ENSOLUM

December 10, 2025

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South Street, Francis Drive
Santa Fe, New Mexico 87505

Re: 2025 Remediation Work Plan
Remuda Basin Unit #001
Incident Number NAB1836137253
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *2025 Remediation Work Plan (2025 RWP)* to propose sampling activities to delineate impacted soil identified at the Remuda Basin Unit #001 (Site). On August 1, 2025, a *Closure Request* was submitted to the New Mexico Oil Conservation Division (NMOCD) to document delineation and remediation activities completed at the Site and request no further action (NFA) for Incident Number NAB1836137253. The remediation activities completed at the Site included excavation of impacted soil and installation of a protective liner to address impacted soil resulting from illegal dumping of produced water from an unknown party onto the Site. Sampling and remediation activities summarized in the *Closure Request* were completed as proposed in the *Remediation Work Plan* (*RWP*), dated March 31, 2020 and *Remediation Work Plan Addendum (Addendum),* dated March 6, 2023. The *Closure Request* was denied by the NMOCD on September 8, 2025. In the denial, NMOCD requested additional delineation soil sampling above the former drilling pit liner. The following *2025 RWP* proposes additional soil sampling in support of requesting NFA for Incident Number NAB1836137253.

SITE DESCRIPTION AND RELEASE BACKGROUND

The Site is located in Unit J, Section 24, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28866°, -103.93570°; Figure 1) and is associated with oil and gas exploration and production operations on land that is owned by the New Mexico State Land Office (NMSLO).

Impacts to soil at the Site were caused by illegal dumping of produced water from an unknown party, which was discovered on December 14, 2018. Approximately 305 barrels (bbls) of produced water, all of which were unrelated to operations at the Site, were released to the northern portion of the well pad and adjacent pasture. No freestanding fluids were recovered. Local authorities were notified and the event was assigned a police report by the Eddy County Sherriff's Office; however, the responsible party has not been identified to date. Approximately 35,500 square feet of pasture to the north and to the east of the northern edge of the pad were impacted. NMOCD was notified via email and subsequently assigned the release Incident Number NAB1836137253.

The original *RWP* was submitted to the NMOCD on March 31, 2020. The *RWP* outlined delineation soil sampling activities from 12 preliminary soil samples (SS01 through SS12) collected at depths of 0.5 feet below ground surface (bgs) to assess the extent of surface impacts and 11 potholes (PH01 through PH09, PH11 and PH12) advanced to depths ranging from 4 feet to 20 feet bgs to assess the vertical

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extent of impacted soil. Additionally, nine delineation boreholes (BH01 through BH09) were advanced to depths ranging from 1.5 feet to 8 feet bgs in the pasture outside the release extent via hand-auger. Soil was submitted for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), and chloride. Results of a karst survey and archeological survey were also summarized in the RWP. Based on the results of soil sampling and the karst and archeological surveys, the RWP proposed the following:

- Excavation of the top 4 feet of the release extent;
- Installation of a liner to restrict vertical migration of residual chloride concentrations;
- A variance to confirmation sampling frequency requirement from every 200 square feet to every 800 square feet for a composite sampling area; and
- Delineation of a historical reserve pit identified at the Site.

On June 25, 2020, portions of the RWP were approved; however, NMOCD denied the delineation of the reserve pit and requested further remedial actions.

Excavation activities proposed in the March 2020 *RWP* were completed between January and May of 2020. The spill area was excavated to depths ranging from approximately 2 feet to 8 feet bgs. Composite soil samples FS01 through FS67 were collected from the floor of the excavation at depths ranging from approximately 2 feet to 8 feet bgs. Composite soil samples SW01 through SW82 were collected from the sidewalls of the excavation at depths fluctuating from the ground surface to 8 feet bgs. Floor sampling locations FS13 through FS17, FS24 and FS26 reported chloride levels above Closure Criteria, so these areas were excavated to greater depths and resampled. Sidewall sampling locations SW02, SW04, SW17, SW20, SW36, SW38, SW39, SW65, SW68, SW74 through SW76, and SW78 detected chloride concentrations exceeding Closure Criteria and were also over excavated.

The overall excavation areal extent was approximately 116,683 square feet with roughly 22,475 cubic yards of impacted soil removed as a result of the illegal dumping from an unknown third party. Following the completion of excavation activities, a 20-mil poly liner was installed over approximately 53,412 square feet of land, which did not include the eastern portion of the spill area excavation since all confirmation floor and sidewall soil samples were compliant with Closure Criteria. The liner was installed at a depth of approximately 4 feet bgs along the southern and western portions of the excavation and up to the historical reserve pit. Chloride is still present at concentrations exceeding the Closure Criteria at and below the 4-foot depth; however, the installation of a liner will prevent the vertical migration of chloride downward, limiting the potential to encounter and impact groundwater.

Due to the presence of the historical reserve pit that overlaps with the illegal dumping release extent and in response to the NMOCD's denial comments of the *RWP*, the lateral extent of the historical reserve pit needed to be further defined. Potholes PH14 and PH15 were advanced on the presumed west side of the reserve pit. Pothole PH13 was also advanced south of the southern most excavation extent since confirmation sidewall soil samples SW01 and SW80 exceeded Closure Criteria for chloride. Samples collected from potholes PH13 through PH15 were compliant with chloride Closure Criteria, indicating the sample locations laterally defined the southern portion of the excavation (PH13) beyond the reserve pit and outside of the illegal dumping release extent to the west (PH14 and PH15). Six potholes (PH01 through PH06) were advanced in the vicinity of potholes PH13 through PH15 and sampled at the interval reporting the highest field screen and deepest depth (4 feet bgs) to ensure impacts were compliant with Closure Criteria. Benzene, BTEX, TPH-gasoline range organics (GRO) plus TPH-diesel range organics (DRO), and total TPH concentrations were compliant with the most stringent Table I Closure Criteria in pothole samples PH01 and PH03 through PH06. Chloride was detected in pothole PH02 at 4 feet bgs at a concentration that exceeded the Table I Closure Criteria; all other COCs were compliant with Table I Closure Criteria.

The *Addendum* was submitted to the NMOCD on March 6, 2023 summarizing the remedial activities completed since the *RWP* and proposing the following remedial actions to achieve closure of Incident Number NAB1836137253:

- Drill a borehole between PH07 and PH08 to vertically delineate impacts;
- Excavate the top 4 feet of soil above the reserved pit, sample the floor for chlorides only every 800 square feet, sample the sidewalls for all COCs every 800 square feet, and install a 20-mil poly liner over the reserve pit; and
- Excavate the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02, sample the floor for chlorides only every 800 square feet, sample the sidewalls for all COCs every 800 square feet, and cover impacts below 4 feet bgs with a liner.

On July 17, 2023, the NMOCD conditionally approved the *Addendum* with the following requirements.

- *A variance is approved for 800 ft2 confirmation sample size.*
- *A variance is approved for the spill area to be excavated to 4' and install a liner.*
- *The excavation of the top 4' of soil above the reserve pit is conditionally approved under the circumstance that clear separation between the overlying release and the underlying pit with clean field screening results correlating to the depth of the liner and caliche. XTO stated, "The recent release did not migrate through the liner or the caliche, both of which overlay the contents of the former pit". Please make sure this is evident on the Closure Report. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC.*

As mentioned in the NMOCD's conditional approval of the *Addendum*, two liners were observed in the reserve pit area during previous delineation work conducted immediately east of the former drilling pit. While drilling borehole BH08 in 2019, a liner, the top of the historical reserve pit, was noted at a depth of 1-foot bgs, and a second liner, the base of the historical reserve pit, was observed at approximately 12 feet bgs. Field screening reported chloride impacts from 1 foot to 12 feet bgs at BH08. In response to NMOCD's request for additional delineation of the historical reserve pit, the upper liner was exposed in seven different locations using a Hydrovac to determine its aerial footprint, competency, and depth beneath the ground surface. The upper liner was determined to be in good condition and was estimated to cover more than 31,500 square feet ranging in depth from 0.5 feet to approximately 3.5 feet bgs. An additional liner above the drilling pit was not necessary and therefore not installed as originally proposed in the *Addendum.* Impacted soil covering the historical reserve pit liner was carefully removed so as not to damage the liner. Since the liner was shallow across the top of the historical reserve pit and deeper at the edges, soil was also excavated from the north, west and south sides of the pit to a depth of 4 feet bgs. The area east of the reserve pit was previously excavated during 2020 remediation activities. Along the north, west and south sidewalls of the excavation at the historical reserve pit, 5-point composite samples SW83 through SW87 were collected from ground surface to 4 feet bgs. Floor samples were not collected from the reserve pit excavation due to the presence of the liner. The excavation completed above the reserve pit liner and on the north, west, and south sides of the historical reserve pit account for an overall excavation areal extent of approximately 41,500 square feet.

As proposed in the *Addendum,* impacted soil was excavated to a depth of 4 feet bgs in the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02. At the southern spill area excavation extent, composite floor samples FS68 and FS69 were collected at a depth of 4 feet bgs, and composite sidewall samples SW88 and SW89 were collected from ground surface to a depth of 4 feet bgs. An additional 1,130 square feet of impacted soil was removed from the southwest portion

of the original 2020 excavation. A total of 920 cubic yards of impacted soil were removed from both excavations and properly disposed of at the R360 landfill facility located in Carlsbad, New Mexico.

A sonic drilling rig was mobilized to the Site to collect samples for additional vertical delineation at the historical reserve pit and the spill area. Locations DP01 and DP02 were drilled east of previous pothole locations PH07 and PH08, and DP03 was advanced within the historical reserve pit. The three borings were drilled to 20 feet bgs and five discrete soil samples were collected at depths ranging from 5 feet to 20 feet bgs in each boring.

Following a review of the historical data collected at the Site, two previous composite sidewall samples (SW19 and SW66) collected from ground surface to 4 feet bgs reported chloride levels above Closure Criteria. These two sidewall locations are covered by a liner that was placed in the open excavation with the edges extending up the sidewalls. Since the sidewalls could not be easily resampled due to the presence of the liner, delineation soil samples were collected immediately outside of the liner footprint to ensure impacts had been addressed by the remedial techniques applied to this release. Using a core drill, borehole BH10 was advanced to a depth of 4 feet bgs northwest of sidewall sampling location SW66, and borehole BH11 was drilled to 4 feet bgs on the east side of previous sidewall sample SW19. Soil samples were collected at depths of 1 foot, 2 feet, 3 feet, and 4 feet bgs from BH10 and BH11. One composite floor sample (FS67) was identified with chloride concentrations exceeding Closure Criteria that was not covered by a liner. A 5-point composite sample was collected at a depth of 4 feet bgs from this portion of the backfilled excavation using a core drill to determine the current COC concentrations. Figure 2 illustrates the delineation soil sample locations, and Figure 3 depicts the excavation soil sample locations. Table 1 summarizes delineation and excavation soil sampling results. Note that samples covered with a liner are marked with an asterisk (*).

After additional excavation and soil sampling activities described above, laboratory analytical results confirmed the following:

- Impacted soil was defined laterally and vertically to the Closure Criteria at the spill area and the former reserve pit as requested by the NMOCD in the conditional approval correspondence.
- Composite sidewall samples collected from the excavation north, west, and south of the historical reserve pit reported levels compliant with Closure Criteria.
- Excavation soil sample results collected from the additional excavation completed in the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02 reported COC concentrations compliant with Closure Criteria.
- Resampling floor sample FS67 reported COC levels compliant with Closure Criteria.

The *Closure Request*, including the original RWP and Addendum as appendices, was submitted to the NMOCD on August 1, 2025 detailing delineation and remediation activities completed at the Site and requesting NFA for Incident Number NAB1836137253. The *Closure Request* is included as Appendix A.

On September 8, 2025, NMOCD denied the Closure Request for the following reason.

- *The soil above the pit liner will need to be vertically and horizontally delineated to verify all of the contaminated soil has been removed. These samples should be taken at surface and right above the upper liner (1 ft. below surface). If both the sample at surface and a depth of 1 ft. meet closure criteria, the samples can be used for both vertical and horizontal delineation. Also, include photographs of the entire remediated site prior to backfill. The photos should include the excavation and liner installation.*

CLOSURE CRITERIA

Based on the results of the Site Characterization, which was documented in the March 2020 *RWP*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg);
- BTEX: 50 mg/kg;
- TPH: 100 mg/kg; and
- Chloride: 600 mg/kg.

Potential Site receptors are identified on Figure 1.

PROPOSED REMEDIATION WORK PLAN

As discussed above, the soil above the historical drilling pit liner was carefully removed to not damage the liner during the 2023 excavation activities. A thin layer of soil remains above the liner that can be sampled for COCs; however, the soil thickness is less than 1-foot. To comply with NMOCD comments in the *Closure Request* denial correspondence, XTO proposes the following activities be completed at the Site:

- Discrete soil samples will be collected from nine locations above the historical drilling pit liner to adequately characterize the shallow soil. Figure 4 illustrates the proposed sampling locations. If soil above the liner is 1-foot thick or greater, additional discrete samples will be collected for every foot of soil above the liner. All soil samples will be field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil samples will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The samples will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX using United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following Standard Method 4500. The sampling locations will be mapped utilizing a handheld Global Positioning System (GPS) unit.

- If analytical results report COC concentrations exceeding Closure Criteria in the thin layer of soil present above the historical drilling pit liner, the shallow layer of soil will be removed above the liner and properly disposed of offsite.

- Photographs will be taken of the entire remediated site prior to backfill. Photographs of the excavation and liner installation activities in addition to photographs of the current Site conditions will be submitted to the NMOCD in a *Closure Request Addendum*.

XTO will backfill the area of the historical pit with at least 4 feet of topsoil and recontour the area to match surrounding conditions following the approval of NFA for Incident Number NAB1836137253. The area will be reseeded with an NMSLO approved seed mixture, and the area will be assessed for erosion control if necessary. Reclamation plans will be discussed in more detail in a *Reclamation Plan* and/or *Reclamation Activity Report* submitted following approval of a *Closure Request Addendum*.

