:47 | 11.06.2020 00:28 |
|                                    | Units/RL:  | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         | mg/kg RL         |
| Gasoline Range Hydrocarbons (GRO)  |            | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | 5310 500         | <249 249         | 272 250          |
| Diesel Range Organics (DRO)        |            | 83.5 50.1        | 299 50.0         | 80.6 50.0        | 40300 500        | 12200 249        | 24100 250        |
| Motor Oil Range Hydrocarbons (MRO) |            | <50.1 50.1       | <50.0 50.0       | <50.0 50.0       | <500 500         | <249 249         | <250 250         |
| Total GRO-DRO                      |            | 83.5 50.1        | 299 50.0         | 80.6 50.0        | 45600 500        | 12200 249        | 24400 250        |
| Total TPH                          |            | 83.5 50.1        | 299 50.0         | 80.6 50.0        | 45600 500        | 12200 249        | 24400 250        |

BRL - Below Reporting Limit

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

*Jessica Kramer*



# Analytical Report 676998

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**Remuda 25 State 501 H**

**012920155**

**11.06.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.06.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **676998**

**Remuda 25 State 501 H**

Project Address:

**Dan Moir:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676998. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676998 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

---

**Jessica Kramer**

Project Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 676998****LT Environmental, Inc., Arvada, CO**

Remuda 25 State 501 H

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| SS01      | S      | 11.05.2020 10:31 | 0.5 ft       | 676998-001    |
| SS02      | S      | 11.05.2020 10:38 | 0.5 ft       | 676998-002    |
| SS03      | S      | 11.05.2020 10:40 | 0.5 ft       | 676998-003    |
| SS04      | S      | 11.05.2020 10:43 | 0.5 ft       | 676998-004    |
| SS05      | S      | 11.05.2020 10:45 | 0.5 ft       | 676998-005    |
| SS06      | S      | 11.05.2020 10:48 | 0.5 ft       | 676998-006    |



## CASE NARRATIVE

**Client Name: LT Environmental, Inc.**

**Project Name: Remuda 25 State 501 H**

Project ID: 012920155  
Work Order Number(s): 676998

Report Date: 11.06.2020  
Date Received: 11.05.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS01** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-001 Date Collected: 11.05.2020 10:31 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 822    | 49.9 | mg/kg | 11.05.2020 21:07 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:04 % Moisture:  
 Seq Number: 3141525 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1 | mg/kg | 11.05.2020 23:27 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | 83.5   | 50.1 | mg/kg | 11.05.2020 23:27 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1 | mg/kg | 11.05.2020 23:27 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | 83.5   | 50.1 | mg/kg | 11.05.2020 23:27 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | 83.5   | 50.1 | mg/kg | 11.05.2020 23:27 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 11.05.2020 23:27 |      |
| o-Terphenyl    | 84-15-1    | 108        | %     | 70-135 | 11.05.2020 23:27 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS01**  
Lab Sample Id: 676998-001

Matrix: Soil  
Date Collected: 11.05.2020 10:31

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 01:37     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 103               | %            | 70-130        | 11.06.2020 01:37     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 100               | %            | 70-130        | 11.06.2020 01:37     |             |     |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS02** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-002 Date Collected: 11.05.2020 10:38 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 811    | 49.9 | mg/kg | 11.05.2020 21:12 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:04 % Moisture:  
 Seq Number: 3141525 Basis: Wet Weight

| Parameter                          | Cas Number | Result     | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0      | 50.0 | mg/kg | 11.05.2020 23:47 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>299</b> | 50.0 | mg/kg | 11.05.2020 23:47 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0      | 50.0 | mg/kg | 11.05.2020 23:47 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>299</b> | 50.0 | mg/kg | 11.05.2020 23:47 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>299</b> | 50.0 | mg/kg | 11.05.2020 23:47 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 109        | %     | 70-135 | 11.05.2020 23:47 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 11.05.2020 23:47 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS02**  
Lab Sample Id: 676998-002

Matrix: Soil  
Date Collected: 11.05.2020 10:38

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| Total BTEX           |                   | <0.00199          | 0.00199      | mg/kg         | 11.06.2020 02:32     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 105               | %            | 70-130        | 11.06.2020 02:32     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 99                | %            | 70-130        | 11.06.2020 02:32     |             |     |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS03** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-003 Date Collected: 11.05.2020 10:40 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1510   | 49.9 | mg/kg | 11.05.2020 21:29 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:  
 Seq Number: 3141527 Basis: Wet Weight

| Parameter                          | Cas Number | Result      | RL   | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|-------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0       | 50.0 | mg/kg | 11.05.2020 23:27 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>80.6</b> | 50.0 | mg/kg | 11.05.2020 23:27 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0       | 50.0 | mg/kg | 11.05.2020 23:27 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>80.6</b> | 50.0 | mg/kg | 11.05.2020 23:27 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>80.6</b> | 50.0 | mg/kg | 11.05.2020 23:27 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-135 | 11.05.2020 23:27 |      |
| o-Terphenyl    | 84-15-1    | 123        | %     | 70-135 | 11.05.2020 23:27 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS03**  
Lab Sample Id: 676998-003

Matrix: Soil  
Date Collected: 11.05.2020 10:40

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter     | Cas Number  | Result   | RL      | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |
| Total BTEX    |             | <0.00200 | 0.00200 | mg/kg | 11.06.2020 03:28 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 11.06.2020 03:28 |      |
| 4-Bromofluorobenzene | 460-00-4   | 104        | %     | 70-130 | 11.06.2020 03:28 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS04** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-004 Date Collected: 11.05.2020 10:43 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 2570   | 49.6 | mg/kg | 11.05.2020 21:34 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:  
 Seq Number: 3141527 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 5310   | 500 | mg/kg | 11.06.2020 00:07 |      | 10  |
| Diesel Range Organics (DRO)        | C10C28DRO  | 40300  | 500 | mg/kg | 11.06.2020 00:07 |      | 10  |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <500   | 500 | mg/kg | 11.06.2020 00:07 | U    | 10  |
| Total GRO-DRO                      | PHC628     | 45600  | 500 | mg/kg | 11.06.2020 00:07 |      | 10  |
| Total TPH                          | PHC635     | 45600  | 500 | mg/kg | 11.06.2020 00:07 |      | 10  |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 112        | %     | 70-135 | 11.06.2020 00:07 |      |
| o-Terphenyl    | 84-15-1    | 102        | %     | 70-135 | 11.06.2020 00:07 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS04**  
Lab Sample Id: 676998-004

Matrix: Soil  
Date Collected: 11.05.2020 10:43

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.200            | 0.200        | mg/kg         | 11.06.2020 05:18     | U           | 100 |
| Toluene              | 108-88-3          | <b>0.295</b>      | 0.200        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| Ethylbenzene         | 100-41-4          | <b>0.614</b>      | 0.200        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| m,p-Xylenes          | 179601-23-1       | <b>1.93</b>       | 0.399        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| o-Xylene             | 95-47-6           | <b>1.14</b>       | 0.200        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| Total Xylenes        | 1330-20-7         | <b>3.07</b>       | 0.200        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| Total BTEX           |                   | <b>3.98</b>       | 0.200        | mg/kg         | 11.06.2020 05:18     |             | 100 |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 109               | %            | 70-130        | 11.06.2020 05:18     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 89                | %            | 70-130        | 11.06.2020 05:18     |             |     |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS05** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-005 Date Collected: 11.05.2020 10:45 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1900   | 49.8 | mg/kg | 11.05.2020 21:40 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:  
 Seq Number: 3141527 Basis: Wet Weight

| Parameter                          | Cas Number | Result       | RL  | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------------|-----|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <249         | 249 | mg/kg | 11.05.2020 23:47 | U    | 5   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>12200</b> | 249 | mg/kg | 11.05.2020 23:47 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <249         | 249 | mg/kg | 11.05.2020 23:47 | U    | 5   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>12200</b> | 249 | mg/kg | 11.05.2020 23:47 |      | 5   |
| <b>Total TPH</b>                   | PHC635     | <b>12200</b> | 249 | mg/kg | 11.05.2020 23:47 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 122        | %     | 70-135 | 11.05.2020 23:47 |      |
| o-Terphenyl    | 84-15-1    | 123        | %     | 70-135 | 11.05.2020 23:47 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS05**  
Lab Sample Id: 676998-005

Matrix: Soil  
Date Collected: 11.05.2020 10:45

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| Total BTEX           |                   | <0.00200          | 0.00200      | mg/kg         | 11.06.2020 04:23     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 98                | %            | 70-130        | 11.06.2020 04:23     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 97                | %            | 70-130        | 11.06.2020 04:23     |             |     |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS06** Matrix: Soil Date Received: 11.05.2020 12:50  
 Lab Sample Id: 676998-006 Date Collected: 11.05.2020 10:48 Sample Depth: 0.5 ft  
 Analytical Method: Chloride by EPA 300 Prep Method: E300P  
 Tech: MAB  
 Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:  
 Seq Number: 3141523 Basis: Wet Weight

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 1750   | 49.9 | mg/kg | 11.05.2020 21:45 |      | 5   |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P  
 Tech: MAB  
 Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:  
 Seq Number: 3141527 Basis: Wet Weight

| Parameter                          | Cas Number | Result | RL  | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | 272    | 250 | mg/kg | 11.06.2020 00:28 |      | 5   |
| Diesel Range Organics (DRO)        | C10C28DRO  | 24100  | 250 | mg/kg | 11.06.2020 00:28 |      | 5   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <250   | 250 | mg/kg | 11.06.2020 00:28 | U    | 5   |
| Total GRO-DRO                      | PHC628     | 24400  | 250 | mg/kg | 11.06.2020 00:28 |      | 5   |
| Total TPH                          | PHC635     | 24400  | 250 | mg/kg | 11.06.2020 00:28 |      | 5   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 134        | %     | 70-135 | 11.06.2020 00:28 |      |
| o-Terphenyl    | 84-15-1    | 112        | %     | 70-135 | 11.06.2020 00:28 |      |



# Certificate of Analytical Results 676998

## LT Environmental, Inc., Arvada, CO

Remuda 25 State 501 H

Sample Id: **SS06**  
Lab Sample Id: 676998-006

Matrix: Soil  
Date Collected: 11.05.2020 10:48

Date Received: 11.05.2020 12:50  
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.05.2020 15:56

% Moisture:  
Basis: Wet Weight

Seq Number: 3141526

| Parameter     | Cas Number  | Result       | RL     | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|--------------|--------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.0996      | 0.0996 | mg/kg | 11.06.2020 09:29 | U    | 50  |
| Toluene       | 108-88-3    | <0.0996      | 0.0996 | mg/kg | 11.06.2020 09:29 | U    | 50  |
| Ethylbenzene  | 100-41-4    | <b>0.165</b> | 0.0996 | mg/kg | 11.06.2020 09:29 |      | 50  |
| m,p-Xylenes   | 179601-23-1 | <b>0.490</b> | 0.199  | mg/kg | 11.06.2020 09:29 |      | 50  |
| o-Xylene      | 95-47-6     | <b>0.422</b> | 0.0996 | mg/kg | 11.06.2020 09:29 |      | 50  |
| Total Xylenes | 1330-20-7   | <b>0.912</b> | 0.0996 | mg/kg | 11.06.2020 09:29 |      | 50  |
| Total BTEX    |             | <b>1.08</b>  | 0.0996 | mg/kg | 11.06.2020 09:29 |      | 50  |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 89         | %     | 70-130 | 11.06.2020 09:29 |      |
| 4-Bromofluorobenzene | 460-00-4   | 117        | %     | 70-130 | 11.06.2020 09:29 |      |

## Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.      **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



## LT Environmental, Inc.

Remuda 25 State 501 H

## Analytical Method: Chloride by EPA 300

Seq Number: 3141523

MB Sample Id: 7714636-1-BLK

Matrix: Solid

LCS Sample Id: 7714636-1-BKS

Prep Method: E300P

Date Prep: 11.05.2020

LCSD Sample Id: 7714636-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 253        | 101      | 247         | 99        | 90-110 | 2    | 20        | mg/kg | 11.05.2020 19:17 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3141523

Parent Sample Id: 676996-005

Matrix: Soil

MS Sample Id: 676996-005 S

Prep Method: E300P

Date Prep: 11.05.2020

MSD Sample Id: 676996-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 154           | 198          | 348       | 98      | 346        | 96       | 90-110 | 1    | 20        | mg/kg | 11.05.2020 19:34 |      |

## Analytical Method: Chloride by EPA 300

Seq Number: 3141523

Parent Sample Id: 676996-015

Matrix: Soil

MS Sample Id: 676996-015 S

Prep Method: E300P

Date Prep: 11.05.2020

MSD Sample Id: 676996-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 188           | 200          | 398       | 105     | 396        | 104      | 90-110 | 1    | 20        | mg/kg | 11.05.2020 20:50 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141525

MB Sample Id: 7714605-1-BLK

Matrix: Solid

LCS Sample Id: 7714605-1-BKS

Prep Method: SW8015P

Date Prep: 11.05.2020

LCSD Sample Id: 7714605-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 963        | 96       | 958         | 96        | 70-135 | 1    | 35        | mg/kg | 11.05.2020 15:53 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1070       | 107      | 1070        | 107       | 70-135 | 0    | 35        | mg/kg | 11.05.2020 15:53 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 100     |         | 131      |          | 134       |           | 70-135 | %     | 11.05.2020 15:53 |
| o-Terphenyl    | 101     |         | 104      |          | 106       |           | 70-135 | %     | 11.05.2020 15:53 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141527

MB Sample Id: 7714606-1-BLK

Matrix: Solid

LCS Sample Id: 7714606-1-BKS

Prep Method: SW8015P

Date Prep: 11.05.2020

LCSD Sample Id: 7714606-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 1110       | 111      | 1190        | 119       | 70-135 | 7    | 35        | mg/kg | 11.05.2020 15:53 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1280       | 128      | 1180        | 118       | 70-135 | 8    | 35        | mg/kg | 11.05.2020 15:53 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 117     |         | 131      |          | 125       |           | 70-135 | %     | 11.05.2020 15:53 |
| o-Terphenyl    | 125     |         | 108      |          | 100       |           | 70-135 | %     | 11.05.2020 15:53 |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

## LT Environmental, Inc.

Remuda 25 State 501 H

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141525

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.05.2020

MB Sample Id: 7714605-1-BLK

## Parameter

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 11.05.2020 15:33 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141527

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.05.2020

MB Sample Id: 7714606-1-BLK

## Parameter

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 11.05.2020 15:33 |      |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141525

Matrix: Soil

Prep Method: SW8015P

Date Prep: 11.05.2020

Parent Sample Id: 676974-001

MS Sample Id: 676974-001 S

MSD Sample Id: 676974-001 SD

## Parameter

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0         | 1000         | 892       | 89      | 922        | 92       | 70-135 | 3    | 35        | mg/kg | 11.05.2020 17:25 |      |
| Diesel Range Organics (DRO)       | <50.0         | 1000         | 1020      | 102     | 1050       | 105      | 70-135 | 3    | 35        | mg/kg | 11.05.2020 17:25 |      |

## Surrogate

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 129     |         | 133      |          | 70-135 | %     | 11.05.2020 17:25 |
| o-Terphenyl    | 122     |         | 123      |          | 70-135 | %     | 11.05.2020 17:25 |

## Analytical Method: TPH by SW8015 Mod

Seq Number: 3141527

Matrix: Soil

Prep Method: SW8015P

Date Prep: 11.05.2020

Parent Sample Id: 676996-001

MS Sample Id: 676996-001 S

MSD Sample Id: 676996-001 SD

## Parameter

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.8         | 996          | 1050      | 105     | 1020       | 102      | 70-135 | 3    | 35        | mg/kg | 11.05.2020 17:25 |      |
| Diesel Range Organics (DRO)       | <49.8         | 996          | 1230      | 123     | 1230       | 123      | 70-135 | 0    | 35        | mg/kg | 11.05.2020 17:25 |      |

## Surrogate

| Surrogate      | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 117     |         | 120      |          | 70-135 | %     | 11.05.2020 17:25 |
| o-Terphenyl    | 108     |         | 117      |          | 70-135 | %     | 11.05.2020 17:25 |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



**LT Environmental, Inc.**  
Remuda 25 State 501 H

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3141526

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.05.2020

MB Sample Id: 7714603-1-BLK

LCS Sample Id: 7714603-1-BKS

LCSD Sample Id: 7714603-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.0941     | 94       | 0.0959      | 96        | 70-130 | 2    | 35        | mg/kg | 11.05.2020 17:15 |      |
| Toluene      | <0.00200  | 0.100        | 0.0738     | 74       | 0.0753      | 75        | 70-130 | 2    | 35        | mg/kg | 11.05.2020 17:15 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0923     | 92       | 0.0941      | 94        | 71-129 | 2    | 35        | mg/kg | 11.05.2020 17:15 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.187      | 94       | 0.191       | 96        | 70-135 | 2    | 35        | mg/kg | 11.05.2020 17:15 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0923     | 92       | 0.0950      | 95        | 71-133 | 3    | 35        | mg/kg | 11.05.2020 17:15 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 102     |         | 99       |          | 99        |           | 70-130 | %     | 11.05.2020 17:15 |
| 4-Bromofluorobenzene | 100     |         | 98       |          | 101       |           | 70-130 | %     | 11.05.2020 17:15 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3141526

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.05.2020

Parent Sample Id: 676996-005

MS Sample Id: 676996-005 S

MSD Sample Id: 676996-005 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00198      | 0.0992       | 0.0978    | 99      | 0.0865     | 87       | 70-130 | 12   | 35        | mg/kg | 11.05.2020 18:00 |      |
| Toluene      | <0.00198      | 0.0992       | 0.0770    | 78      | 0.0698     | 70       | 70-130 | 10   | 35        | mg/kg | 11.05.2020 18:00 |      |
| Ethylbenzene | <0.00198      | 0.0992       | 0.0953    | 96      | 0.0859     | 86       | 71-129 | 10   | 35        | mg/kg | 11.05.2020 18:00 |      |
| m,p-Xylenes  | <0.00397      | 0.198        | 0.192     | 97      | 0.173      | 87       | 70-135 | 10   | 35        | mg/kg | 11.05.2020 18:00 |      |
| o-Xylene     | <0.00198      | 0.0992       | 0.0960    | 97      | 0.0855     | 86       | 71-133 | 12   | 35        | mg/kg | 11.05.2020 18:00 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 96       |          | 70-130 | %     | 11.05.2020 18:00 |
| 4-Bromofluorobenzene | 100     |         | 100      |          | 70-130 | %     | 11.05.2020 18:00 |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

## Chain of Custody

Work Order No: 10719998

|                 |                       |  |  |  |  |             |                                     |  |  |  |  |  |  |  |  |  |                  |  |
|-----------------|-----------------------|--|--|--|--|-------------|-------------------------------------|--|--|--|--|--|--|--|--|--|------------------|--|
| Project Name:   | Remuda 23 State 50114 |  |  |  |  | Turn Around |                                     |  |  |  |  |  |  |  |  |  | Work Order Notes |  |
| Project Number: | 01292015              |  |  |  |  | Routine     | <input checked="" type="checkbox"/> |  |  |  |  |  |  |  |  |  |                  |  |
| P.O. Number:    |                       |  |  |  |  | Rush:       |                                     |  |  |  |  |  |  |  |  |  |                  |  |
| Sampler's Name: | Travis Casey          |  |  |  |  | Due Date:   |                                     |  |  |  |  |  |  |  |  |  |                  |  |

| SAMPLE RECEIPT        |         | Temp Blank:    | Yes                | No | Wet Ice: | Yes | No |
|-----------------------|---------|----------------|--------------------|----|----------|-----|----|
| Temperature (°C):     | 1.0/0.8 | Thermometer ID |                    |    |          |     |    |
| Received Intact:      | Yes     | No             | TMM007             |    |          |     |    |
| Cooler Custody Seals: | Yes     | No             | Correction Factor: |    | -0.2     |     |    |
| Sample Custody Seals: | Yes     | No             | Total Containers:  |    | 6        |     |    |

Number of Containers

PA 8015)

EPA 8021)

e (EPA 300.0)

TAT starts the day received by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number | TPH (E) | BTEX (E) | Chloride | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|--------|---------|----------|----------|-----------------|
| SS01                  | 5      | 11-05-20     | 10:51        | 0.5'  | 1      | ✓       | ✓        | ✓        | Discrete        |
| SS02                  |        |              | 10:58        |       | 1      | ✓       | ✓        | ✓        |                 |
| SS03                  |        |              | 10:40        |       | 1      | ✓       | ✓        | ✓        |                 |
| SS04                  |        |              | 10:43        |       | 1      | ✓       | ✓        | ✓        |                 |
| SS05                  |        |              | 10:45        |       | 1      | ✓       | ✓        | ✓        |                 |
| SS06                  |        |              | 10:48        |       | 1      | ✓       | ✓        | ✓        |                 |

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Date/Time

|               |   |  |  |  |
|---------------|---|--|--|--|
| 11/5/20 18:50 | 2 |  |  |  |
|               | 4 |  |  |  |
|               | 6 |  |  |  |

Revised Date 051418 Rev. 2018.