Excavation of impacted soil and liner installations have mitigated impacts at this Site. Depth to groundwater has been determined to be just over 50 feet bgs, and the Site has been remediated to the strictest Closure Criteria. XTO believes these remedial actions are protective of human health, the

environment, and groundwater. Following the analysis of the soil present above the historical drilling pit liner and submission of photographs documenting remediation activities completed at the Site, XTO will again request closure for Incident Number NAB1836137253.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Katherine Kahn, P.G. (licensed in WY)
Senior Managing Geologist

Tacoma Morrissey, P.G. (licensed in TX)
Associate Principal

cc: Dale Woodall, XTO
Richard Kotzur, XTO
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Liner and Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Proposed Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	August 1, 2025 *Closure Request*

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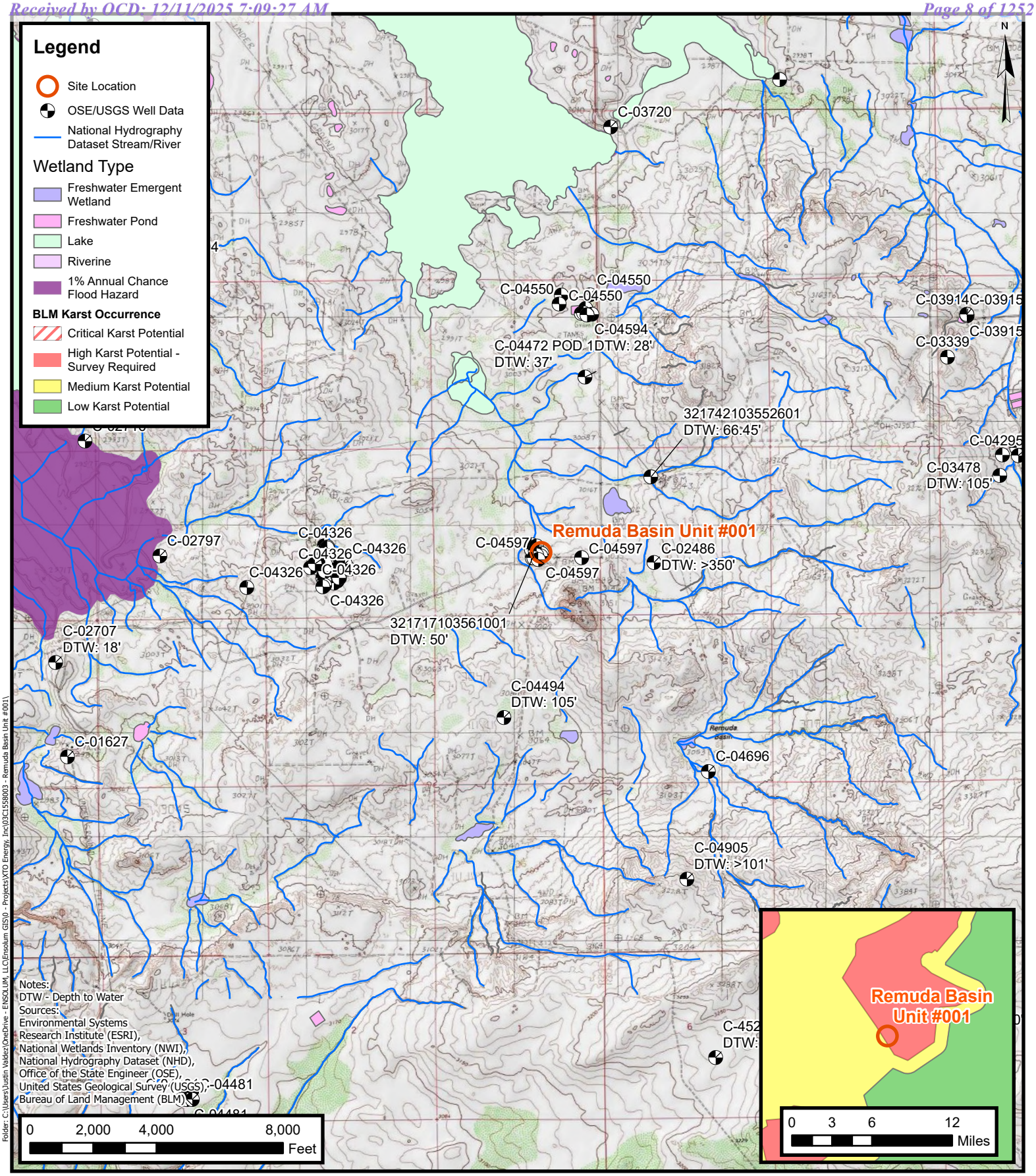
FIGURES



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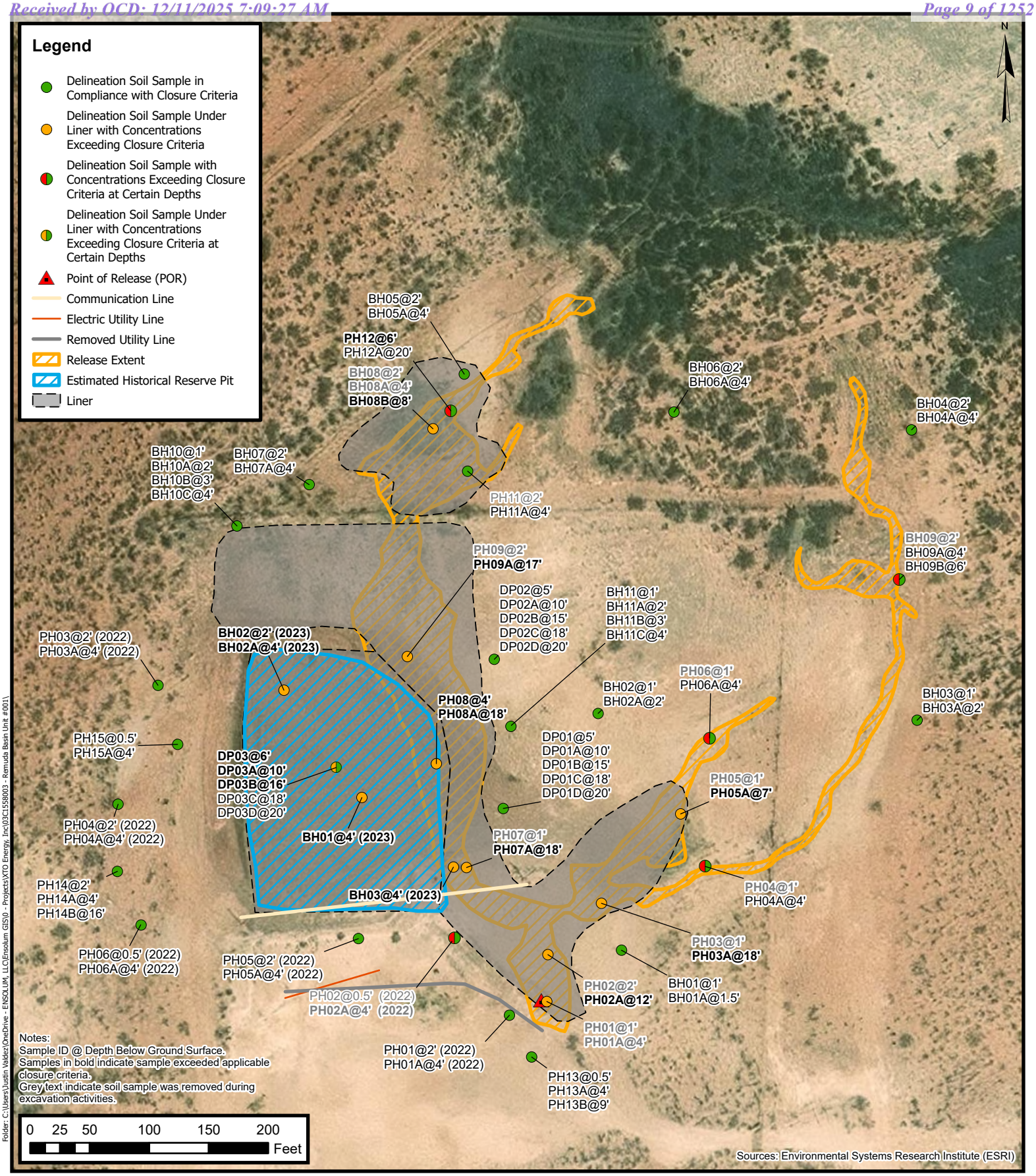
Site Location Map

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 1



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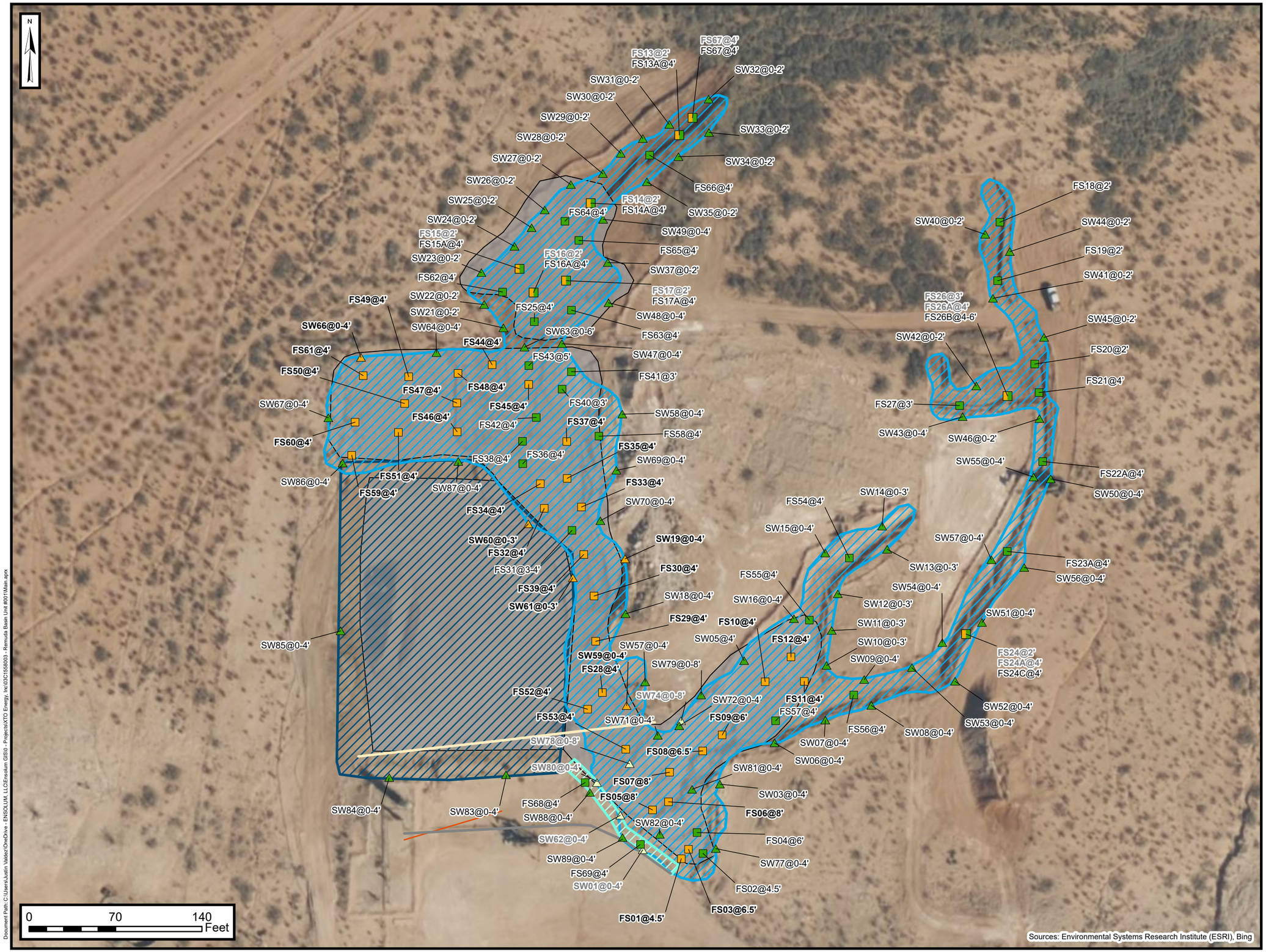
Liner and Delineation Soil Sample Locations

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 2



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Legend

- Excavation Floor Sample in Compliance with Closure Critera
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Previously Exceeding Closure Criteria
- Excavation Floor Soil Sample Under Liner with Concentrations Exceeding Closure Criteria
- Excavation Sidewall Soil Sample Under Liner with Concentrations Exceeding Closure Criteria
- Excavation Sidewall Sample - Removed
- Communication Line
- Electric Utility Line
- Removed Utility Line
- 2023 Excavation Extent
- Excavation Extent
- Reserve Pit Excavation Perimeter
- Liner Extent

Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.

Excavation Soil Sample Locations

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 3

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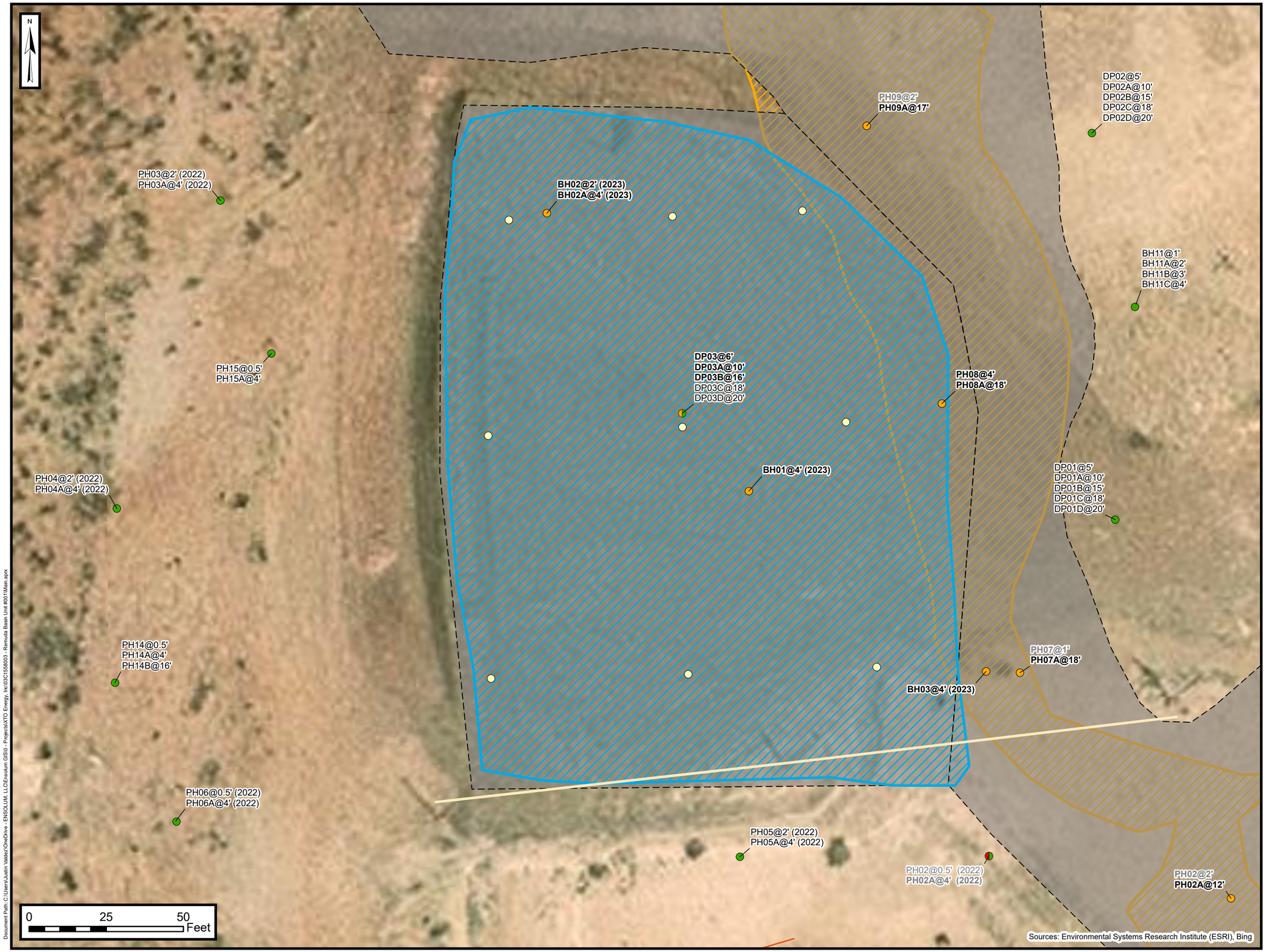

Legend

- Proposed Soil Sample Location
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample Under Liner with Concentrations Exceeding Closure Criteria at Certain Depths
- Delineation Soil Sample Under Liner with Concentrations Exceeding Closure Criteria
- Communication Line
- Electric Utility Line
- Estimated Historical Reserve Pit
- Liner
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.

Proposed Soil Sample Locations

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 4

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TABLE

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Soil Samples										
~~SS01~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~70.3~~	~~<49.8~~	~~70.3~~	~~70.3~~	~~**4,300**~~
~~SS02~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**6,170**~~
~~SS03~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**7,900**~~
~~SS04~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**4,910**~~
~~SS05~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**4,420**~~
~~SS06~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**3,890**~~
~~SS07~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**4,660**~~
~~SS08~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**7,470**~~
~~SS09~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**5,500**~~
~~SS10~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**7,780**~~
~~SS11~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~**2,110**~~
~~SS12~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**5,650**~~
Delineation Soil Samples										
BH01	06/17/2019	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	18.4
BH01A	06/17/2019	1.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.4
BH02	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
BH02A	06/17/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	13.7
BH03	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH03A	06/17/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
BH04	06/18/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH04A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	16.9

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
BH05	06/18/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH05A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	233
BH06	06/18/2019	2	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	7.00
BH06A	06/18/2019	4	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	5.14
BH07	06/18/2019	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	54.7
BH07A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	144
~~BH08~~	~~06/19/2019~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,280**~~
~~BH08A~~	~~06/19/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,160**~~
BH08B*	06/19/2019	8	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**619**
~~BH09~~	~~06/19/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,080**~~
BH09A	06/19/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH09B	06/19/2019	6	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	<25.2
BH10	05/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
BH10A	05/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH10B	05/13/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH10C	05/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH11	05/13/2025	1	<0.050	<0.300	<10.0	76.7	<10.0	76.7	76.7	64.0
BH11A	05/13/2025	2	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	32.0
BH11B	05/13/2025	3	<0.050	<0.300	<10.0	28.2	<10.0	28.2	28.2	<16.0
BH11C	05/13/2025	4	<0.050	<0.300	<10.0	21.8	<10.0	21.8	21.8	96.0
BH01*	11/29/2023	4	<0.00201	<0.00402	<50.4	504	<50.4	504	**504**	**10,200**
BH02*	11/29/2023	2	<0.00201	<0.00402	<50.5	109	<50.5	109	**109**	**9,060**

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Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BH02A*	11/29/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**3,930**
BH03*	11/29/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	**5,730**
~~PH01~~	~~06/13/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,720**~~
~~PH01A~~	~~06/13/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,750**~~
~~PH02~~	~~06/13/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,840**~~
PH02A*	06/13/2019	12	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**4,720**
~~PH03~~	~~06/13/2019~~	~~1~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,420**~~
PH03A*	06/14/2019	18	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**811**
~~PH04~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**8,260**~~
PH04A	06/14/2019	4	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	587
~~PH05~~	~~06/14/2019~~	~~1~~	~~<0.00201~~	~~<0.00201~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**3,380**~~
PH05A*	06/14/2019	7	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**903**
~~PH06~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**904**~~
PH06A	06/14/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
~~PH07~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**7,680**~~
PH07A*	06/14/2019	18	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**857**
PH08*	06/17/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**8,860**
PH08A*	06/18/2019	18	<0.00199	<0.00199	<15.0	20.0	<15.0	20.0	20.0	**4,410**
~~PH09~~	~~06/17/2019~~	~~2~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~41.6~~	~~<15.0~~	~~41.6~~	~~41.6~~	~~**1,800**~~
PH09A*	06/18/2019	17	<0.00200	<0.00200	<15.0	44.9	20.5	65.4	44.9	**1,210**
~~PH11~~	~~01/28/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~332~~
PH11A*	01/28/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	475

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Eddy County, New Mexico

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH12*	02/27/2020	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,480**
PH12A*	02/27/2020	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.4
PH13	04/20/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	485
PH13A	04/20/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	180
PH13B	04/20/2020	9.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	69.8
PH14	04/21/2020	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390
PH14A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	330
PH14B	04/21/2020	16.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	62.6
PH15	04/21/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	301
PH15A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	116
PH01	05/11/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	245
PH01A	05/11/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	41.6
~~PH02~~	~~05/11/2022~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~204~~
~~PH02A~~	~~05/11/2022~~	~~4~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**701**~~
PH03	05/11/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	207
PH03A	05/11/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	87.8
PH04	06/16/2022	2	<0.000389	0.00361	44.4	37.7	<14.9	82.1	82.1	110
PH04A	06/16/2022	4	<0.000386	<0.00101	36.8	30.9	<15.0	67.7	67.7	403
PH05	06/16/2022	2	<0.000385	0.0024	37.2	33.2	<15.0	70.4	70.4	504
PH05A	06/16/2022	4	<0.000383	0.00373	42	31.6	<15.0	73.6	73.6	384
PH06	06/16/2022	0.5	0.00365	0.0432	37.3	25.5	<15.0	62.8	62.8	270
PH06A	06/16/2022	4	<0.000384	<0.00101	<15.0	27.4	<15.0	27.4	27.4	165

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
DP01	11/20/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP01A	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
DP01B	11/20/2024	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
DP01C	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP01D	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP02	11/20/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP02A	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DP02B	11/20/2024	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DP02C	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
DP02D	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
DP03*	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**10,400**
DP03A*	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**5,860**
DP03B*	11/20/2024	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,040**
DP03C*	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DP03D*	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Excavation Floor Samples										
FS01*	01/13/2020	4.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**876**
FS02*	01/13/2020	4.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	528
FS03*	01/14/2020	6.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**635**
FS04*	01/14/2020	6	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	450
FS05*	01/14/2020	8	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	**713**
FS06*	01/14/2020	8	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	**2,630**

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS07*	01/14/2020	8	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	**2,210**
FS08*	01/14/2020	6.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**638**
FS09*	01/14/2020	6	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	**1,710**
FS10*	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,580**
FS11*	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,930**
FS12*	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
~~FS13~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~**864**~~
FS13A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.2
~~FS14~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,680**~~
FS14A*	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	143
~~FS15~~	~~02/19/2020~~	~~2~~	~~<0.00198~~	~~<0.00198~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,340**~~
FS15A*	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	249
~~FS16~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,880**~~
FS16A*	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	262
~~FS17~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,450**~~
FS17A*	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	344
FS18	02/19/2020	2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	99.0
FS19	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	141
FS20	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	428
FS21	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	394
FS22A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170
FS23A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	381

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
~~FS24~~	~~02/21/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**696**~~
~~FS24A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**740**~~
FS24C	10/04/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104
FS25*	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	334
~~FS26~~	~~03/06/2020~~	~~3~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**981**~~
~~FS26A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,390**~~
FS26B	04/09/2020	4 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.8
FS27	03/06/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	288
FS28*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**7,050**
FS29*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,930**
FS30*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,020**
FS31*	03/09/2020	3 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	415
FS32*	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,900**
FS33*	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS34*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,700**
FS35*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**650**
FS36*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	203
FS37*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,160**
FS38*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	584
FS39*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,980**
FS40*	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	576
FS41*	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	375

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS42*	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	550
FS43*	03/09/2020	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64.8
FS44*	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,710**
FS45*	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,870**
FS46*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,010**
FS47*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,160**
FS48*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,450**
FS49*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS50*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,520**
FS51*	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,650**
FS52*	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,130**
FS53*	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,310**
FS54	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.1
FS55*	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37.5
FS56	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.6
FS57*	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.6
FS58	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	373
FS59*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,900**
FS60*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,230**
FS61*	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
FS62*	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118
FS63*	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	237

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS64*	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
FS65*	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	325
FS66	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	299
FS67	04/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,290**
FS67	05/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS68	12/14/2023	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	260
FS69	12/14/2023	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	154
Excavation Sidewall Samples										
~~SW01~~	~~01/13/2020~~	~~0 - 4~~	~~<0.00200~~	~~<0.00200~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,520**~~
~~SW02~~	~~01/13/2020~~	~~0 - 4~~	~~<0.00198~~	~~<0.00198~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**717**~~
SW03	01/14/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	273
~~SW04~~	~~01/14/2020~~	~~0 - 5~~	~~<0.00201~~	~~<0.00201~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**744**~~
SW05*	02/03/2020	0 - 4	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	222
SW06	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	101
SW07	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	22.7
SW08	02/03/2020	0 - 4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	255
SW09	02/03/2020	0 - 4	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	40.6
SW10	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	102
SW11	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	21.0
SW12	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	419
SW13	02/03/2020	0 - 3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	136
SW14	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	115

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TABLE 1
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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW15	02/03/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	67.6
SW16*	02/03/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	135
~~SW17~~	~~02/04/2020~~	~~0 - 3~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~334~~
SW18	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	575
SW19*	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**654**
~~SW20~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**660**~~
SW21	02/18/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	101
SW22	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	177
SW23*	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	343
SW24*	02/14/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	559
SW25*	02/14/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	529
SW26*	02/18/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	407
SW27*	02/18/2020	0 - 2	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	48.7
SW28	02/18/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	222
SW29	02/18/2020	0 - 2	<0.0000199	<0.0000199	<50.1	<50.1	<50.1	<50.1	<50.1	464
SW30	02/19/2020	0 - 2	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	523
SW31	02/19/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	36.0
SW32	02/19/2020	0 - 2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	194
SW33	02/19/2020	0 - 2	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	133
SW34	02/19/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	82.9
SW35	02/19/2020	0 - 2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	82.6
~~SW36~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00199~~	~~<0.00199~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**1,350**~~

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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW37*	02/19/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	356
~~SW38~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00198~~	~~<0.00198~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~1,070~~
~~SW39~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00200~~	~~<0.00200~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~946~~
SW40	02/19/2020	0 - 2	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<9.94
SW41	02/19/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	102
SW42	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.3
SW43	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	351
SW44	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.1
SW45	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	154
SW46	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.6
SW47	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400
SW48*	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	524
SW49*	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82.0
SW50	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
SW51	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	368
SW52	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	176
SW53	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	442
SW54	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	153
SW55	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	527
SW56	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	196
SW57	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	459
SW58	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259

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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW59*	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,650**
SW60*	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,380**
SW61*	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,400**
~~SW62~~	~~05/07/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**5,910**~~
SW63	03/19/2020	0 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58.7
SW64*	03/19/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	498
~~SW65~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**628**~~
SW66*	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,140**
SW67*	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	371
~~SW68~~	~~03/24/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,140**~~
SW69	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	127
SW70*	03/26/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148
SW71*	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	221
SW72*	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	387
~~SW74~~	~~03/27/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**738**~~
~~SW75~~	~~03/27/2020~~	~~0 - 6~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**797**~~
~~SW76~~	~~04/06/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**677**~~
SW77*	04/08/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	276
~~SW78~~	~~04/08/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,070**~~
SW79*	04/09/2020	0 - 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	235
~~SW80~~	~~04/09/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**963**~~
SW81*	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	242

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TABLE 1
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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SW82*	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259
SW83	12/01/2023	0 - 4	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	53.3
SW84	12/01/2023	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	54.4
SW85	12/06/2023	0 - 4	<0.00202	<0.00404	<49.5	<49.5	<49.5	<49.5	<49.5	186
SW86	12/06/2023	0 - 4	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	185
SW87	12/06/2023	0 - 4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	189
SW88	12/14/2023	0 - 4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	404
SW89	12/14/2023	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	326

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure
N/A: not analyzed
*: sample location covered with liner

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
~~Gray~~ text indicates sample location has been excavated and is no longer present
Gray text indicates location has been resampled

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APPENDIX A

August 1, 2025
Closure Request

ENSOLUM

August 1, 2025

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South Street, Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Remuda Basin Unit #001
Incident Number NAB1836137253
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document delineation and remediation activities completed at the Remuda Basin Unit #001 (Site). The purpose of the remediation activities, including excavation of impacted soil and installation of a protective liner, was to address impacted soil resulting from illegal dumping of produced water from an unknown party onto the Site. A *Remediation Work Plan* (*RWP*), dated March 31, 2020 and *Remediation Work Plan Addendum (Addendum),* dated March 6, 2023 were submitted to the New Mexico Oil Conservation Division (NMOCD) summarizing previous remediation and delineation work, proposing additional delineation sampling, and requesting three variances for the Site. A sampling variance was approved to collect samples using an 800 square foot confirmation sample size. A second variance was approved to excavate the spill area to 4 feet below ground surface (bgs) and cover remaining impacts with a liner prior to backfill. A third variance was conditionally approved to excavate the top 4 feet of the historical reserve pit providing clear separation is documented between the overlying release and the underlying pit that is covered with a liner. Based on the additional delineation sampling activities described below, XTO is requesting no further action (NFA) for Incident Number NAB1836137253.