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.05.2020 12.50.00 PM

Work Order #: 676998

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T\_NM\_007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | .8       |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 11.05.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.06.2020



# Certificate of Analysis Summary 678616

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South State 25 501H

Project Id: 012920155

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 11.20.2020 08:52

Report Date: 11.25.2020 07:22

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 678616-001         | 678616-002         | 678616-003         | 678616-004         | 678616-005         | 678616-006         |
|------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                    | <i>Field Id:</i>  | FS01               | FS02               | FS03               | FS04               | FS05               | FS06               |
|                                    | <i>Depth:</i>     | 1- ft              | 1- ft              | 1- ft              | 1- ft              | 1- ft              | 1- ft              |
|                                    | <i>Matrix:</i>    | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               |
|                                    | <i>Sampled:</i>   | 11.18.2020 14:36   | 11.18.2020 14:38   | 11.18.2020 15:23   | 11.18.2020 15:24   | 11.18.2020 15:25   | 11.18.2020 15:26   |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   |
|                                    | <i>Analyzed:</i>  | 11.21.2020 06:23   | 11.21.2020 06:45   | 11.21.2020 07:07   | 11.21.2020 07:30   | 11.21.2020 08:49   | 11.21.2020 09:12   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Benzene                            |                   | <0.00200 0.00200   | <0.00199 0.00199   | <0.00198 0.00198   | <0.00199 0.00199   | <0.00200 0.00200   | <0.00202 0.00202   |
| Toluene                            |                   | <0.00200 0.00200   | <0.00199 0.00199   | <0.00198 0.00198   | <0.00199 0.00199   | <0.00200 0.00200   | <0.00202 0.00202   |
| Ethylbenzene                       |                   | <0.00200 0.00200   | <0.00199 0.00199   | <0.00198 0.00198   | <0.00199 0.00199   | <0.00200 0.00200   | <0.00202 0.00202   |
| m,p-Xylenes                        |                   | <0.00399 0.00399   | <0.00398 0.00398   | <0.00397 0.00397   | <0.00398 0.00398   | <0.00399 0.00399   | <0.00403 0.00403   |
| o-Xylene                           |                   | <0.00200 0.00200   | <0.00199 0.00199   | <0.00198 0.00198   | <0.00199 0.00199   | <0.00200 0.00200   | <0.00202 0.00202   |
| Total Xylenes                      |                   | <0.002000 0.002000 | <0.001990 0.001990 | <0.001980 0.001980 | <0.001990 0.001990 | <0.002000 0.002000 | <0.002020 0.002020 |
| Total BTEX                         |                   | <0.002000 0.002000 | <0.001990 0.001990 | <0.001980 0.001980 | <0.001990 0.001990 | <0.002000 0.002000 | <0.002020 0.002020 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   |
|                                    | <i>Analyzed:</i>  | 11.23.2020 13:46   | 11.23.2020 13:51   | 11.23.2020 13:56   | 11.23.2020 14:01   | 11.23.2020 14:07   | 11.23.2020 14:22   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Chloride                           |                   | 141 50.1           | 204 49.9           | 213 49.8           | 114 50.1           | 217 49.7           | 61.3 49.8          |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 11.21.2020 16:00   | 11.21.2020 16:00   | 11.21.2020 16:00   | 11.21.2020 16:00   | 11.21.2020 16:00   | 11.21.2020 16:00   |
|                                    | <i>Analyzed:</i>  | 11.21.2020 22:21   | 11.21.2020 22:41   | 11.21.2020 23:01   | 11.21.2020 23:21   | 11.22.2020 00:01   | 11.22.2020 00:22   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.2 50.2         | <49.8 49.8         | <50.1 50.1         | <50.1 50.1         | <50.1 50.1         | <50.2 50.2         |
| Diesel Range Organics (DRO)        |                   | <50.2 50.2         | <49.8 49.8         | <50.1 50.1         | <50.1 50.1         | <50.1 50.1         | <50.2 50.2         |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.2 50.2         | <49.8 49.8         | <50.1 50.1         | <50.1 50.1         | <50.1 50.1         | <50.2 50.2         |
| Total GRO-DRO                      |                   | <50.20 50.20       | <49.80 49.80       | <50.10 50.10       | <50.10 50.10       | <50.10 50.10       | <50.20 50.20       |
| Total TPH                          |                   | <50.20 50.20       | <49.80 49.80       | <50.10 50.10       | <50.10 50.10       | <50.10 50.10       | <50.20 50.20       |

BRL - Below Reporting Limit

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

*Jessica Kramer*

## Certificate of Analysis Summary 678616

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South State 25 501H

Project Id: 012920155

Date Received in Lab: Fri 11.20.2020 08:52

Contact: Dan Moir

Report Date: 11.25.2020 07:22

Project Location:

Project Manager: Jessica Kramer

| Analysis Requested                 | Lab Id:    | 678616-007         | 678616-008         | 678616-009         | 678616-010         | 678616-011         | 678616-012         |
|------------------------------------|------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                    | Field Id:  | FS07               | FS08               | FS09               | FS10               | FS11               | FS12               |
|                                    | Depth:     | 1- ft              | 1- ft              | 1- ft              | 2- ft              | 2- ft              | 1- ft              |
|                                    | Matrix:    | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               |
|                                    | Sampled:   | 11.19.2020 09:45   | 11.19.2020 09:50   | 11.19.2020 11:19   | 11.19.2020 15:25   | 11.19.2020 15:26   | 11.19.2020 11:41   |
| BTEX by EPA 8021B                  | Extracted: | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.20.2020 18:08   |
|                                    | Analyzed:  | 11.21.2020 09:34   | 11.21.2020 09:57   | 11.21.2020 10:19   | 11.21.2020 10:41   | 11.21.2020 11:04   | 11.21.2020 11:26   |
|                                    | Units/RL:  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Benzene                            |            | <0.00202 0.00202   | <0.00202 0.00202   | <0.00200 0.00200   | <0.00198 0.00198   | <0.00200 0.00200   | <0.00199 0.00199   |
| Toluene                            |            | <0.00202 0.00202   | <0.00202 0.00202   | <0.00200 0.00200   | <0.00198 0.00198   | <0.00200 0.00200   | <0.00199 0.00199   |
| Ethylbenzene                       |            | <0.00202 0.00202   | <0.00202 0.00202   | <0.00200 0.00200   | <0.00198 0.00198   | <0.00200 0.00200   | <0.00199 0.00199   |
| m,p-Xylenes                        |            | <0.00404 0.00404   | <0.00404 0.00404   | <0.00401 0.00401   | <0.00397 0.00397   | <0.00399 0.00399   | <0.00398 0.00398   |
| o-Xylene                           |            | <0.00202 0.00202   | <0.00202 0.00202   | <0.00200 0.00200   | <0.00198 0.00198   | <0.00200 0.00200   | <0.00199 0.00199   |
| Total Xylenes                      |            | <0.002020 0.002020 | <0.002020 0.002020 | <0.002000 0.002000 | <0.001980 0.001980 | <0.002000 0.002000 | <0.001990 0.001990 |
| Total BTEX                         |            | <0.002020 0.002020 | <0.002020 0.002020 | <0.002000 0.002000 | <0.001980 0.001980 | <0.002000 0.002000 | <0.001990 0.001990 |
| Chloride by EPA 300                | Extracted: | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:57   |
|                                    | Analyzed:  | 11.23.2020 14:28   | 11.23.2020 14:43   | 11.23.2020 14:48   | 11.23.2020 14:53   | 11.23.2020 14:59   | 11.23.2020 15:04   |
|                                    | Units/RL:  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Chloride                           |            | 192 49.8           | 112 50.4           | 105 50.5           | 282 50.4           | 51.2 9.96          | 84.0 10.0          |
| TPH by SW8015 Mod                  | Extracted: | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   |
|                                    | Analyzed:  | 11.21.2020 01:12   | 11.21.2020 01:32   | 11.21.2020 02:13   | 11.21.2020 02:33   | 11.21.2020 02:53   | 11.21.2020 03:13   |
|                                    | Units/RL:  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Gasoline Range Hydrocarbons (GRO)  |            | <49.9 49.9         | <49.8 49.8         | <50.1 50.1         | <50.1 50.1         | <50.0 50.0         | <50.1 50.1         |
| Diesel Range Organics (DRO)        |            | <49.9 49.9         | <49.8 49.8         | 72.1 50.1          | <50.1 50.1         | <50.0 50.0         | <50.1 50.1         |
| Motor Oil Range Hydrocarbons (MRO) |            | <49.9 49.9         | <49.8 49.8         | <50.1 50.1         | <50.1 50.1         | <50.0 50.0         | <50.1 50.1         |
| Total GRO-DRO                      |            | <49.90 49.90       | <49.80 49.80       | 72.10 50.10        | <50.10 50.10       | <50.00 50.00       | <50.10 50.10       |
| Total TPH                          |            | <49.90 49.90       | <49.80 49.80       | 72.10 50.10        | <50.10 50.10       | <50.00 50.00       | <50.10 50.10       |

BRL - Below Reporting Limit

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



## Certificate of Analysis Summary 678616

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South State 25 501H

Project Id: 012920155

Date Received in Lab: Fri 11.20.2020 08:52

Contact: Dan Moir

Report Date: 11.25.2020 07:22

Project Location:

Project Manager: Jessica Kramer

| <i>Analysis Requested</i>          | <i>Lab Id:</i>    | 678616-013         | 678616-014         | 678616-015         | 678616-016         | 678616-017         | 678616-018         |
|------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                    | <i>Field Id:</i>  | FS13               | FS14               | FS15               | FS16               | FS17               | FS18               |
|                                    | <i>Depth:</i>     | 1- ft              | 2- ft              | 2- ft              | 1- ft              | 2- ft              | 2- ft              |
|                                    | <i>Matrix:</i>    | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               | SOIL               |
|                                    | <i>Sampled:</i>   | 11.19.2020 12:10   | 11.19.2020 15:27   | 11.19.2020 15:42   | 11.19.2020 13:41   | 11.19.2020 14:25   | 11.19.2020 16:31   |
| <b>BTEX by EPA 8021B</b>           | <i>Extracted:</i> | 11.20.2020 18:08   | 11.20.2020 18:08   | 11.21.2020 17:01   | 11.21.2020 17:01   | 11.21.2020 17:01   | 11.21.2020 17:01   |
|                                    | <i>Analyzed:</i>  | 11.21.2020 11:49   | 11.21.2020 12:11   | 11.21.2020 20:56   | 11.21.2020 21:18   | 11.21.2020 21:41   | 11.21.2020 22:03   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Benzene                            |                   | <0.00201 0.00201   | <0.00201 0.00201   | <0.00200 0.00200   | <0.00200 0.00200   | <0.00202 0.00202   | <0.00202 0.00202   |
| Toluene                            |                   | <0.00201 0.00201   | <0.00201 0.00201   | <0.00200 0.00200   | <0.00200 0.00200   | <0.00202 0.00202   | <0.00202 0.00202   |
| Ethylbenzene                       |                   | <0.00201 0.00201   | <0.00201 0.00201   | <0.00200 0.00200   | <0.00200 0.00200   | <0.00202 0.00202   | <0.00202 0.00202   |
| m,p-Xylenes                        |                   | <0.00402 0.00402   | <0.00402 0.00402   | <0.00399 0.00399   | <0.00399 0.00399   | <0.00403 0.00403   | <0.00403 0.00403   |
| o-Xylene                           |                   | <0.00201 0.00201   | <0.00201 0.00201   | <0.00200 0.00200   | <0.00200 0.00200   | <0.00202 0.00202   | <0.00202 0.00202   |
| Total Xylenes                      |                   | <0.002010 0.002010 | <0.002010 0.002010 | <0.002000 0.002000 | <0.002000 0.002000 | <0.002020 0.002020 | <0.002020 0.002020 |
| Total BTEX                         |                   | <0.002010 0.002010 | <0.002010 0.002010 | <0.002000 0.002000 | <0.002000 0.002000 | <0.002020 0.002020 | <0.002020 0.002020 |
| <b>Chloride by EPA 300</b>         | <i>Extracted:</i> | 11.23.2020 07:57   | 11.23.2020 07:57   | 11.23.2020 07:52   | 11.23.2020 07:52   | 11.23.2020 07:52   | 11.23.2020 07:52   |
|                                    | <i>Analyzed:</i>  | 11.23.2020 15:09   | 11.23.2020 15:14   | 11.23.2020 09:12   | 11.23.2020 09:27   | 11.23.2020 09:32   | 11.23.2020 09:37   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Chloride                           |                   | 136 50.1           | 525 49.9           | 85.6 9.90          | 87.7 49.9          | 37.3 9.96          | 537 50.1           |
| <b>TPH by SW8015 Mod</b>           | <i>Extracted:</i> | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   | 11.20.2020 15:00   |
|                                    | <i>Analyzed:</i>  | 11.21.2020 03:33   | 11.21.2020 03:53   | 11.20.2020 21:51   | 11.21.2020 04:14   | 11.21.2020 04:34   | 11.21.2020 04:54   |
|                                    | <i>Units/RL:</i>  | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           | mg/kg RL           |
| Gasoline Range Hydrocarbons (GRO)  |                   | <50.1 50.1         | <49.9 49.9         | <50.0 50.0         | <50.0 50.0         | <50.0 50.0         | <50.3 50.3         |
| Diesel Range Organics (DRO)        |                   | <50.1 50.1         | <49.9 49.9         | <50.0 50.0         | <50.0 50.0         | <50.0 50.0         | <50.3 50.3         |
| Motor Oil Range Hydrocarbons (MRO) |                   | <50.1 50.1         | <49.9 49.9         | <50.0 50.0         | <50.0 50.0         | <50.0 50.0         | <50.3 50.3         |
| Total GRO-DRO                      |                   | <50.10 50.10       | <49.90 49.90       | <50.00 50.00       | <50.00 50.00       | <50.00 50.00       | <50.30 50.30       |
| Total TPH                          |                   | <50.10 50.10       | <49.90 49.90       | <50.00 50.00       | <50.00 50.00       | <50.00 50.00       | <50.30 50.30       |

BRL - Below Reporting Limit

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



## Certificate of Analysis Summary 678616

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South State 25 501H

Project Id: 012920155

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri 11.20.2020 08:52

Report Date: 11.25.2020 07:22

Project Manager: Jessica Kramer

|                            |                                    |                    |  |  |  |  |  |
|----------------------------|------------------------------------|--------------------|--|--|--|--|--|
| <b>Analysis Requested</b>  | <b>Lab Id:</b>                     | 678616-019         |  |  |  |  |  |
|                            | <b>Field Id:</b>                   | FS19               |  |  |  |  |  |
|                            | <b>Depth:</b>                      | 2- ft              |  |  |  |  |  |
|                            | <b>Matrix:</b>                     | SOIL               |  |  |  |  |  |
|                            | <b>Sampled:</b>                    | 11.19.2020 16:33   |  |  |  |  |  |
| <b>BTEX by EPA 8021B</b>   | <b>Extracted:</b>                  | 11.21.2020 17:01   |  |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 11.21.2020 22:26   |  |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL           |  |  |  |  |  |
|                            | Benzene                            | <0.00200 0.00200   |  |  |  |  |  |
|                            | Toluene                            | <0.00200 0.00200   |  |  |  |  |  |
|                            | Ethylbenzene                       | <0.00200 0.00200   |  |  |  |  |  |
|                            | m,p-Xylenes                        | <0.00401 0.00401   |  |  |  |  |  |
|                            | o-Xylene                           | <0.00200 0.00200   |  |  |  |  |  |
|                            | Total Xylenes                      | <0.002000 0.002000 |  |  |  |  |  |
|                            | Total BTEX                         | <0.002000 0.002000 |  |  |  |  |  |
| <b>Chloride by EPA 300</b> | <b>Extracted:</b>                  | 11.23.2020 07:52   |  |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 11.23.2020 09:43   |  |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL           |  |  |  |  |  |
|                            | Chloride                           | 94.9 10.0          |  |  |  |  |  |
| <b>TPH by SW8015 Mod</b>   | <b>Extracted:</b>                  | 11.20.2020 15:00   |  |  |  |  |  |
|                            | <b>Analyzed:</b>                   | 11.21.2020 05:14   |  |  |  |  |  |
|                            | <b>Units/RL:</b>                   | mg/kg RL           |  |  |  |  |  |
|                            | Gasoline Range Hydrocarbons (GRO)  | <50.2 50.2         |  |  |  |  |  |
|                            | Diesel Range Organics (DRO)        | <50.2 50.2         |  |  |  |  |  |
|                            | Motor Oil Range Hydrocarbons (MRO) | <50.2 50.2         |  |  |  |  |  |
|                            | Total GRO-DRO                      | <50.20 50.20       |  |  |  |  |  |
|                            | Total TPH                          | <50.20 50.20       |  |  |  |  |  |

BRL - Below Reporting Limit

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





# Analytical Report 678616

for

**LT Environmental, Inc.**

**Project Manager: Dan Moir**

**Remuda South State 25 501H**

**012920155**

**11.25.2020**

Collected By: Client

**1089 N Canal Street  
Carlsbad, NM 88220**

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)  
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Dan Moir**

**LT Environmental, Inc.**

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **678616**

**Remuda South State 25 501H**

Project Address:

**Dan Moir:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678616. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678616 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

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**Jessica Kramer**

Project Manager

*A Small Business and Minority Company*

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

**Sample Cross Reference 678616****LT Environmental, Inc., Arvada, CO**

Remuda South State 25 501H

| Sample Id | Matrix | Date Collected   | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| FS01      | S      | 11.18.2020 14:36 | 1 ft         | 678616-001    |
| FS02      | S      | 11.18.2020 14:38 | 1 ft         | 678616-002    |
| FS03      | S      | 11.18.2020 15:23 | 1 ft         | 678616-003    |
| FS04      | S      | 11.18.2020 15:24 | 1 ft         | 678616-004    |
| FS05      | S      | 11.18.2020 15:25 | 1 ft         | 678616-005    |
| FS06      | S      | 11.18.2020 15:26 | 1 ft         | 678616-006    |
| FS07      | S      | 11.19.2020 09:45 | 1 ft         | 678616-007    |
| FS08      | S      | 11.19.2020 09:50 | 1 ft         | 678616-008    |
| FS09      | S      | 11.19.2020 11:19 | 1 ft         | 678616-009    |
| FS10      | S      | 11.19.2020 15:25 | 2 ft         | 678616-010    |
| FS11      | S      | 11.19.2020 15:26 | 2 ft         | 678616-011    |
| FS12      | S      | 11.19.2020 11:41 | 1 ft         | 678616-012    |
| FS13      | S      | 11.19.2020 12:10 | 1 ft         | 678616-013    |
| FS14      | S      | 11.19.2020 15:27 | 2 ft         | 678616-014    |
| FS15      | S      | 11.19.2020 15:42 | 2 ft         | 678616-015    |
| FS16      | S      | 11.19.2020 13:41 | 1 ft         | 678616-016    |
| FS17      | S      | 11.19.2020 14:25 | 2 ft         | 678616-017    |
| FS18      | S      | 11.19.2020 16:31 | 2 ft         | 678616-018    |
| FS19      | S      | 11.19.2020 16:33 | 2 ft         | 678616-019    |



## CASE NARRATIVE

**Client Name: LT Environmental, Inc.**

**Project Name: Remuda South State 25 501H**

Project ID: 012920155  
Work Order Number(s): 678616

Report Date: 11.25.2020  
Date Received: 11.20.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS01**  
Lab Sample Id: 678616-001

Matrix: Soil  
Date Collected: 11.18.2020 14:36

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 141    | 50.1 | mg/kg | 11.23.2020 13:46 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2  | mg/kg | 11.21.2020 22:21 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2  | mg/kg | 11.21.2020 22:21 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2  | mg/kg | 11.21.2020 22:21 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.20 | 50.20 | mg/kg | 11.21.2020 22:21 | U    | 1   |
| Total TPH                          | PHC635     | <50.20 | 50.20 | mg/kg | 11.21.2020 22:21 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 105        | %     | 70-135 | 11.21.2020 22:21 |      |
| o-Terphenyl    | 84-15-1    | 114        | %     | 70-135 | 11.21.2020 22:21 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS01**  
Lab Sample Id: 678616-001

Matrix: Soil  
Date Collected: 11.18.2020 14:36

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 06:23 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 06:23 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 06:23 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399  | 0.00399  | mg/kg | 11.21.2020 06:23 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 06:23 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 11.21.2020 06:23 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 11.21.2020 06:23 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 117        | %     | 70-130 | 11.21.2020 06:23 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 11.21.2020 06:23 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS02**  
Lab Sample Id: 678616-002

Matrix: Soil  
Date Collected: 11.18.2020 14:38

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 204    | 49.9 | mg/kg | 11.23.2020 13:51 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8  | mg/kg | 11.21.2020 22:41 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8  | mg/kg | 11.21.2020 22:41 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8  | mg/kg | 11.21.2020 22:41 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.80 | 49.80 | mg/kg | 11.21.2020 22:41 | U    | 1   |
| Total TPH                          | PHC635     | <49.80 | 49.80 | mg/kg | 11.21.2020 22:41 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 111        | %     | 70-135 | 11.21.2020 22:41 |      |
| o-Terphenyl    | 84-15-1    | 121        | %     | 70-135 | 11.21.2020 22:41 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS02**  
Lab Sample Id: 678616-002

Matrix: Soil  
Date Collected: 11.18.2020 14:38

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.001990         | 0.001990     | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| Total BTEX           |                   | <0.001990         | 0.001990     | mg/kg         | 11.21.2020 06:45     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 119               | %            | 70-130        | 11.21.2020 06:45     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 11.21.2020 06:45     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS03**  
Lab Sample Id: 678616-003