RELEASE BACKGROUND

The Site is located in Unit J, Section 24, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28866°, -103.93570°) and is associated with oil and gas exploration and production operations on land that is owned by the New Mexico State Land Office (NMSLO).

Impacts to soil at the Site were caused by illegal dumping of produced water from an unknown party, which was discovered on December 14, 2018. Approximately 305 barrels (bbls) of produced water, all of which were unrelated to operations at the Site, were released to the northern portion of the well pad and adjacent pasture. No freestanding fluids were recovered. Local authorities were notified and the event was assigned a police report by the Eddy County Sherriff's Office; however, the responsible party has not been identified to date. Approximately 35,500 square feet of pasture to the north and to the east of the northern edge of the pad were impacted. NMOCD was notified via email and subsequently assigned the release Incident Number NAB1836137253.

The original *RWP* was submitted to the NMOCD on March 31, 2020 (Appendix A). The *RWP* outlined delineation soil sampling activities from 12 preliminary soil samples (SS01 through SS12) collected at

depths of 0.5 feet bgs to assess the extent of surface impacts and 11 potholes (PH01 through PH09, PH11 and PH12) advanced to depths ranging from 4 feet to 20 feet bgs to assess the vertical extent of impacted soil. Additionally, nine delineation boreholes (BH01 through BH09) were advanced to depths ranging from 1.5 feet to 8 feet bgs in the pasture outside the release extent via hand-auger. Results of a karst survey and archeological survey were also summarized in the *RWP*. Based on the results of soil sampling and the karst and archeological surveys, the *RWP* proposed the following:

- Excavation of the top 4 feet of the release extent;
- Installation of a liner to restrict vertical migration of residual chloride concentrations;
- A variance to confirmation sampling frequency requirement from every 200 square feet to every 800 square feet for a composite sampling area; and
- Delineation of a historical reserve pit identified at the Site.

On June 25, 2020, portions of the *RWP* were approved; however, NMOCD denied the delineation of the reserve pit and requested further remedial actions.

The *Addendum* was submitted to the NMOCD on March 6, 2023 to document the status of remedial activities and propose additional remedial actions for the Site. Further excavation activities put forward in the March 2020 *RWP* were completed between January and May of 2020. The spill area was excavated to depths ranging from approximately 2 feet to 8 feet bgs. Composite soil samples FS01 through FS67 were collected from the floor of the excavation at depths ranging from approximately 2 feet to 8 feet bgs. Composite soil samples SW01 through SW82 were collected from the sidewalls of the excavation at depths fluctuating from the ground surface to 8 feet bgs. Soil samples were analyzed for the following chemicals of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (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. Floor sampling locations FS13 through FS17, FS24 and FS26 reported chloride levels above Closure Criteria, so these areas were excavated to greater depths and resampled. Sidewall sampling locations SW02, SW04, SW17, SW20, SW36, SW38, SW39, SW65, SW68, SW74 through SW76, and SW78 detected chloride concentrations exceeding Closure Criteria and were also overexcavated.

The overall excavation areal extent was approximately 116,683 square feet with approximately 22,475 cubic yards of impacted soil removed as a result of the illegal dumping from an unknown third party. Following the completion of excavation activities, a 20-mil poly liner was installed over approximately 53,412 square feet of land, which did not include the eastern portion of the spill area excavation since all confirmation floor and sidewall soil samples were in compliance with the Closure Criteria. The liner was installed at approximately 4 feet bgs along the southern and western portions of the excavation and up to the historical reserve pit. Chloride is still present at concentrations exceeding the Closure Criteria at and below the 4-foot depth; however, the installation of a liner will prevent the vertical migration of chloride downward, limiting the potential to encounter and impact groundwater.

Due to the presence of a historical reserve pit that overlaps with the illegal dumping release extent, the lateral extent of the historical reserve pit needed to be defined. Potholes PH14 and PH15 were advanced on the presumed west side of the reserve pit. Pothole PH13 was also advanced south of the southern most excavation extent since confirmation sidewall soil samples SW01 and SW80 exceeded the Closure Criteria for chloride. Potholes PH13 through PH15 were only analyzed for chlorides and results were in compliance with the Closure Criteria, indicating the sample locations laterally defined the southern portion of the excavation (PH13) beyond the reserve pit and outside of the illegal dumping release extent to the west (PH14 and PH15). Six potholes (PH01 through PH06) were advanced in the vicinty of potholes PH13 through PH15 and sampled at the interval reporting the highest field screen and deepest

depth (4 feet bgs) for all COCs to ensure impacts were in compliance with the Closure Criteria. Benzene, BTEX, TPH-GRO/TPH-DRO, and TPH concentrations were compliant with the most stringent Table I Closure Criteria in pothole samples PH01 and PH03 through PH06. Chloride was detected in pothole PH02 at 4 feet bgs at a concentration that exceeded the Table I Closure Criteria; all other COCs were compliant with Table I Closure Criteria.

XTO proposed the following remedial actions to achieve closure of Incident Number NAB1836137253:

- Drill a borehole between PH07 and PH08 to vertically delineate impacts;
- Excavate the top 4 feet of soil above the reserved pit, sample the floor for chlorides only every 800 square feet, sample the sidewalls for all COCs every 800 square feet, and install a 20-mil poly liner over the reserve pit; and
- Excavate the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02, sample the floor for chlorides only every 800 square feet, sample the sidewalls for all COCs every 800 square feet, and cover impacts below 4 feet bgs with a liner.

The *Addendum* is attached to this *Closure Request* as Appendix B.

On July 17, 2023, the NMOCD conditionally approved the *Addendum* with the following requirements.

- *A variance is approved for 800 ft2 confirmation sample size.*
- *A variance is approved for the spill area to be excavated to 4' and install a liner.*
- *The excavation of the top 4' of soil above the reserve pit is conditionally approved under the circumstance that clear separation between the overlying release and the underlying pit with clean field screening results correlating to the depth of the liner and caliche. XTO stated, "The recent release did not migrate through the liner or the caliche, both of which overlay the contents of the former pit". Please make sure this is evident on the Closure Report. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC.*

CLOSURE CRITERIA

Based on the results of the Site Characterization, which was documented in the March 2020 *RWP*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- BTEX: 50 mg/kg
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

A Class III Cultural Resource Inventory was conducted at the Site in May 2019. The investigation reported a finding of No Historic Properties Affected for the Site. However, fencing was installed to the northwest of the area of potential effect (APE) to ensure an eligible but unevaluated Site was not encroached upon. The signed New Mexico Cultural Resource Information System (NMCRIS)

Investigation Abstract Form prepared for the Site under NMCRIS No. 143058 was discussed in the *RWP* and is included as Appendix C.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- The Site is not located within the historical range of the Lesser Prairie-Chicken habitat or the Dunes Sage Brush Lizard habitat.
- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no potential critical habitats at the Site. Threatened or endangered birds, clams, and insects are potentially present in the area near the Site.
    - Threatened and non-essential experimental population bird species (Piping Plover and Northern Aplomado Falcon, respectively) are potentially present in the area near the Site.
    - Endangered clam species (Texas Hornshell) are potentially found in the area near the Site.
    - Proposed threatened insect species (Monarch Butterfly) are possibly found in the area near the Site.
- The Site is located in a high-potential karst area, depth to groundwater is documented to be just over 50 feet bgs, and there is an intermittent dry wash within 300 feet of the original release extent. As such, the strictest Closure Criteria was applied to the Site.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type as Reeves-Gypsum land complex across the majority of the Site and Largo loam in the northwest area of the Site. Largo loam reports an erosion factor (K) of 0.49 classifying it as a sensitive soil. Eddy County is a semi-arid climate with relatively low precipitation rates (10.8 inches per year according to weatherworld.com) so erosion from water runoff is minimal.

ADDITIONAL DELINEATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite the week of November 27, 2023 to address impacts at the historical reserve pit as discussed in the NMOCD conditional approval correspondence. Two liners were observed in the reserve pit area during previous delineation work completed immediately east of the pit. While drilling borehole BH08 in 2019, a liner was noted at a depth of 1-foot bgs, and a second liner was observed at approximately 12 feet bgs. Field screening reported chloride impacts from 1 foot to 12 feet bgs at BH08. In response to NMOCD's request for additional delineation of the historical reserve pit, the upper liner was exposed in seven different locations using a Hydrovac to determine its aerial footprint, competency, and depth beneath the ground surface. The upper liner was determined to be in good condition and was estimated to cover more than 31,500 square feet ranging in depth from 0.5 feet to approximately 3.5 feet bgs. The liner locations covering the historical reserve pit as well as the spill area at the Site are illustrated on Figure 2. Three boreholes (BH01 through BH03) were advanced to 4 feet bgs within the historical reserve pit liner footprint, and discrete soil samples were collected beneath the liner to determine impacts from the historical reserve pit not related to the 2018 illegal dumping of produced water. Soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Samples were collected from depths of 2 feet and/or 4 feet bgs.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported, under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of the COCs utilizing the methods described above.

On November 20, 2024, a sonic drilling rig was mobilized to the Site to collect samples for additional vertical delineation at the historical reserve pit and the spill area. Locations DP01 and DP02 were drilled east of previous pothole locations PH07 and PH08, and DP03 was advanced within the historical reserve pit. The three borings were drilled to 20 feet bgs and five discrete soil samples were collected at depths ranging from 5 feet to 20 feet bgs in each boring. Soil was field screened for VOCs and chloride using methods described above. Lithology and field screening results were recorded on boring logs that are included in Appendix D.

Following a review of the historical data collected at the Site, two previous composite sidewall samples (SW19 and SW66) collected from ground surface to 4 feet bgs reported chloride levels above Closure Criteria. These two sidewall locations are covered by a liner that was placed in the open excavation with the edges extending up the sidewalls. Since the sidewalls could not be easily resampled due to the liner, delineation soil samples were collected immediately outside of the liner footprint to ensure impacts had been addressed by the remedial techniques applied to this release. Using a core drill, on May 13, 2025, borehole BH10 was advanced to a depth of 4 feet bgs northwest of sidewall sampling location SW66, and borehole BH11 was drilled to 4 feet bgs on the east side of previous sidewall sample SW19. Soil samples were collected at depths of 1 foot, 2 feet, 3 feet, and 4 feet bgs from BH10 and BH11.

Soil from the 2024 and 2025 field events was field screened and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico using methods described above for BTEX and TPH and SM4500 for chloride. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photograph log of the soil sampling activities is included in Appendix E. NMOCD sampling notification correspondence is attached in Appendix F.

ADDITIONAL EXCAVATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

In December 2023, impacted soil covering the historical reserve pit liner was carefully removed so as not to damage the liner. Since the liner was shallow across the top of the historical reserve pit and deeper at the edges, soil was also excavated from the north, west and south sides of the pit to a depth of 4 feet bgs. The area east of the reserve pit was previously excavated during 2020 remediation activities. As proposed in the *Addendum,* impacted soil was excavated to a depth of 4 feet bgs in the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02. Excavation activities were performed using an excavator, front-end loader and transport vehicles.

Soil was field screened for VOCs and chloride using methods described above to direct excavation activities. Following excavation activities, 5-point composite samples were collected from the sidewalls of the excavations. Along the north, west and south sidewalls of the excavation at the historical reserve pit, composite samples SW83 through SW87 were collected from ground surface to 4 feet bgs. Floor samples were not collected from the reserve pit excavation due to the presence of the liner. At the southern spill area excavation extent, composite floor samples FS68 and FS69 were collected at a depth of 4 feet bgs, and composite sidewall samples SW88 and SW89 were collected from ground surface to a depth of 4 feet bgs. 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. The samples were submitted to Eurofins for analysis using the procedures described above.

The excavation completed above the reserve pit liner and on the north, west, and south sides of the historical reserve pit account for an overall excavation areal extent of approximately 41,500 square feet.

An additional 1,130 square feet of impacted soil was removed from the southwest portion of the original 2020 excavation. A total of 920 cubic yards of impacted soil were removed and properly disposed of at the R360 landfill facility located in Carlsbad, New Mexico.

The excavation extents and excavation soil sample locations were mapped utilizing a handheld GPS and are illustrated on Figure 3. After observing the buried liner covering the historical reserve pit in numerous locations, it was determined to be in good working condition and capable of preventing further migration of chloride impacts following precipitation events. An additional liner was not necessary and therefore not installed as originally proposed in the *Addendum.* Following approval of the *Closure Request*, XTO will backfill the area of the historical pit with at least 4 feet of topsoil and recontour the area to match surrounding conditions. The area will be reseeded with an NMSLO approved seed mixture and the area will be assessed for erosion control if necessary.