Matrix: Soil  
Date Collected: 11.18.2020 15:23

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 213    | 49.8 | mg/kg | 11.23.2020 13:56 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.21.2020 23:01 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.21.2020 23:01 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.21.2020 23:01 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.21.2020 23:01 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.21.2020 23:01 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 117        | %     | 70-135 | 11.21.2020 23:01 |      |
| o-Terphenyl    | 84-15-1    | 107        | %     | 70-135 | 11.21.2020 23:01 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS03**  
Lab Sample Id: 678616-003

Matrix: Soil  
Date Collected: 11.18.2020 15:23

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.001980         | 0.001980     | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| Total BTEX           |                   | <0.001980         | 0.001980     | mg/kg         | 11.21.2020 07:07     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 114               | %            | 70-130        | 11.21.2020 07:07     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 11.21.2020 07:07     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS04**  
Lab Sample Id: 678616-004

Matrix: Soil  
Date Collected: 11.18.2020 15:24

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 114    | 50.1 | mg/kg | 11.23.2020 14:01 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.21.2020 23:21 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.21.2020 23:21 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.21.2020 23:21 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.21.2020 23:21 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.21.2020 23:21 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 97         | %     | 70-135 | 11.21.2020 23:21 |      |
| o-Terphenyl    | 84-15-1    | 109        | %     | 70-135 | 11.21.2020 23:21 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS04**  
Lab Sample Id: 678616-004

Matrix: Soil  
Date Collected: 11.18.2020 15:24

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| Toluene              | 108-88-3          | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00398          | 0.00398      | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00199          | 0.00199      | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.001990         | 0.001990     | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| Total BTEX           |                   | <0.001990         | 0.001990     | mg/kg         | 11.21.2020 07:30     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 121               | %            | 70-130        | 11.21.2020 07:30     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 11.21.2020 07:30     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS05**  
Lab Sample Id: 678616-005

Matrix: Soil  
Date Collected: 11.18.2020 15:25

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 217    | 49.7 | mg/kg | 11.23.2020 14:07 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.22.2020 00:01 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.22.2020 00:01 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.22.2020 00:01 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.22.2020 00:01 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.22.2020 00:01 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 11.22.2020 00:01 |      |
| o-Terphenyl    | 84-15-1    | 105        | %     | 70-135 | 11.22.2020 00:01 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS05**  
Lab Sample Id: 678616-005

Matrix: Soil  
Date Collected: 11.18.2020 15:25

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 08:49 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 08:49 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 08:49 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399  | 0.00399  | mg/kg | 11.21.2020 08:49 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 08:49 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 11.21.2020 08:49 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 11.21.2020 08:49 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 105        | %     | 70-130 | 11.21.2020 08:49 |      |
| 4-Bromofluorobenzene | 460-00-4   | 115        | %     | 70-130 | 11.21.2020 08:49 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS06**  
Lab Sample Id: 678616-006

Matrix: Soil  
Date Collected: 11.18.2020 15:26

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 61.3   | 49.8 | mg/kg | 11.23.2020 14:22 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.21.2020 16:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3143019

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2  | mg/kg | 11.22.2020 00:22 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2  | mg/kg | 11.22.2020 00:22 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2  | mg/kg | 11.22.2020 00:22 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.20 | 50.20 | mg/kg | 11.22.2020 00:22 | U    | 1   |
| Total TPH                          | PHC635     | <50.20 | 50.20 | mg/kg | 11.22.2020 00:22 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 122        | %     | 70-135 | 11.22.2020 00:22 |      |
| o-Terphenyl    | 84-15-1    | 113        | %     | 70-135 | 11.22.2020 00:22 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS06**  
Lab Sample Id: 678616-006

Matrix: Soil  
Date Collected: 11.18.2020 15:26

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| Total BTEX           |                   | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:12     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 11.21.2020 09:12     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 113               | %            | 70-130        | 11.21.2020 09:12     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS07**  
Lab Sample Id: 678616-007

Matrix: Soil  
Date Collected: 11.19.2020 09:45

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 192    | 49.8 | mg/kg | 11.23.2020 14:28 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9  | mg/kg | 11.21.2020 01:12 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9  | mg/kg | 11.21.2020 01:12 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9  | mg/kg | 11.21.2020 01:12 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.90 | 49.90 | mg/kg | 11.21.2020 01:12 | U    | 1   |
| Total TPH                          | PHC635     | <49.90 | 49.90 | mg/kg | 11.21.2020 01:12 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 110        | %     | 70-135 | 11.21.2020 01:12 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-135 | 11.21.2020 01:12 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS07**  
Lab Sample Id: 678616-007

Matrix: Soil  
Date Collected: 11.19.2020 09:45

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| Total BTEX           |                   | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:34     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 121               | %            | 70-130        | 11.21.2020 09:34     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 11.21.2020 09:34     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS08**  
Lab Sample Id: 678616-008

Matrix: Soil  
Date Collected: 11.19.2020 09:50

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 112    | 50.4 | mg/kg | 11.23.2020 14:43 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.8  | 49.8  | mg/kg | 11.21.2020 01:32 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.8  | 49.8  | mg/kg | 11.21.2020 01:32 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.8  | 49.8  | mg/kg | 11.21.2020 01:32 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.80 | 49.80 | mg/kg | 11.21.2020 01:32 | U    | 1   |
| Total TPH                          | PHC635     | <49.80 | 49.80 | mg/kg | 11.21.2020 01:32 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 11.21.2020 01:32 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 11.21.2020 01:32 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS08**  
Lab Sample Id: 678616-008

Matrix: Soil  
Date Collected: 11.19.2020 09:50

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00404          | 0.00404      | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| Total BTEX           |                   | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 09:57     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 70-130        | 11.21.2020 09:57     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 11.21.2020 09:57     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS09**  
Lab Sample Id: 678616-009

Matrix: Soil  
Date Collected: 11.19.2020 11:19

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 105    | 50.5 | mg/kg | 11.23.2020 14:48 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result       | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1        | 50.1  | mg/kg | 11.21.2020 02:13 | U    | 1   |
| <b>Diesel Range Organics (DRO)</b> | C10C28DRO  | <b>72.1</b>  | 50.1  | mg/kg | 11.21.2020 02:13 |      | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1        | 50.1  | mg/kg | 11.21.2020 02:13 | U    | 1   |
| <b>Total GRO-DRO</b>               | PHC628     | <b>72.10</b> | 50.10 | mg/kg | 11.21.2020 02:13 |      | 1   |
| <b>Total TPH</b>                   | PHC635     | <b>72.10</b> | 50.10 | mg/kg | 11.21.2020 02:13 |      | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 107        | %     | 70-135 | 11.21.2020 02:13 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 11.21.2020 02:13 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS09**  
Lab Sample Id: 678616-009

Matrix: Soil  
Date Collected: 11.19.2020 11:19

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 10:19     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 115               | %            | 70-130        | 11.21.2020 10:19     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 102               | %            | 70-130        | 11.21.2020 10:19     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS10**  
Lab Sample Id: 678616-010

Matrix: Soil  
Date Collected: 11.19.2020 15:25

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 282    | 50.4 | mg/kg | 11.23.2020 14:53 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.21.2020 02:33 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.21.2020 02:33 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.21.2020 02:33 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.21.2020 02:33 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.21.2020 02:33 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 127        | %     | 70-135 | 11.21.2020 02:33 |      |
| o-Terphenyl    | 84-15-1    | 116        | %     | 70-135 | 11.21.2020 02:33 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS10**  
Lab Sample Id: 678616-010

Matrix: Soil  
Date Collected: 11.19.2020 15:25

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| Toluene              | 108-88-3          | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00397          | 0.00397      | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00198          | 0.00198      | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.001980         | 0.001980     | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| Total BTEX           |                   | <0.001980         | 0.001980     | mg/kg         | 11.21.2020 10:41     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 11.21.2020 10:41     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 117               | %            | 70-130        | 11.21.2020 10:41     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS11**  
Lab Sample Id: 678616-011

Matrix: Soil  
Date Collected: 11.19.2020 15:26

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 51.2   | 9.96 | mg/kg | 11.23.2020 14:59 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 11.21.2020 02:53 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 11.21.2020 02:53 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 11.21.2020 02:53 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.00 | 50.00 | mg/kg | 11.21.2020 02:53 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 11.21.2020 02:53 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 119        | %     | 70-135 | 11.21.2020 02:53 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-135 | 11.21.2020 02:53 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS11**  
Lab Sample Id: 678616-011

Matrix: Soil  
Date Collected: 11.19.2020 15:26

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 11:04     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 114               | %            | 70-130        | 11.21.2020 11:04     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 101               | %            | 70-130        | 11.21.2020 11:04     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS12**  
Lab Sample Id: 678616-012

Matrix: Soil  
Date Collected: 11.19.2020 11:41

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 84.0   | 10.0 | mg/kg | 11.23.2020 15:04 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.21.2020 03:13 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.21.2020 03:13 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.21.2020 03:13 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.21.2020 03:13 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.21.2020 03:13 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 115        | %     | 70-135 | 11.21.2020 03:13 |      |
| o-Terphenyl    | 84-15-1    | 94         | %     | 70-135 | 11.21.2020 03:13 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS12**  
Lab Sample Id: 678616-012

Matrix: Soil  
Date Collected: 11.19.2020 11:41

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00199  | 0.00199  | mg/kg | 11.21.2020 11:26 | U    | 1   |
| Toluene       | 108-88-3    | <0.00199  | 0.00199  | mg/kg | 11.21.2020 11:26 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00199  | 0.00199  | mg/kg | 11.21.2020 11:26 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00398  | 0.00398  | mg/kg | 11.21.2020 11:26 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00199  | 0.00199  | mg/kg | 11.21.2020 11:26 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.001990 | 0.001990 | mg/kg | 11.21.2020 11:26 | U    | 1   |
| Total BTEX    |             | <0.001990 | 0.001990 | mg/kg | 11.21.2020 11:26 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4   | 118        | %     | 70-130 | 11.21.2020 11:26 |      |
| 1,4-Difluorobenzene  | 540-36-3   | 107        | %     | 70-130 | 11.21.2020 11:26 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS13**  
Lab Sample Id: 678616-013

Matrix: Soil  
Date Collected: 11.19.2020 12:10

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 136    | 50.1 | mg/kg | 11.23.2020 15:09 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.1  | 50.1  | mg/kg | 11.21.2020 03:33 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.1  | 50.1  | mg/kg | 11.21.2020 03:33 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.1  | 50.1  | mg/kg | 11.21.2020 03:33 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.10 | 50.10 | mg/kg | 11.21.2020 03:33 | U    | 1   |
| Total TPH                          | PHC635     | <50.10 | 50.10 | mg/kg | 11.21.2020 03:33 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 103        | %     | 70-135 | 11.21.2020 03:33 |      |
| o-Terphenyl    | 84-15-1    | 116        | %     | 70-135 | 11.21.2020 03:33 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS13**  
Lab Sample Id: 678616-013

Matrix: Soil  
Date Collected: 11.19.2020 12:10

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00201          | 0.00201      | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| Toluene              | 108-88-3          | <0.00201          | 0.00201      | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00201          | 0.00201      | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00402          | 0.00402      | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00201          | 0.00201      | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002010         | 0.002010     | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| Total BTEX           |                   | <0.002010         | 0.002010     | mg/kg         | 11.21.2020 11:49     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 120               | %            | 70-130        | 11.21.2020 11:49     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 11.21.2020 11:49     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS14**  
Lab Sample Id: 678616-014

Matrix: Soil  
Date Collected: 11.19.2020 15:27

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:57

% Moisture:  
Basis: Wet Weight

Seq Number: 3143165

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 525    | 49.9 | mg/kg | 11.23.2020 15:14 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <49.9  | 49.9  | mg/kg | 11.21.2020 03:53 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <49.9  | 49.9  | mg/kg | 11.21.2020 03:53 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <49.9  | 49.9  | mg/kg | 11.21.2020 03:53 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <49.90 | 49.90 | mg/kg | 11.21.2020 03:53 | U    | 1   |
| Total TPH                          | PHC635     | <49.90 | 49.90 | mg/kg | 11.21.2020 03:53 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 121        | %     | 70-135 | 11.21.2020 03:53 |      |
| o-Terphenyl    | 84-15-1    | 106        | %     | 70-135 | 11.21.2020 03:53 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS14**  
Lab Sample Id: 678616-014

Matrix: Soil  
Date Collected: 11.19.2020 15:27

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.20.2020 18:08

% Moisture:  
Basis: Wet Weight

Seq Number: 3142997

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00201  | 0.00201  | mg/kg | 11.21.2020 12:11 | U    | 1   |
| Toluene       | 108-88-3    | <0.00201  | 0.00201  | mg/kg | 11.21.2020 12:11 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00201  | 0.00201  | mg/kg | 11.21.2020 12:11 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00402  | 0.00402  | mg/kg | 11.21.2020 12:11 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00201  | 0.00201  | mg/kg | 11.21.2020 12:11 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002010 | 0.002010 | mg/kg | 11.21.2020 12:11 | U    | 1   |
| Total BTEX    |             | <0.002010 | 0.002010 | mg/kg | 11.21.2020 12:11 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 102        | %     | 70-130 | 11.21.2020 12:11 |      |
| 4-Bromofluorobenzene | 460-00-4   | 117        | %     | 70-130 | 11.21.2020 12:11 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS15**  
Lab Sample Id: 678616-015

Matrix: Soil  
Date Collected: 11.19.2020 15:42

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:52

% Moisture:  
Basis: Wet Weight

Seq Number: 3143163

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 85.6   | 9.90 | mg/kg | 11.23.2020 09:12 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 11.20.2020 21:51 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 11.20.2020 21:51 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 11.20.2020 21:51 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.00 | 50.00 | mg/kg | 11.20.2020 21:51 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 11.20.2020 21:51 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 113        | %     | 70-135 | 11.20.2020 21:51 |      |
| o-Terphenyl    | 84-15-1    | 104        | %     | 70-135 | 11.20.2020 21:51 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS15**  
Lab Sample Id: 678616-015

Matrix: Soil  
Date Collected: 11.19.2020 15:42

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:01

% Moisture:  
Basis: Wet Weight

Seq Number: 3143103

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 20:56 | U    | 1   |
| Toluene       | 108-88-3    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 20:56 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00200  | 0.00200  | mg/kg | 11.21.2020 20:56 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00399  | 0.00399  | mg/kg | 11.21.2020 20:56 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00200  | 0.00200  | mg/kg | 11.21.2020 20:56 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002000 | 0.002000 | mg/kg | 11.21.2020 20:56 | U    | 1   |
| Total BTEX    |             | <0.002000 | 0.002000 | mg/kg | 11.21.2020 20:56 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 104        | %     | 70-130 | 11.21.2020 20:56 |      |
| 4-Bromofluorobenzene | 460-00-4   | 117        | %     | 70-130 | 11.21.2020 20:56 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS16**  
Lab Sample Id: 678616-016

Matrix: Soil  
Date Collected: 11.19.2020 13:41

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:52

% Moisture:  
Basis: Wet Weight

Seq Number: 3143163

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 87.7   | 49.9 | mg/kg | 11.23.2020 09:27 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 11.21.2020 04:14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 11.21.2020 04:14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 11.21.2020 04:14 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.00 | 50.00 | mg/kg | 11.21.2020 04:14 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 11.21.2020 04:14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 114        | %     | 70-135 | 11.21.2020 04:14 |      |
| o-Terphenyl    | 84-15-1    | 118        | %     | 70-135 | 11.21.2020 04:14 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS16**  
Lab Sample Id: 678616-016

Matrix: Soil  
Date Collected: 11.19.2020 13:41

Date Received: 11.20.2020 08:52  
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:01

% Moisture:  
Basis: Wet Weight

Seq Number: 3143103

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00399          | 0.00399      | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 21:18     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 4-Bromofluorobenzene | 460-00-4          | 116               | %            | 70-130        | 11.21.2020 21:18     |             |     |
| 1,4-Difluorobenzene  | 540-36-3          | 105               | %            | 70-130        | 11.21.2020 21:18     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS17**  
Lab Sample Id: 678616-017

Matrix: Soil  
Date Collected: 11.19.2020 14:25

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:52

% Moisture:  
Basis: Wet Weight

Seq Number: 3143163

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 37.3   | 9.96 | mg/kg | 11.23.2020 09:32 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.0  | 50.0  | mg/kg | 11.21.2020 04:34 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.0  | 50.0  | mg/kg | 11.21.2020 04:34 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.0  | 50.0  | mg/kg | 11.21.2020 04:34 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.00 | 50.00 | mg/kg | 11.21.2020 04:34 | U    | 1   |
| Total TPH                          | PHC635     | <50.00 | 50.00 | mg/kg | 11.21.2020 04:34 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 106        | %     | 70-135 | 11.21.2020 04:34 |      |
| o-Terphenyl    | 84-15-1    | 114        | %     | 70-135 | 11.21.2020 04:34 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS17**  
Lab Sample Id: 678616-017

Matrix: Soil  
Date Collected: 11.19.2020 14:25

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:01

% Moisture:  
Basis: Wet Weight

Seq Number: 3143103

| Parameter     | Cas Number  | Result    | RL       | Units | Analysis Date    | Flag | Dil |
|---------------|-------------|-----------|----------|-------|------------------|------|-----|
| Benzene       | 71-43-2     | <0.00202  | 0.00202  | mg/kg | 11.21.2020 21:41 | U    | 1   |
| Toluene       | 108-88-3    | <0.00202  | 0.00202  | mg/kg | 11.21.2020 21:41 | U    | 1   |
| Ethylbenzene  | 100-41-4    | <0.00202  | 0.00202  | mg/kg | 11.21.2020 21:41 | U    | 1   |
| m,p-Xylenes   | 179601-23-1 | <0.00403  | 0.00403  | mg/kg | 11.21.2020 21:41 | U    | 1   |
| o-Xylene      | 95-47-6     | <0.00202  | 0.00202  | mg/kg | 11.21.2020 21:41 | U    | 1   |
| Total Xylenes | 1330-20-7   | <0.002020 | 0.002020 | mg/kg | 11.21.2020 21:41 | U    | 1   |
| Total BTEX    |             | <0.002020 | 0.002020 | mg/kg | 11.21.2020 21:41 | U    | 1   |

| Surrogate            | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene  | 540-36-3   | 106        | %     | 70-130 | 11.21.2020 21:41 |      |
| 4-Bromofluorobenzene | 460-00-4   | 120        | %     | 70-130 | 11.21.2020 21:41 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS18**  
Lab Sample Id: 678616-018

Matrix: Soil  
Date Collected: 11.19.2020 16:31

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:52

% Moisture:  
Basis: Wet Weight

Seq Number: 3143163

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 537    | 50.1 | mg/kg | 11.23.2020 09:37 |      | 5   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.3  | 50.3  | mg/kg | 11.21.2020 04:54 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.3  | 50.3  | mg/kg | 11.21.2020 04:54 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.3  | 50.3  | mg/kg | 11.21.2020 04:54 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.30 | 50.30 | mg/kg | 11.21.2020 04:54 | U    | 1   |
| Total TPH                          | PHC635     | <50.30 | 50.30 | mg/kg | 11.21.2020 04:54 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 124        | %     | 70-135 | 11.21.2020 04:54 |      |
| o-Terphenyl    | 84-15-1    | 98         | %     | 70-135 | 11.21.2020 04:54 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS18**  
Lab Sample Id: 678616-018

Matrix: Soil  
Date Collected: 11.19.2020 16:31

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:01

% Moisture:  
Basis: Wet Weight

Seq Number: 3143103

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| Toluene              | 108-88-3          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00403          | 0.00403      | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00202          | 0.00202      | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| Total BTEX           |                   | <0.002020         | 0.002020     | mg/kg         | 11.21.2020 22:03     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 104               | %            | 70-130        | 11.21.2020 22:03     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 116               | %            | 70-130        | 11.21.2020 22:03     |             |     |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS19**  
Lab Sample Id: 678616-019

Matrix: Soil  
Date Collected: 11.19.2020 16:33

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.23.2020 07:52

% Moisture:  
Basis: Wet Weight

Seq Number: 3143163

| Parameter | Cas Number | Result | RL   | Units | Analysis Date    | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride  | 16887-00-6 | 94.9   | 10.0 | mg/kg | 11.23.2020 09:43 |      | 1   |

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 11.20.2020 15:00

% Moisture:  
Basis: Wet Weight

Seq Number: 3142992

| Parameter                          | Cas Number | Result | RL    | Units | Analysis Date    | Flag | Dil |
|------------------------------------|------------|--------|-------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons (GRO)  | PHC610     | <50.2  | 50.2  | mg/kg | 11.21.2020 05:14 | U    | 1   |
| Diesel Range Organics (DRO)        | C10C28DRO  | <50.2  | 50.2  | mg/kg | 11.21.2020 05:14 | U    | 1   |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835   | <50.2  | 50.2  | mg/kg | 11.21.2020 05:14 | U    | 1   |
| Total GRO-DRO                      | PHC628     | <50.20 | 50.20 | mg/kg | 11.21.2020 05:14 | U    | 1   |
| Total TPH                          | PHC635     | <50.20 | 50.20 | mg/kg | 11.21.2020 05:14 | U    | 1   |

| Surrogate      | Cas Number | % Recovery | Units | Limits | Analysis Date    | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3   | 116        | %     | 70-135 | 11.21.2020 05:14 |      |
| o-Terphenyl    | 84-15-1    | 114        | %     | 70-135 | 11.21.2020 05:14 |      |