Following a review of the historical data collected at the Site, one composite floor sample (FS67) was identified with chloride concentrations exceeding Closure Criteria that was not covered by a liner. On May 13, 2025, a 5-point composite sample was collected at a depth of 4 feet bgs from this portion of the backfilled excavation using a core drill to determine the current COC concentrations. The sample was mapped, field screened, and submitted to Cardinal for analysis using the procedures described above.

LABORATORY ANALYTICAL RESULTS

After additional excavation and soil sampling activities described above, laboratory analytical results confirm the following.

- Impacted soil was defined laterally and vertically to the Closure Criteria at the spill area and the former reserve pit as requested by the NMOCD in the conditional approval correspondence.
- Composite sidewall samples collected from the excavation north, west, and south of the historical reserve pit reported levels in compliance with the Closure Criteria.
- Excavation soil sample results collected from the additional excavation completed in the vicinity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02 reported COC concentrations in compliance with the Closure Criteria.
- Resampling of floor sample FS67 reported COC levels in compliance with the Closure Criteria.

The current and historical laboratory analytical results are summarized on Table 1, and the recent laboratory analytical reports are included in Appendix G.

CLOSURE REQUEST

Soil delineation sampling, excavation activities, and confirmation soil sampling were conducted at the Site to address the illegal dumping of produced water from an unknown third-party discovered on December 14, 2018. Following the excavation of the spill area to a depth of 4 feet bgs, a 20-mil poly liner was installed over approximately 53,412 square feet of land reporting chloride levels exceeding the Closure Criteria to prevent migration from precipitation events. The historical reserve pit encountered immediately west of the spill area during investigation activities at the Site was determined to be covered with a liner. In accordance with discussions with the NMOCD, soil above the historical reserve pit liner was removed, and the liner was determined to be in good working condition. The north, west, and south borders of the reserve pit were excavated to 4 feet bgs. Sidewall samples report that impacts at the reserve pit were delineated laterally, and boreholes drilled within the reserve pit vertically define impacts to the top 18 feet of soil. Laboratory analytical results report COC concentrations from delineation samples surrounding all excavated areas in compliance with the Closure Criteria. The overall areal extent of the excavations was approximately 159,313 square feet with roughly 23,395 cubic yards of impacted soil removed from the Site. Based on soil sample analytical results, no further remediation is required at this Site. Following approval of the *Closure Request*, XTO will backfill the area of the historical pit with at least 4 feet of topsoil and recontour the area to match surrounding conditions. The area will be reseeded with an NMSLO approved seed mixture and the area will be assessed for erosion control if necessary.

Excavation of impacted soil and liner installations have mitigated impacts at this Site. Depth to groundwater has been determined to be just over 50 feet bgs, and the Site has been remediated to the strictest Closure Criteria. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAB1836137253.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Katherine Kahn, P.G.
Senior Managing Geologist

Tacoma Morrissey, M.S.
Associate Principal

cc: Dale Woodall, XTO
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Liner and Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	March 31, 2020 *Remediation Work Plan*
Appendix B	March 6, 2023 *Remediation Work Plan Addendum*
Appendix C	New Mexico Cultural Resource Information System Investigation Abstract Form

Appendix D Boring Logs (2024)
Appendix E Photographic Log (2023-2025)
Appendix F NMOCD Notifications (2023)
Appendix G Laboratory Analytical Reports & Chain-of-Custody Documentation (2023-2025)

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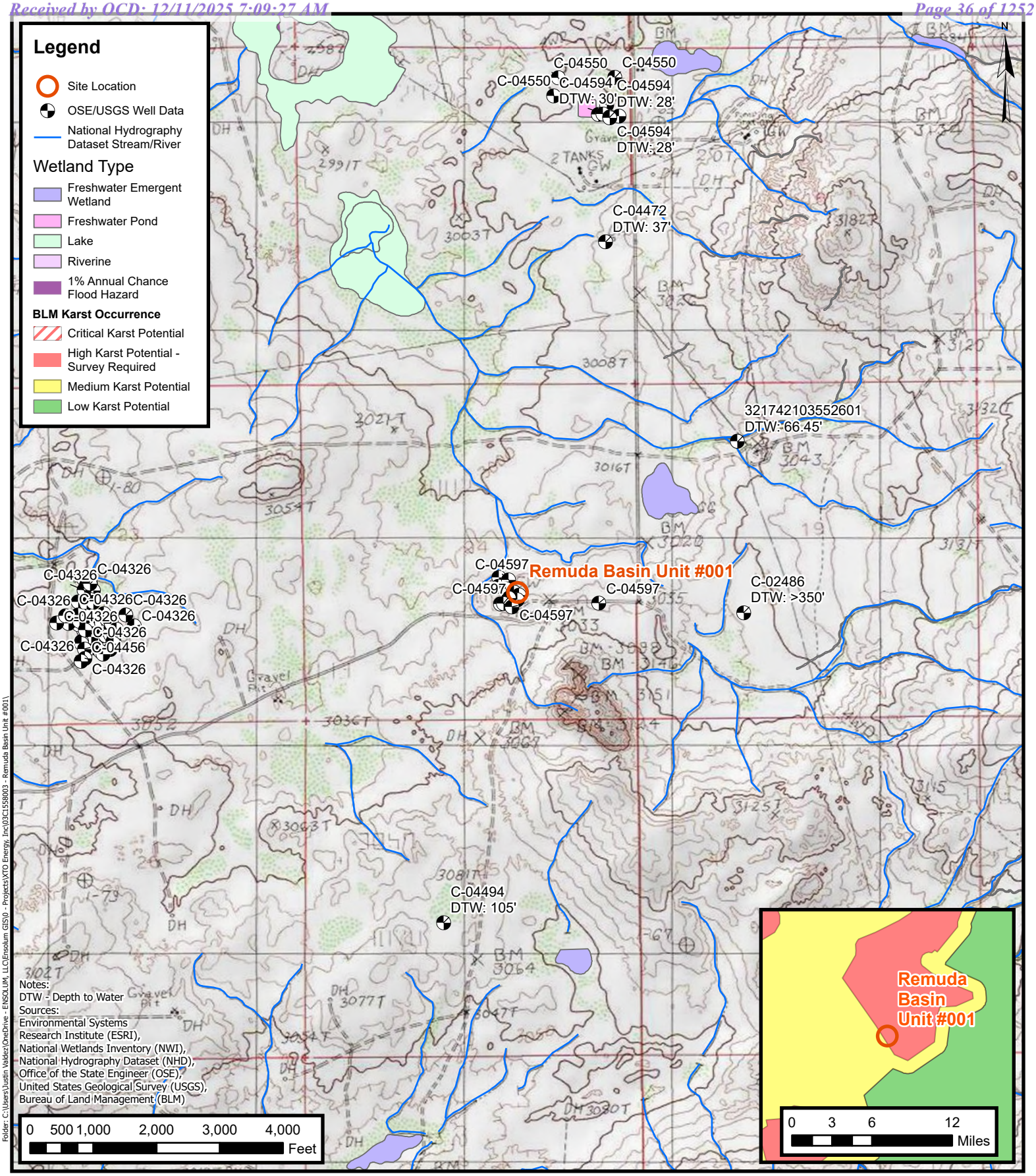
FIGURES



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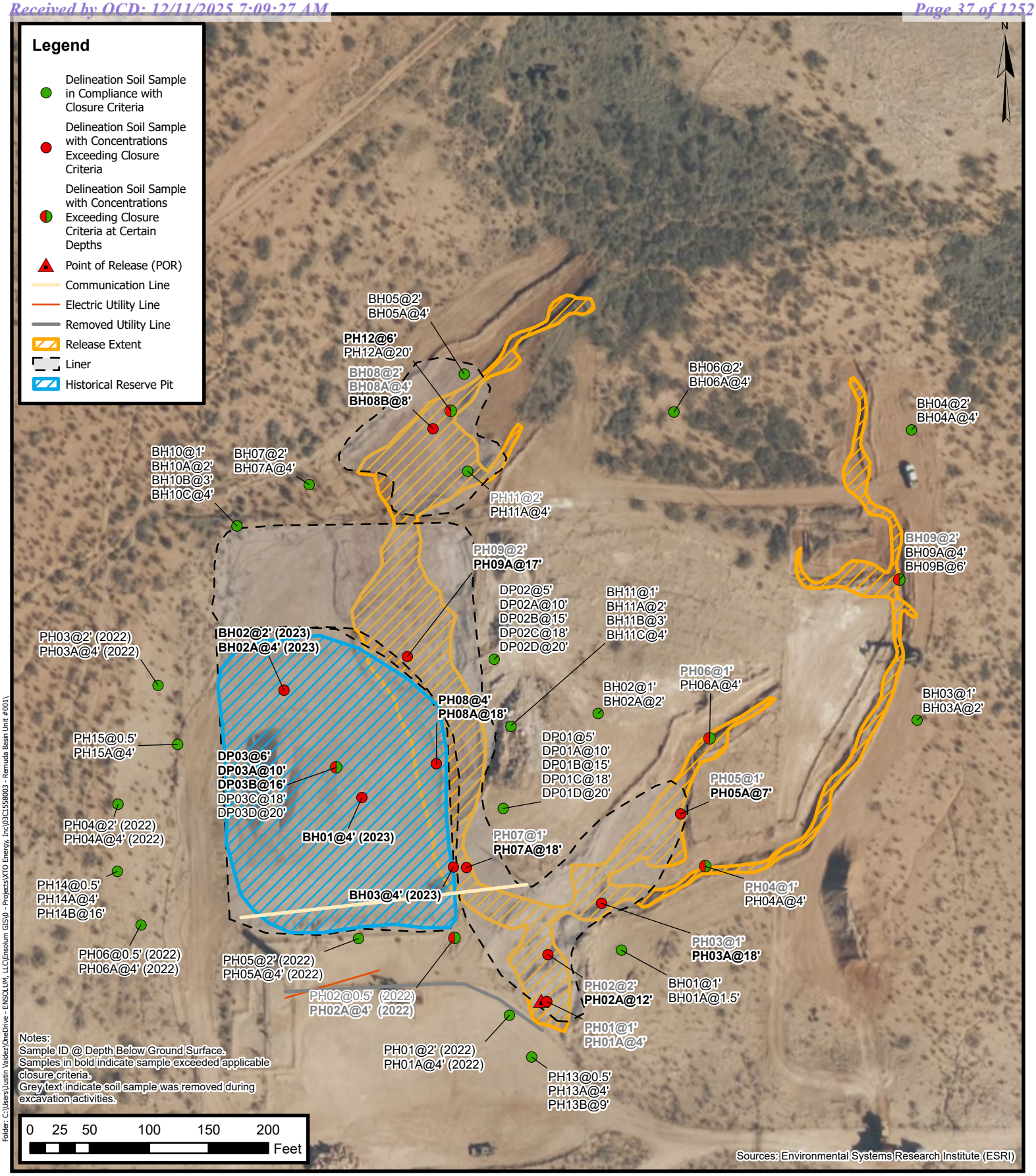
Site Location Map

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 1



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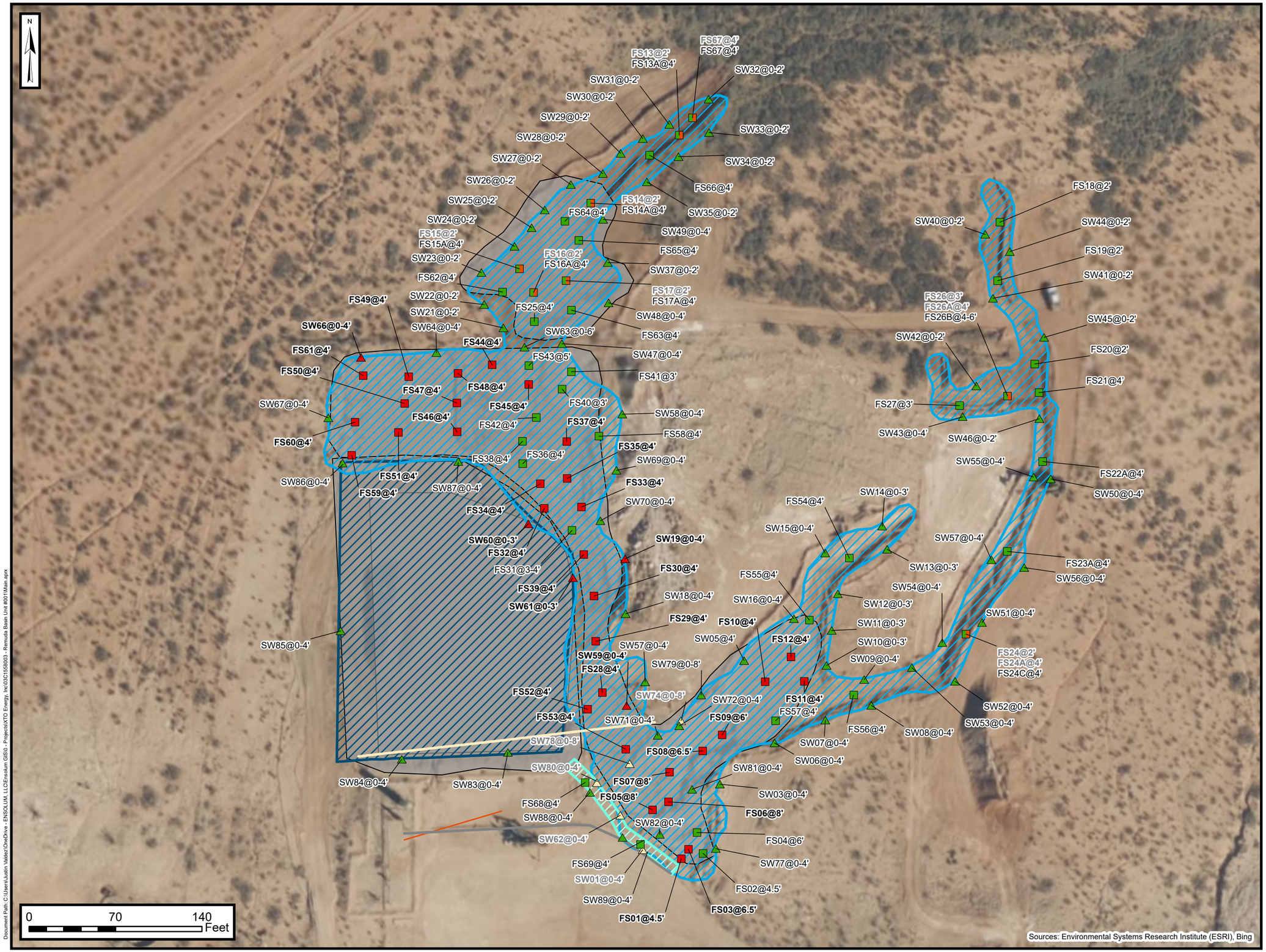
Liner and Delineation Soil Sample Locations

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 2



Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Excavation Sidewall Sample with Concentrations Exceeding Closure Criteria
- Excavation Sidewall Sample - Removed
- Excavation Floor Sample with Concentrations Previously Exceeding Closure Criteria
- Communication Line
- Electric Utility Line
- Removed Utility Line
- 2023 Excavation Extent
- Excavation Extent
- Reserve Pit Excavation Perimeter
- Liner Extent

Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.