# Certificate of Analytical Results 678616

## LT Environmental, Inc., Arvada, CO

Remuda South State 25 501H

Sample Id: **FS19**  
Lab Sample Id: 678616-019

Matrix: Soil  
Date Collected: 11.19.2020 16:33

Date Received: 11.20.2020 08:52  
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 11.21.2020 17:01

% Moisture:  
Basis: Wet Weight

Seq Number: 3143103

| Parameter            | Cas Number        | Result            | RL           | Units         | Analysis Date        | Flag        | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene              | 71-43-2           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| Toluene              | 108-88-3          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| Ethylbenzene         | 100-41-4          | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| m,p-Xylenes          | 179601-23-1       | <0.00401          | 0.00401      | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| o-Xylene             | 95-47-6           | <0.00200          | 0.00200      | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| Total Xylenes        | 1330-20-7         | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| Total BTEX           |                   | <0.002000         | 0.002000     | mg/kg         | 11.21.2020 22:26     | U           | 1   |
| <b>Surrogate</b>     | <b>Cas Number</b> | <b>% Recovery</b> | <b>Units</b> | <b>Limits</b> | <b>Analysis Date</b> | <b>Flag</b> |     |
| 1,4-Difluorobenzene  | 540-36-3          | 103               | %            | 70-130        | 11.21.2020 22:26     |             |     |
| 4-Bromofluorobenzene | 460-00-4          | 118               | %            | 70-130        | 11.21.2020 22:26     |             |     |

## Flagging Criteria

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

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.      **ND** Not Detected.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

**SMP** Client Sample      **BLK** Method Blank

**BKS/LCS** Blank Spike/Laboratory Control Sample      **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

**MD/SD** Method Duplicate/Sample Duplicate      **MS** Matrix Spike      **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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



**LT Environmental, Inc.**  
Remuda South State 25 501H

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143163

MB Sample Id: 7715704-1-BLK

Matrix: Solid

LCS Sample Id: 7715704-1-BKS

Prep Method: E300P

Date Prep: 11.23.2020

LCSD Sample Id: 7715704-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 247        | 99       | 244         | 98        | 90-110 | 1    | 20        | mg/kg | 11.23.2020 09:01 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143165

MB Sample Id: 7715706-1-BLK

Matrix: Solid

LCS Sample Id: 7715706-1-BKS

Prep Method: E300P

Date Prep: 11.23.2020

LCSD Sample Id: 7715706-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride  | <10.0     | 250          | 246        | 98       | 242         | 97        | 90-110 | 2    | 20        | mg/kg | 11.23.2020 12:44 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143163

Parent Sample Id: 678616-015

Matrix: Soil

MS Sample Id: 678616-015 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678616-015 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 85.6          | 199          | 284       | 100     | 291        | 103      | 90-110 | 2    | 20        | mg/kg | 11.23.2020 09:17 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143163

Parent Sample Id: 678642-002

Matrix: Soil

MS Sample Id: 678642-002 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678642-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 9430          | 198          | 9640      | 106     | 9630       | 99       | 90-110 | 0    | 20        | mg/kg | 11.23.2020 10:29 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143165

Parent Sample Id: 678611-001

Matrix: Soil

MS Sample Id: 678611-001 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678611-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 20.6          | 199          | 211       | 96      | 212        | 96       | 90-110 | 0    | 20        | mg/kg | 11.23.2020 12:59 |      |

**Analytical Method: Chloride by EPA 300**

Seq Number: 3143165

Parent Sample Id: 678616-005

Matrix: Soil

MS Sample Id: 678616-005 S

Prep Method: E300P

Date Prep: 11.23.2020

MSD Sample Id: 678616-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride  | 217           | 200          | 407       | 95      | 404        | 94       | 90-110 | 1    | 20        | mg/kg | 11.23.2020 14:12 |      |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

**LT Environmental, Inc.**  
Remuda South State 25 501H
**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3142992

MB Sample Id: 7715675-1-BLK

Matrix: Solid

LCS Sample Id: 7715675-1-BKS

Prep Method: SW8015P

Date Prep: 11.20.2020

LCSD Sample Id: 7715675-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 1120       | 112      | 1030        | 103       | 70-135 | 8    | 35        | mg/kg | 11.20.2020 21:11 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1190       | 119      | 1170        | 117       | 70-135 | 2    | 35        | mg/kg | 11.20.2020 21:11 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 118     |         | 107      |          | 116       |           | 70-135 | %     | 11.20.2020 21:11 |
| o-Terphenyl    | 117     |         | 124      |          | 116       |           | 70-135 | %     | 11.20.2020 21:11 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3143019

MB Sample Id: 7715746-1-BLK

Matrix: Solid

LCS Sample Id: 7715746-1-BKS

Prep Method: SW8015P

Date Prep: 11.21.2020

LCSD Sample Id: 7715746-1-BSD

| Parameter                         | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0     | 1000         | 952        | 95       | 897         | 90        | 70-135 | 6    | 35        | mg/kg | 11.21.2020 18:58 |      |
| Diesel Range Organics (DRO)       | <50.0     | 1000         | 1080       | 108      | 1050        | 105       | 70-135 | 3    | 35        | mg/kg | 11.21.2020 18:58 |      |

| Surrogate      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 109     |         | 131      |          | 127       |           | 70-135 | %     | 11.21.2020 18:58 |
| o-Terphenyl    | 110     |         | 104      |          | 104       |           | 70-135 | %     | 11.21.2020 18:58 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3142992

Matrix: Solid

MB Sample Id: 7715675-1-BLK

Prep Method: SW8015P

Date Prep: 11.20.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 11.20.2020 20:51 |      |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3143019

Matrix: Solid

MB Sample Id: 7715746-1-BLK

Prep Method: SW8015P

Date Prep: 11.21.2020

| Parameter                          | MB Result | Units | Analysis Date    | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0     | mg/kg | 11.21.2020 18:38 |      |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

**LT Environmental, Inc.**  
Remuda South State 25 501H
**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3142992

Parent Sample Id: 678616-015

Matrix: Soil

MS Sample Id: 678616-015 S

Prep Method: SW8015P

Date Prep: 11.20.2020

MSD Sample Id: 678616-015 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.2         | 1000         | 1150      | 115     | 1210       | 121      | 70-135 | 5    | 35        | mg/kg | 11.20.2020 22:11 |      |
| Diesel Range Organics (DRO)       | <50.2         | 1000         | 1040      | 104     | 1130       | 113      | 70-135 | 8    | 35        | mg/kg | 11.20.2020 22:11 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 98      |         | 114      |          | 70-135 | %     | 11.20.2020 22:11 |
| o-Terphenyl    | 114     |         | 98       |          | 70-135 | %     | 11.20.2020 22:11 |

**Analytical Method: TPH by SW8015 Mod**

Seq Number: 3143019

Parent Sample Id: 678611-001

Matrix: Soil

MS Sample Id: 678611-001 S

Prep Method: SW8015P

Date Prep: 11.21.2020

MSD Sample Id: 678611-001 SD

| Parameter                         | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.2         | 1000         | 1070      | 107     | 1010       | 101      | 70-135 | 6    | 35        | mg/kg | 11.21.2020 19:59 |      |
| Diesel Range Organics (DRO)       | <50.2         | 1000         | 1000      | 100     | 1120       | 112      | 70-135 | 11   | 35        | mg/kg | 11.21.2020 19:59 |      |

**Surrogate**

|                | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 110     |         | 99       |          | 70-135 | %     | 11.21.2020 19:59 |
| o-Terphenyl    | 108     |         | 108      |          | 70-135 | %     | 11.21.2020 19:59 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3142997

MB Sample Id: 7715673-1-BLK

Matrix: Solid

LCS Sample Id: 7715673-1-BKS

Prep Method: SW5035A

Date Prep: 11.20.2020

LCSD Sample Id: 7715673-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.101      | 101      | 0.0982      | 98        | 70-130 | 3    | 35        | mg/kg | 11.21.2020 02:04 |      |
| Toluene      | <0.00200  | 0.100        | 0.0953     | 95       | 0.0911      | 91        | 70-130 | 5    | 35        | mg/kg | 11.21.2020 02:04 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.0985     | 99       | 0.0943      | 94        | 71-129 | 4    | 35        | mg/kg | 11.21.2020 02:04 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.199      | 100      | 0.191       | 96        | 70-135 | 4    | 35        | mg/kg | 11.21.2020 02:04 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.0986     | 99       | 0.0946      | 95        | 71-133 | 4    | 35        | mg/kg | 11.21.2020 02:04 |      |

**Surrogate**

|                      | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 104     |         | 99       |          | 97        |           | 70-130 | %     | 11.21.2020 02:04 |
| 4-Bromofluorobenzene | 118     |         | 107      |          | 106       |           | 70-130 | %     | 11.21.2020 02:04 |

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

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

**LT Environmental, Inc.**  
 Remuda South State 25 501H
**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3143103

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.21.2020

MB Sample Id: 7715708-1-BLK

LCS Sample Id: 7715708-1-BKS

LCSD Sample Id: 7715708-1-BSD

| Parameter    | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200  | 0.100        | 0.106      | 106      | 0.0977      | 98        | 70-130 | 8    | 35        | mg/kg | 11.21.2020 18:51 |      |
| Toluene      | <0.00200  | 0.100        | 0.0971     | 97       | 0.0905      | 91        | 70-130 | 7    | 35        | mg/kg | 11.21.2020 18:51 |      |
| Ethylbenzene | <0.00200  | 0.100        | 0.100      | 100      | 0.0945      | 95        | 71-129 | 6    | 35        | mg/kg | 11.21.2020 18:51 |      |
| m,p-Xylenes  | <0.00400  | 0.200        | 0.205      | 103      | 0.195       | 98        | 70-135 | 5    | 35        | mg/kg | 11.21.2020 18:51 |      |
| o-Xylene     | <0.00200  | 0.100        | 0.100      | 100      | 0.0963      | 96        | 71-133 | 4    | 35        | mg/kg | 11.21.2020 18:51 |      |

| Surrogate            | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 115     |         | 103      |          | 100       |           | 70-130 | %     | 11.21.2020 18:51 |
| 4-Bromofluorobenzene | 119     |         | 106      |          | 107       |           | 70-130 | %     | 11.21.2020 18:51 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3142997

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.20.2020

Parent Sample Id: 678611-001

MS Sample Id: 678611-001 S

MSD Sample Id: 678611-001 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.0998       | 0.0930    | 93      | 0.0909     | 91       | 70-130 | 2    | 35        | mg/kg | 11.21.2020 02:48 |      |
| Toluene      | <0.00200      | 0.0998       | 0.0873    | 87      | 0.0863     | 86       | 70-130 | 1    | 35        | mg/kg | 11.21.2020 02:48 |      |
| Ethylbenzene | <0.00200      | 0.0998       | 0.0928    | 93      | 0.0910     | 91       | 71-129 | 2    | 35        | mg/kg | 11.21.2020 02:48 |      |
| m,p-Xylenes  | <0.00399      | 0.200        | 0.183     | 92      | 0.181      | 90       | 70-135 | 1    | 35        | mg/kg | 11.21.2020 02:48 |      |
| o-Xylene     | <0.00200      | 0.0998       | 0.0899    | 90      | 0.0909     | 91       | 71-133 | 1    | 35        | mg/kg | 11.21.2020 02:48 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 99      |         | 103      |          | 70-130 | %     | 11.21.2020 02:48 |
| 4-Bromofluorobenzene | 109     |         | 107      |          | 70-130 | %     | 11.21.2020 02:48 |

**Analytical Method: BTEX by EPA 8021B**

Seq Number: 3143103

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.21.2020

Parent Sample Id: 678616-015

MS Sample Id: 678616-015 S

MSD Sample Id: 678616-015 SD

| Parameter    | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date    | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene      | <0.00200      | 0.100        | 0.0917    | 92      | 0.0822     | 82       | 70-130 | 11   | 35        | mg/kg | 11.21.2020 19:36 |      |
| Toluene      | <0.00200      | 0.100        | 0.0860    | 86      | 0.0721     | 72       | 70-130 | 18   | 35        | mg/kg | 11.21.2020 19:36 |      |
| Ethylbenzene | <0.00200      | 0.100        | 0.0861    | 86      | 0.0792     | 79       | 71-129 | 8    | 35        | mg/kg | 11.21.2020 19:36 |      |
| m,p-Xylenes  | <0.00400      | 0.200        | 0.176     | 88      | 0.139      | 70       | 70-135 | 23   | 35        | mg/kg | 11.21.2020 19:36 |      |
| o-Xylene     | <0.00200      | 0.100        | 0.0864    | 86      | 0.0709     | 71       | 71-133 | 20   | 35        | mg/kg | 11.21.2020 19:36 |      |

| Surrogate            | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date    |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene  | 95      |         | 100      |          | 70-130 | %     | 11.21.2020 19:36 |
| 4-Bromofluorobenzene | 102     |         | 111      |          | 70-130 | %     | 11.21.2020 19:36 |

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

 $[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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



## Chain of Custody

Work Order No: 678616

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

www.xenco.com Page 1 of 2

|                  |                                        |                         |                                               |
|------------------|----------------------------------------|-------------------------|-----------------------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Litrell                                  |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                                    |
| Address:         | 3300 North A Street                    | Address:                |                                               |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        |                                               |
| Phone:           | (432) 236-3849                         | Email:                  | Elliot.Lee@wsp.com / Tacoma.Morrissey@wsp.com |

|                 |                            |             |                                     |
|-----------------|----------------------------|-------------|-------------------------------------|
| Project Name:   | Remuda South State 25 501H | Turn Around |                                     |
| Project Number: | 12920155                   | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |                            | Rush:       |                                     |
| Sampler's Name: | Elliot Lee                 | Due Date:   |                                     |

|                       |                                                                         |                    |                                                                     |          |                                                                     |
|-----------------------|-------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------|----------|---------------------------------------------------------------------|
| <b>SAMPLE RECEIPT</b> |                                                                         | Temp Blank:        | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Temperature (°C):     | 4.4 / 4.2                                                               | Thermometer ID     |                                                                     |          |                                                                     |
| Received Intact:      | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>     | Correction Factor: |                                                                     |          |                                                                     |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Total Containers:  |                                                                     |          |                                                                     |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 19                 |                                                                     |          |                                                                     |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | ANALYSIS REQUEST |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  | Work Order Notes |
|-----------------------|--------|--------------|--------------|-------|------------------|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|------------------|
| FS01                  | S      | 11/18/2020   | 14:36        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS02                  | S      | 11/18/2020   | 14:38        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS03                  | S      | 11/18/2020   | 15:23        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS04                  | S      | 11/18/2020   | 15:24        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS05                  | S      | 11/18/2020   | 15:25        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS06                  | S      | 11/18/2020   | 15:26        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS07                  | S      | 11/19/2020   | 9:45         | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS08                  | S      | 11/19/2020   | 9:50         | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS09                  | S      | 11/19/2020   | 11:19        | 1'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |
| FS10                  | S      | 11/19/2020   | 15:25        | 2'    | 1                | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | Composite        |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
1631 / 245.1 / 7470 / 7471 : Hg

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

|                              |                          |                |                              |                          |                |
|------------------------------|--------------------------|----------------|------------------------------|--------------------------|----------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time      | Relinquished by: (Signature) | Received by: (Signature) | Date/Time      |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 11/20/20 08:45 | <i>[Signature]</i>           | <i>[Signature]</i>       | 11-20-20 08:52 |



## Chain of Custody

Work Order No: 107866

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Page 2 of 2

|                  |                                        |                         |                                               |
|------------------|----------------------------------------|-------------------------|-----------------------------------------------|
| Project Manager: | Dan Moir                               | Bill to: (if different) | Kyle Litrell                                  |
| Company Name:    | LT Environmental, Inc., Permian office | Company Name:           | XTO Energy                                    |
| Address:         | 3300 North A Street                    | Address:                |                                               |
| City, State ZIP: | Midland, TX 79705                      | City, State ZIP:        |                                               |
| Phone:           | (432) 236-3849                         | Email:                  | Elliot.Lee@wsp.com / Tacoma.Morrissey@wsp.com |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Work Order Comments</b><br>Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC <input type="checkbox"/> Spentfund <input type="checkbox"/><br>State of Project: <input type="checkbox"/><br>Reporting Level: I <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/><br>Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/> |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                 |                            |             |                                     |
|-----------------|----------------------------|-------------|-------------------------------------|
| Project Name:   | Remuda South State 25 501H | Turn Around |                                     |
| Project Number: | 12920155                   | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |                            | Rush:       |                                     |
| Sampler's Name: | Elliot Lee                 | Due Date:   |                                     |

| ANALYSIS REQUEST     |                |                   |                      |  |  |  |  |  |  | Work Order Notes |
|----------------------|----------------|-------------------|----------------------|--|--|--|--|--|--|------------------|
| Number of Containers | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) |  |  |  |  |  |  |                  |

| SAMPLE RECEIPT        |            |                    |        | Turn Around |        |  |  |
|-----------------------|------------|--------------------|--------|-------------|--------|--|--|
| Temperature (°C):     |            | Temp Blank:        | Yes No | Wet Ice:    | Yes No |  |  |
| Received In tact:     | Yes No     | Thermometer ID     |        |             |        |  |  |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: |        |             |        |  |  |
| Sample Custody Seals: | Yes No N/A | Total Containers:  |        |             |        |  |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth |   |   |   |   |   |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|-------|---|---|---|---|---|--|--|--|--|--|
| FS11                  | S      | 11/19/2020   | 15:26        | 2'    | 1 | X | X | X | X |  |  |  |  |  |
| FS12                  | S      | 11/19/2020   | 11:41        | 1'    | 1 | X | X | X | X |  |  |  |  |  |
| FS13                  | S      | 11/19/2020   | 12:10        | 1'    | 1 | X | X | X | X |  |  |  |  |  |
| FS14                  | S      | 11/19/2020   | 15:27        | 2'    | 1 | X | X | X | X |  |  |  |  |  |
| FS15                  | S      | 11/19/2020   | 15:42        | 2'    | 1 | X | X | X | X |  |  |  |  |  |
| FS16                  | S      | 11/19/2020   | 13:41        | 1'    | 1 | X | X | X | X |  |  |  |  |  |
| FS17                  | S      | 11/19/2020   | 14:25        | 2'    | 1 | X | X | X | X |  |  |  |  |  |
| FS18                  | S      | 11/19/2020   | 16:31        | 2'    | 1 | X | X | X | X |  |  |  |  |  |
| FS19                  | S      | 11/19/2020   | 16:33        | 2'    | 1 | X | X | X | X |  |  |  |  |  |

|                                              |               |                                                                        |                                                                                   |
|----------------------------------------------|---------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Total 200.7 / 6010                           | 200.8 / 6020: | 8RCRA 13PPM Texas 11                                                   | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed |               | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | 1631 / 245.1 / 7470 / 7471 : Hg                                                   |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|                              |                          |                 |                              |                          |               |
|------------------------------|--------------------------|-----------------|------------------------------|--------------------------|---------------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time       | Relinquished by: (Signature) | Received by: (Signature) | Date/Time     |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 11/20/20 @ 0845 | <i>[Signature]</i>           | <i>[Signature]</i>       | 11-20-20 0857 |

# Eurofins Xenco, LLC

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11.20.2020 08.52.00 AM

Work Order #: 678616

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T\_NM\_007

| Sample Receipt Checklist                                | Comments |
|---------------------------------------------------------|----------|
| #1 *Temperature of cooler(s)?                           | 4.2      |
| #2 *Shipping container in good condition?               | Yes      |
| #3 *Samples received on ice?                            | Yes      |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes      |
| #5 Custody Seals intact on sample bottles?              | Yes      |
| #6 *Custody Seals Signed and dated?                     | Yes      |
| #7 *Chain of Custody present?                           | Yes      |
| #8 Any missing/extra samples?                           | No       |
| #9 Chain of Custody signed when relinquished/ received? | Yes      |
| #10 Chain of Custody agrees with sample labels/matrix?  | Yes      |
| #11 Container label(s) legible and intact?              | Yes      |
| #12 Samples in proper container/ bottle?                | Yes      |
| #13 Samples properly preserved?                         | Yes      |
| #14 Sample container(s) intact?                         | Yes      |
| #15 Sufficient sample amount for indicated test(s)?     | Yes      |
| #16 All samples received within hold time?              | Yes      |
| #17 Subcontract of sample(s)?                           | No       |
| #18 Water VOC samples have zero headspace?              | N/A      |

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 11.20.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.23.2020

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 14445

**CONDITIONS OF APPROVAL**

|                                                                        |        |                |              |
|------------------------------------------------------------------------|--------|----------------|--------------|
| Operator:                                                              | OGRID: | Action Number: | Action Type: |
| XTO ENERGY, INC 6401 Holiday Hill Road<br>Building #5 Midland, TX79707 | 5380   | 14445          | C-141        |

|              |                                                                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| OCD Reviewer | Condition                                                                                                                                         |
| rhamlet      | We have received your closure report and final C-141 for Incident #NRM2030836976 REMUDA SOUTH 25 STATE 501H, thank you. This closure is approved. |