Excavation Soil Sample Locations

XTO Energy, Inc
Remuda Basin Unit #001
Incident Number: NAB1836137253
Unit J, Section 24, T 23S, R 29E
Eddy County, New Mexico

FIGURE 3

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TABLE

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Soil Samples										
~~SS01~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~70.3~~	~~<49.8~~	~~70.3~~	~~70.3~~	~~4,300~~
~~SS02~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~6,170~~
~~SS03~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~7,900~~
~~SS04~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~4,910~~
~~SS05~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~4,420~~
~~SS06~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~3,890~~
~~SS07~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~4,660~~
~~SS08~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~7,470~~
~~SS09~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~5,500~~
~~SS10~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~7,780~~
~~SS11~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~2,110~~
~~SS12~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~5,650~~
Delineation Soil Samples										
BH01	06/17/2019	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	18.4
BH01A	06/17/2019	1.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.4
BH02	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
BH02A	06/17/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	13.7
BH03	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH03A	06/17/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
BH04	06/18/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH04A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	16.9
BH05	06/18/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH05A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	233
BH06	06/18/2019	2	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	7.00
BH06A	06/18/2019	4	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	5.14
BH07	06/18/2019	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	54.7
BH07A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	144

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
~~BH08~~	~~06/19/2019~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,280**~~
~~BH08A~~	~~06/19/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,160**~~
BH08B	06/19/2019	8	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**619**
~~BH09~~	~~06/19/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,080**~~
BH09A	06/19/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH09B	06/19/2019	6	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	<25.2
BH10	05/13/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
BH10A	05/13/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
BH10B	05/13/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH10C	05/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH11	05/13/2025	1	<0.050	<0.300	<10.0	76.7	<10.0	76.7	76.7	64.0
BH11A	05/13/2025	2	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	32.0
BH11B	05/13/2025	3	<0.050	<0.300	<10.0	28.2	<10.0	28.2	28.2	<16.0
BH11C	05/13/2025	4	<0.050	<0.300	<10.0	21.8	<10.0	21.8	21.8	96.0
BH01	11/29/2023	4	<0.00201	<0.00402	<50.4	504	<50.4	504	**504**	**10,200**
BH02	11/29/2023	2	<0.00201	<0.00402	<50.5	109	<50.5	109	**109**	**9,060**
BH02A	11/29/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**3,930**
BH03	11/29/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	**5,730**
~~PH01~~	~~06/13/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,720**~~
~~PH01A~~	~~06/13/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,750**~~
~~PH02~~	~~06/13/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,840**~~
PH02A	06/13/2019	12	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**4,720**
~~PH03~~	~~06/13/2019~~	~~1~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,420**~~
PH03A	06/14/2019	18	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**811**
~~PH04~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**8,260**~~
PH04A	06/14/2019	4	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	587
~~PH05~~	~~06/14/2019~~	~~1~~	~~<0.00201~~	~~<0.00201~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**3,380**~~
PH05A	06/14/2019	7	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**903**
~~PH06~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**904**~~
PH06A	06/14/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00

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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
~~PH07~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**7,680**~~
PH07A	06/14/2019	18	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**857**
PH08	06/17/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**8,860**
PH08A	06/18/2019	18	<0.00199	<0.00199	<15.0	20.0	<15.0	20.0	20.0	**4,410**
~~PH09~~	~~06/17/2019~~	~~2~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~41.6~~	~~<15.0~~	~~41.6~~	~~41.6~~	~~**1,800**~~
PH09A	06/18/2019	17	<0.00200	<0.00200	<15.0	44.9	20.5	65.4	44.9	**1,210**
~~PH11~~	~~01/28/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~332~~
PH11A	01/28/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	475
PH12	02/27/2020	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,480**
PH12A	02/27/2020	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.4
PH13	04/20/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	485
PH13A	04/20/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	180
PH13B	04/20/2020	9.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	69.8
PH14	04/21/2020	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390
PH14A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	330
PH14B	04/21/2020	16.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	62.6
PH15	04/21/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	301
PH15A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	116
PH01	05/11/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	245
PH01A	05/11/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	41.6
~~PH02~~	~~05/11/2022~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~204~~
~~PH02A~~	~~05/11/2022~~	~~4~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**701**~~
PH03	05/11/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	207
PH03A	05/11/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	87.8
PH04	06/16/2022	2	<0.000389	0.00361	44.4	37.7	<14.9	82.1	82.1	110
PH04A	06/16/2022	4	<0.000386	<0.00101	36.8	30.9	<15.0	67.7	67.7	403
PH05	06/16/2022	2	<0.000385	0.0024	37.2	33.2	<15.0	70.4	70.4	504
PH05A	06/16/2022	4	<0.000383	0.00373	42	31.6	<15.0	73.6	73.6	384
PH06	06/16/2022	0.5	0.00365	0.0432	37.3	25.5	<15.0	62.8	62.8	270
PH06A	06/16/2022	4	<0.000384	<0.00101	<15.0	27.4	<15.0	27.4	27.4	165

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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
DP01	11/20/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP01A	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
DP01B	11/20/2024	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
DP01C	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP01D	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP02	11/20/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DP02A	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DP02B	11/20/2024	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DP02C	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
DP02D	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
DP03	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**10,400**
DP03A	11/20/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**5,860**
DP03B	11/20/2024	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,040**
DP03C	11/20/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DP03D	11/20/2024	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Excavation Floor Samples										
FS01	01/13/2020	4.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**876**
FS02	01/13/2020	4.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	528
FS03	01/14/2020	6.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**635**
FS04	01/14/2020	6	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	450
FS05	01/14/2020	8	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	**713**
FS06	01/14/2020	8	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	**2,630**
FS07	01/14/2020	8	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	**2,210**
FS08	01/14/2020	6.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**638**
FS09	01/14/2020	6	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	**1,710**
FS10	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,580**
FS11	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,930**
FS12	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
~~FS13~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~**864**~~
FS13A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.2

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
~~FS14~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,680**~~
FS14A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	143
~~FS15~~	~~02/19/2020~~	~~2~~	~~<0.00198~~	~~<0.00198~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,340**~~
FS15A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	249
~~FS16~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,880**~~
FS16A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	262
~~FS17~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,450**~~
FS17A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	344
FS18	02/19/2020	2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	99.0
FS19	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	141
FS20	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	428
FS21	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	394
FS22A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170
FS23A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	381
~~FS24~~	~~02/21/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**696**~~
~~FS24A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**740**~~
FS24C	10/04/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104
FS25	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	334
~~FS26~~	~~03/06/2020~~	~~3~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**981**~~
~~FS26A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,390**~~
FS26B	04/09/2020	4 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.8
FS27	03/06/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	288
FS28	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**7,050**
FS29	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,930**
FS30	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,020**
FS31	03/09/2020	3 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	415
FS32	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,900**
FS33	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS34	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,700**
FS35	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**650**

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS36	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	203
FS37	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,160**
FS38	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	584
FS39	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,980**
FS40	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	576
FS41	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	375
FS42	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	550
FS43	03/09/2020	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64.8
FS44	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,710**
FS45	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,870**
FS46	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,010**
FS47	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,160**
FS48	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,450**
FS49	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS50	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,520**
FS51	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,650**
FS52	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,130**
FS53	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,310**
FS54	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.1
FS55	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37.5
FS56	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.6
FS57	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.6
FS58	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	373
FS59	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,900**
FS60	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,230**
FS61	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
FS62	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118
FS63	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	237
FS64	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
FS65	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	325

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS66	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	299
FS67	04/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,290**
FS67	05/13/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS68	12/14/2023	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	260
FS69	12/14/2023	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	154
Excavation Sidewall Samples										
~~SW01~~	~~01/13/2020~~	~~0 - 4~~	~~<0.00200~~	~~<0.00200~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,520**~~
~~SW02~~	~~01/13/2020~~	~~0 - 4~~	~~<0.00198~~	~~<0.00198~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**717**~~
SW03	01/14/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	273
~~SW04~~	~~01/14/2020~~	~~0 - 5~~	~~<0.00201~~	~~<0.00201~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**744**~~
SW05	02/03/2020	0 - 4	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	222
SW06	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	101
SW07	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	22.7
SW08	02/03/2020	0 - 4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	255
SW09	02/03/2020	0 - 4	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	40.6
SW10	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	102
SW11	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	21.0
SW12	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	419
SW13	02/03/2020	0 - 3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	136
SW14	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	115
SW15	02/03/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	67.6
SW16	02/03/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	135
~~SW17~~	~~02/04/2020~~	~~0 - 3~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~334~~
SW18	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	575
SW19	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**654**
~~SW20~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**660**~~
SW21	02/18/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	101
SW22	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	177
SW23	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	343
SW24	02/14/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	559

ENSOLUM

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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW25	02/14/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	529
SW26	02/18/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	407
SW27	02/18/2020	0 - 2	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	48.7
SW28	02/18/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	222
SW29	02/18/2020	0 - 2	<0.0000199	<0.0000199	<50.1	<50.1	<50.1	<50.1	<50.1	464
SW30	02/19/2020	0 - 2	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	523
SW31	02/19/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	36.0
SW32	02/19/2020	0 - 2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	194
SW33	02/19/2020	0 - 2	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	133
SW34	02/19/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	82.9
SW35	02/19/2020	0 - 2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	82.6
~~SW36~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00199~~	~~<0.00199~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~1,350~~
SW37	02/19/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	356
~~SW38~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00198~~	~~<0.00198~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~1,070~~
~~SW39~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00200~~	~~<0.00200~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~946~~
SW40	02/19/2020	0 - 2	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<9.94
SW41	02/19/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	102
SW42	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.3
SW43	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	351
SW44	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.1
SW45	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	154
SW46	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.6
SW47	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400
SW48	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	524
SW49	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82.0
SW50	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
SW51	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	368
SW52	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	176
SW53	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	442
SW54	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	153

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XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW55	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	527
SW56	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	196
SW57	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	459
SW58	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259
SW59	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,650**
SW60	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,380**
SW61	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,400**
~~SW62~~	~~05/07/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**5,910**~~
SW63	03/19/2020	0 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58.7
SW64	03/19/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	498
~~SW65~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**628**~~
SW66	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,140**
SW67	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	371
~~SW68~~	~~03/24/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,140**~~
SW69	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	127
SW70	03/26/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148
SW71	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	221
SW72	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	387
~~SW74~~	~~03/27/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**738**~~
~~SW75~~	~~03/27/2020~~	~~0 - 6~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**797**~~
~~SW76~~	~~04/06/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**677**~~
SW77	04/08/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	276
~~SW78~~	~~04/08/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,070**~~
SW79	04/09/2020	0 - 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	235
~~SW80~~	~~04/09/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**963**~~
SW81	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	242
SW82	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259
SW83	12/01/2023	0 - 4	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	53.3
SW84	12/01/2023	0 - 4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	54.4
SW85	12/06/2023	0 - 4	<0.00202	<0.00404	<49.5	<49.5	<49.5	<49.5	<49.5	186

ENSOLUM

TABLE 1
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Remuda Basin Unit #001
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SW86	12/06/2023	0 - 4	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	185
SW87	12/06/2023	0 - 4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	189
SW88	12/14/2023	0 - 4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	404
SW89	12/14/2023	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	326

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table I Closure Criteria
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
~~Gray~~ text indicates sample location has been excavated and is no longer present
Gray text indicates location has been resampled

ENSOLUM

APPENDIX A

March 31, 2020
Remediation Work Plan

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	NAB1836137253
District RP	2RP-5135
Facility ID	
Application ID	pAB1836136827

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)* NAB1836137253
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.28866 Longitude -103.93570

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Remuda Basin #1	Site Type Production Well
Date Release Discovered 12/14/2018	API# *(if applicable)* 30-015-03691

Unit Letter	Section	Township	Range	County
J	24	23S	29E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* New Mexico)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 305	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

An illegal dumping of produced water was discovered at the location and flowed north and east into the pasture. There were no standing fluids to recover. Authorities were notified and the event was assigned a police report # L180003157 by the Eddy County Sheriff's Office. An environmental contractor has been retained to assist with remediation efforts.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1836137
District RP	2RP-5135
Facility ID	
Application ID	pAB1836136827

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume of 25 barrels or more

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notice provided by Amy Ruth to Maria Pruett, Mike Bratcher, Jim Griswold (NMOCD), Ryan Mann (SLO), and Shelly Tucker (BLM) on 12/14/2018 by email

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kyle Littrell Title: SH&E Coordinator

Signature: [signature] Date: 12-20-18

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: [signature] Date: 12/27/2018

State of New Mexico
Oil Conservation Division

Incident ID	NAB1836[illegible]
District RP	2 2RP-5135
Facility ID	
Application ID	pAB1836136827

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?	50-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

Incident ID	NAB1836137253
District RP	2RP-5135
Facility ID	
Application ID	pAB1836136827

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 Coordinator_____

Signature:_____ _____ Date: __3/31/20_____

email: _____ Kyle_Littrell@xtoenergy.com _____ Telephone: ____(432)-221-7331_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAB1836137253
District RP	2RP-5135
Facility ID	
Application ID	pAB1836136827

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisors

Signature: _____ Date: 03/31/20

email: Kyle_Littrell@xtoenergy.com Telephone: (432) 221-7331

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

A proud member of WSP

LT Environmental, Inc.
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

March 31, 2020
Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Remediation Work Plan
Remuda Basin #1
XTO Energy, Inc.
Remediation Permit Number 2RP-5135
Incident Number NAB1836137253
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), a member of WSP, on behalf of XTO Energy, Inc. (XTO), presents the following remediation workplan detailing remediation activities to date and a proposed workplan to address residual impacted soil at the Remuda Basin #1 (Site), resulting from a release of produced water at the Site. This workplan has been developed following completion of the Release Notification Form C-141 submitted to the New Mexico Oil Conservation Division (NMOCD) by XTO on December 20, 2018 that was prepared in accordance with the New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29 (19.15.29). The Site is located in Unit J, Section 24, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1).

This proposed workplan summarizes remediation activities and is designed to address remaining impacts to soil by installing a 20-mil impermeable liner in the subsurface. In addition, the sampling described is designed to evaluate remediation progress and propose a variance to the NMOCD confirmation sampling requirements in 19.15.29.12.D(3) of the NMAC.

RELEASE BACKGROUND

Impacts to soil at the Site were caused by a produced water release discovered on December 14, 2018. Approximately 305 barrels (bbls) of produced water were released due to an illegal dumping at the Site. No freestanding fluids were recovered. Authorities were notified and the event was assigned a police report by the Eddy County Sherriff's Office. Approximately 35,500 square feet of pasture to the north and to the east of the northern edge of the pad were impacted. NMOCD was notified via email and subsequently issued Remediation Permit (RP) number 2RP-5135 and Incident Number NAB1836137253 for the release.

SITE CHARACTERIZATION

LTE 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 NMAC. Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321717103561001, located approximately 330 feet southwest of the Site. The groundwater well has a depth to groundwater of approximately 52 feet bgs and was completed in the Rustler Formation. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry tributary, located approximately 478 feet northwest 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 located in a high-potential karst area. The Site receptors are shown 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)
- Total benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg.

SITE ASSESSMENT, DELINEATION, AND ANALYTICAL RESULTS

On December 19, 2019, LTE personnel inspected the Site to evaluate the release extent. The release extent was mapped using a handheld Global Positing System (GPS) unit and is depicted on Figure 2. LTE personnel collected twelve preliminary soil samples (SS01 through SS12) within the release area at depths of 0.5 feet bgs to begin assessment of the lateral extent of affected surface soil. The soil samples were screened for volatile aromatic hydrocarbons and chloride using a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, 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 Midland, Texas, for analysis of BTEX) using United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) by EPA Method 8015M/D; and chloride by EPA Method 300.0.

Photo documentation was conducted during the initial site visit. The Photographic Log in included in Attachment 1. Preliminary sample locations are depicted on Figure 2.

Initial assessment and analytical results of surface samples SS01 through SS12 indicated that soil chloride concentrations exceeded Closure Criteria at a depth of 0.5 feet bgs. Laboratory results are summarized in Table 1. Based on field screening results, visual observations, and laboratory analytical results, additional assessment activities to further confirm the presence of absence of impacted soil appeared warranted.

Further site assessment and remediation efforts were postponed while awaiting a Right-of-Entry (ROE) permit from the New Mexico State Land Office (SLO). The ROE permit was submitted to SLO on February 8, 2019. Per 19.15.29.12.B.(1) NMAC, an extension for submission of a Remediation Plan or Closure Request was approved by NMOCD on May 1, 2019 extending the deadline to September 14, 2019. The executed ROE permit was received from the SLO on May 1, 2019.

Between June 13, 2019 and June 18, 2019 LTE personnel returned to the Site to oversee additional soil assessment activities. Nine delineation potholes were advanced within the release extent of the Site via track-mounted backhoe. Potholes PH01 through PH09 were advanced to depths ranging from 4 feet to 18 feet bgs to assess the vertical extent of impacted soil. Two discrete delineation soil samples were collected from each pothole at depths ranging from 1 foot to 18 feet bgs. In addition to the potholes, nine delineation boreholes were advanced in the pasture outside the release extent via hand-auger. Boreholes BH01 through BH08 were advanced to approximately 2 to 4 feet bgs and BH09 was advanced to approximately 8 feet bgs to assess the lateral extent of impacted soil. Two delineation soil samples were collected from boreholes BH01 through BH07 at depths ranging from 1 foot to 4 feet bgs and three delineation soil samples were collected from boreholes BH08 and BH09 at depths of 2 feet, 4 feet, and 8 feet bgs. Soil from the potholes and boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each pothole and borehole were documented on lithologic/soil sampling logs and are included as Attachment 2. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Midland, Texas. The potholes were backfilled with the soil removed. The delineation soil sample locations are depicted on Figure 3.

Field screening results and visual observations indicate that remediation activities appeared to be warranted within the release extent both on pad and in the northern pasture area. Laboratory analytical results indicate that benzene, BTEX, and TPH were compliant with the Closure Criteria in all preliminary soil samples and delineation soil samples. Laboratory analytical results for preliminary soil samples SS01 through SS12 indicated that chloride concentrations exceeded the Closure Criteria, with concentrations ranging from 2,110 mg/kg in SS11 up to 7,900 mg/kg in SS03. In addition, delineation potholes PH01 through PH07 indicate that chloride concentrations

exceed the Closure Criteria with concentrations ranging from 811 mg/kg in BH03B at 18 feet bgs up to 8,860 mg/kg in PH08 at 4 feet bgs. Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Attachment 3.

After the Site assessment and analysis of the laboratory analytical results, it was determined that a karst survey would need to be completed before excavation began. The karst survey was scheduled along with an archeological survey of the area in accordance with the executed ROE permit. Per 19.15.29.12.B.(1) NMAC, an extension for submission of a Remediation Plan or Closure Request was approved by NMOCD on September 16, 2019 extending the deadline to January 31, 2020.

The karst survey and archeological survey were completed in October of 2019. Surficial karst features were noted at the Site and excavation of the impacted soil was deemed appropriate. The archeological survey required some protective fencing be erected before excavation began. The fence construction was coordinated with XTO.

EXCAVATION AND FURTHER DELINEATION ACTIVITIES

LTE personnel returned to the Site in December of 2019 to begin excavation activities. The impacted soil is currently being excavated from the release area to a depth of approximately 4 feet bgs in most areas. A total of approximately 9,800 cubic yards have been excavated to date. To direct all excavation activities, LTE screened soil samples using a PID and Hach® chloride QuanTab® test strips.

On January 28, 2020 and February 27, 2020, LTE personnel advanced additional potholes PH11 and PH12 to vertically delineate chloride impacts observed in pothole samples PH03, PH08, and PH09. PH11 was advanced to 4 feet bgs and Pothole PH12 was advanced to a depth of 20 feet bgs. Two discrete soil samples collected from each pothole at depths ranging from 2 feet bgs to 20 feet bgs were field screened using a PID and Hach® chloride QuanTab® test strips. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

Laboratory analytical results indicated chloride concentrations exceeded the Closure Criteria in delineation soil sample PH12 collected at 6 feet bgs. Laboratory analytical results indicated that chloride was compliant with the Closure Criteria in delineation soil sample PH12A collected at 20 feet bgs, as well as delineation soil sample PH11 at 2 feet and 4 feet bgs. The delineation soil sample locations are depicted on Figure 3.

Delineation activities at the Site indicate chloride concentrations exceed the Closure Criteria in soil from the ground surface to a depth of 18 feet bgs. Laterally the release appears to be restricted to the mapped release outline, based on lateral delineation samples collected around the release extent. A reserve pit liner was identified to the north of the pad and to the west of the release extent. Any excavation will be completed at least 2 feet away from the liner boundary

to ensure the integrity of the liner left in place. The current excavation extent is depicted on Figure 4.

PROPOSED WORK PLAN

Based on the size of the impacted area, vertical delineation indicating at least 30 feet of separation between impacted soil and groundwater, and the lack of additional nearby receptors, LTE proposes continued excavation of the top four feet of the excavation and installation of a liner to restrict potential migration of residual chloride concentrations vertically. Field screening and laboratory analytical results indicate all concentrations of benzene, BTEX, and TPH are compliant with Closure Criteria. The only residual impacts observed in the subsurface are chloride concentrations exceeding closure criteria. Soil removal in the top 4 feet and the installation of the impermeable liner appears to be a remedial alternative to full excavation that will be equally protective of human health and the environment. LTE will continue to field screen soil as excavation proceeds to determine final required extent.

In addition, LTE personnel will collect additional delineation samples to the west of the excavation and the drilling pit as well as to the south. Two discrete soil samples will be collected from each pothole or borehole. The soil samples will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples will be handled as described above and analyzed for chloride only at Xenco in Carlsbad, New Mexico. The proposed soil sample locations are depicted on Figure 4.

PROPOSED SAMPLING

XTO is requesting a variance to the 200 square foot confirmation sampling requirement for the area to be excavated, which would require an estimated 175 floor samples within the release extent, excluding sidewall samples. Due to the large size of the affected area, LTE proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 800 square foot area. An estimated 45 samples will be collected from the excavation floor to address the release extent. Figure 4 illustrates the proposed sampling grids overlaying the release footprint. Each square in the grid represents an 800 square foot composite sampling area. Figure 4 does not illustrate sidewall sample locations, which will also be collected to represent 800 square feet sampling areas.

The confirmation soil samples will be placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples will be handled as described above and analyzed for chloride only at Xenco in Carlsbad, New Mexico.

SCHEDULE

Excavation of impacted soil to 4 feet bgs is currently ongoing. XTO will complete the excavation, liner installation, and sampling within 90 days of the date of approval of this work plan by NMOCD.

LTE appreciates the opportunity to provide this remediation work plan and sampling variance request to the NMOCD. If you have any questions or comments, please do not hesitate to contact Ashley L. Ager at (970) 946-1093 or aager@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Tacoma Morrissey
Staff Geologist

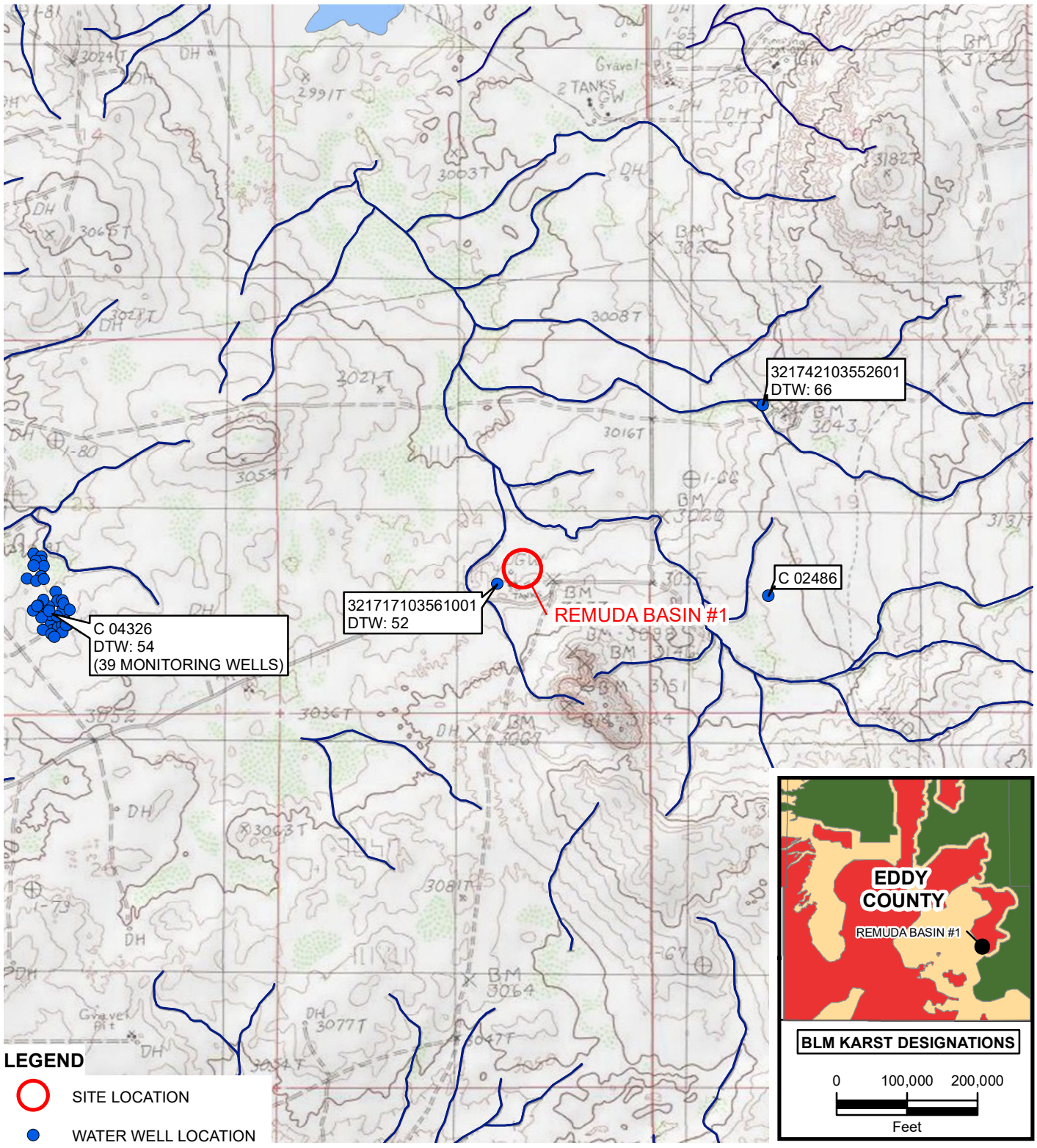
Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Ryann Mann, State Land Office
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Appendices:

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

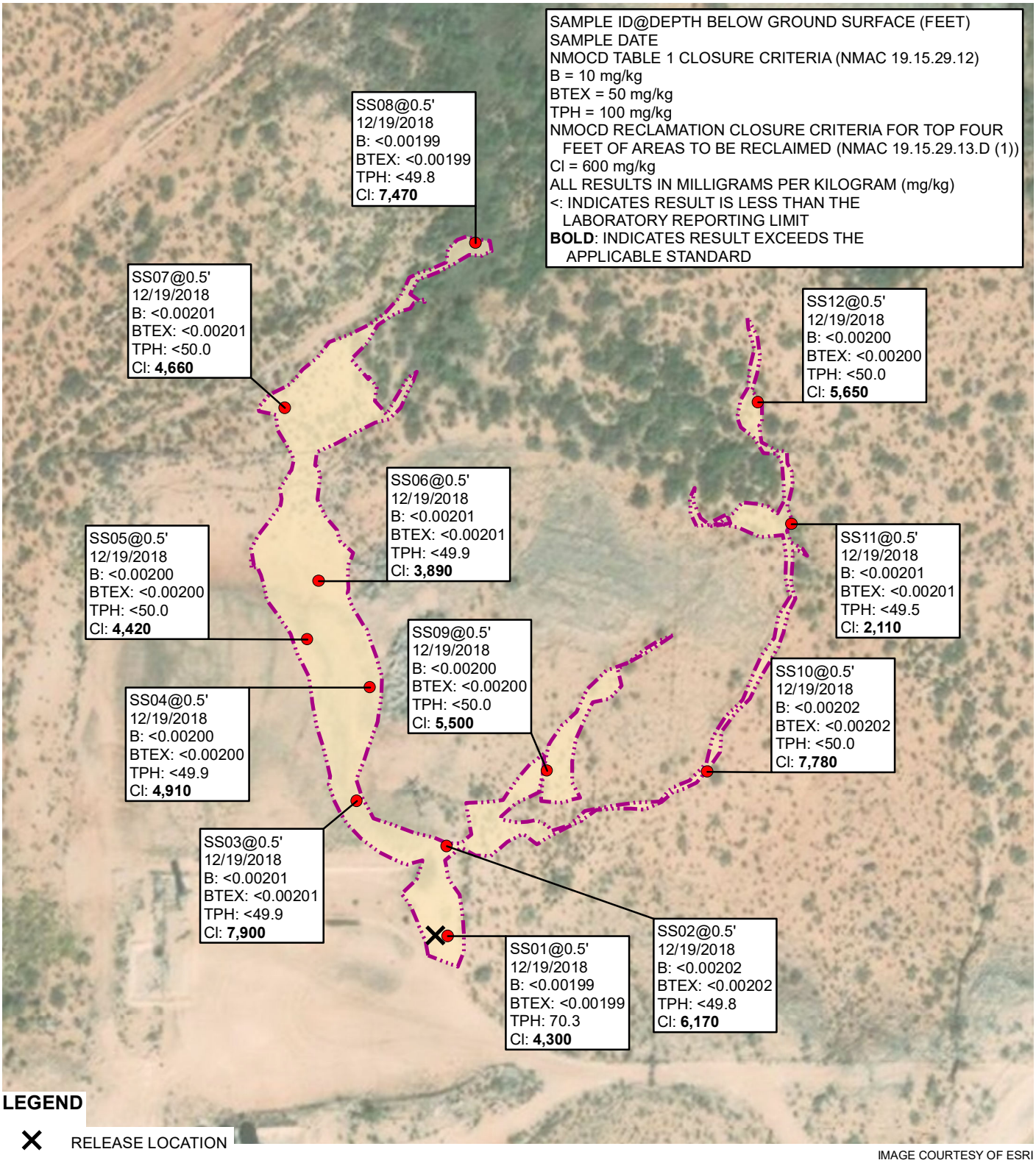
FIGURES



NOTE: REMEDIATION PERMIT NUMBER 2RP-5135
DTW: DEPTH TO WATER IN FEET

FIGURE 1
SITE LOCATION MAP
REMUDA BASIN #1
UNIT J SEC 24 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919001_REMUDA BASIN #1\012919001_FIG01_SL_5135.mxd



LEGEND

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

IMAGE COURTESY OF ESRI

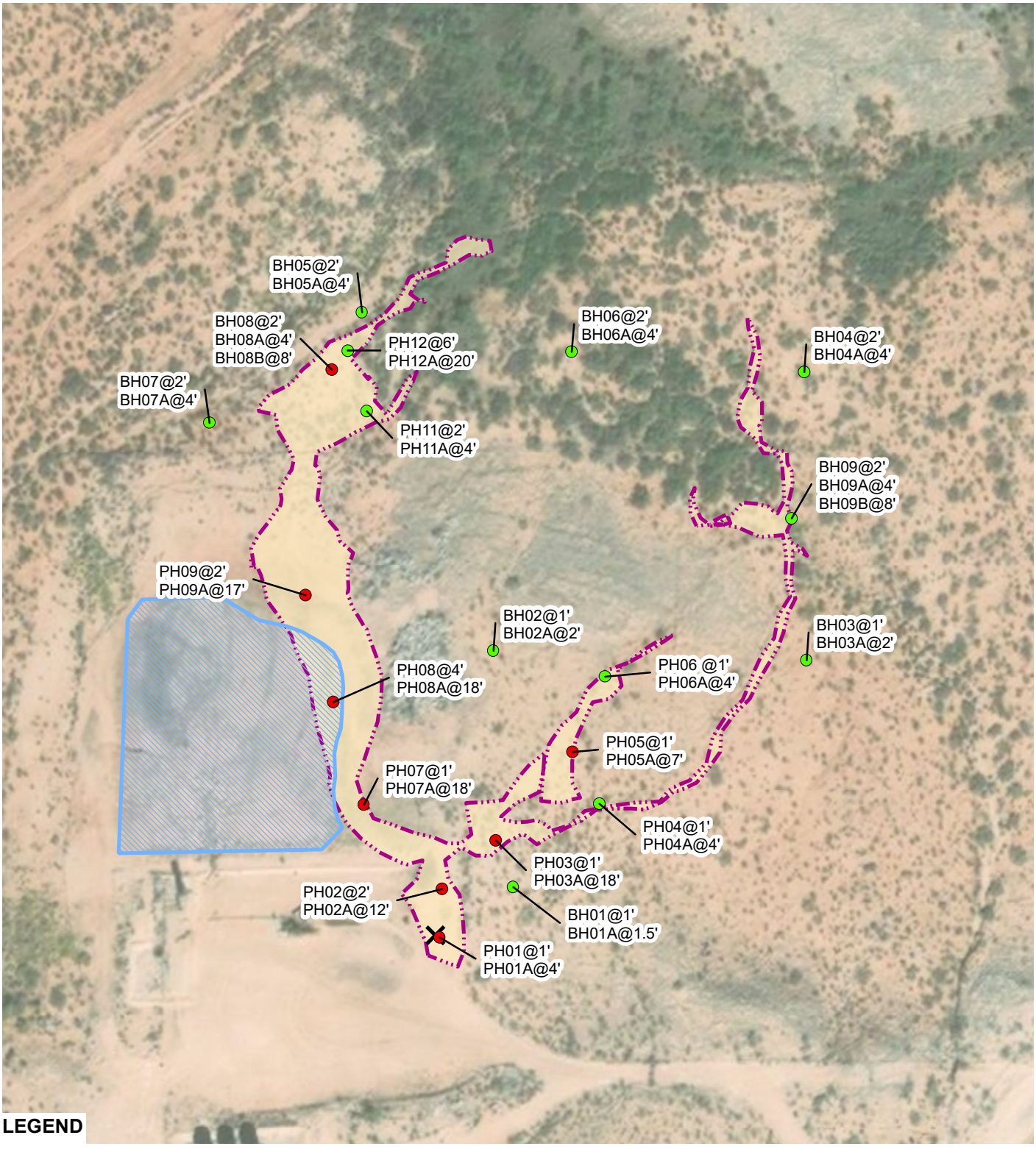
0 120 240
Feet

N

B: BENZENE
BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
TPH: TOTAL PETROLEUM HYDROCARBONS
Cl: CHLORIDE
NMAC: NEW MEXICO ADMINISTRATIVE CODE
NMOCD: NEW MEXICO OIL CONSERVATION DIVISION
NOTE: REMEDIATION PERMIT NUMBER 2RP-5135

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
REMUDA BASIN #1
UNIT J SEC 24 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919001_REMUDA BASIN #1\012919001_FIG02_PRELIMINARY_5135.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- APPROXIMATE LINER EXTENT
- RELEASE EXTENT

SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER 2RP-5135

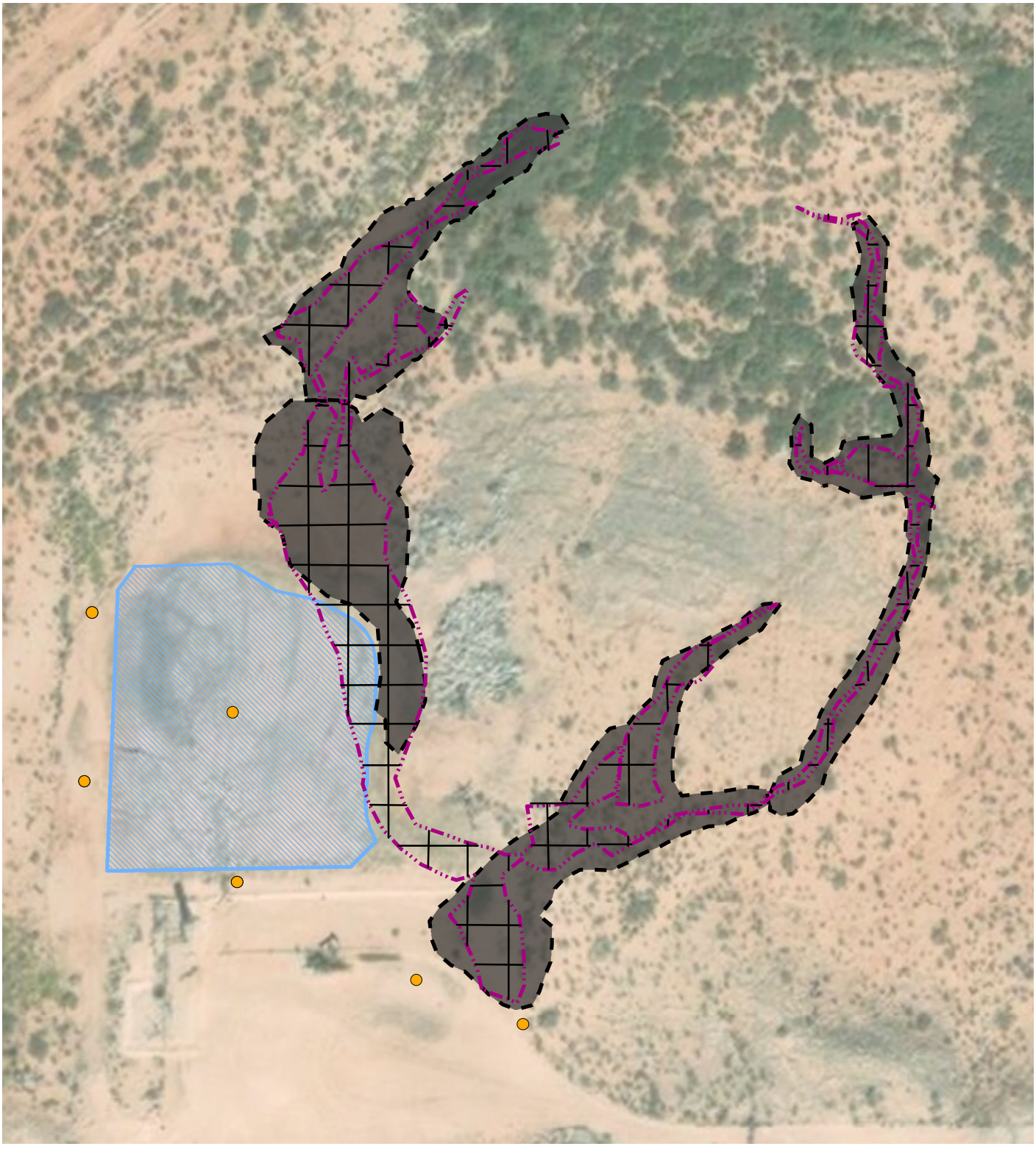
IMAGE COURTESY OF ESRI

0 120 240
Feet

N

FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
REMUDA BASIN #1
UNIT J SEC 24 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919001_REMUDA BASIN #1\012919001_FIG03_DELINEATION_5135.mxd



LEGEND

- PROPOSED SAMPLE LOCATION
- 800 SQUARE FOOT SAMPLING GRID
- RELEASE EXTENT
- EXCAVATION EXTENT

IMAGE COURTESY OF ESRI

0 100 200
Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-5135

FIGURE 4
VARIANCE SAMPLING GRID
REMUDA BASIN #1
UNIT J SEC 24 T23S R29E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012919001_REMUDA BASIN #1\012919001_FIG04_VARIANCE_5135.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

REMUDA BASIN #1
INCIDENT ID # NAB1836137253
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	NE	**100**	**600**
SS01	0.5	12/19/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	70.3	<49.8	70.3	70.3	**4,300**
SS02	0.5	12/19/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	**6,170**
SS03	0.5	12/19/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	**7,900**
SS04	0.5	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**4,910**
SS05	0.5	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**4,420**
SS06	0.5	12/19/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	**3,890**
SS07	0.5	12/19/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	**4,660**
SS08	0.5	12/19/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	**7,470**
SS09	0.5	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**5,500**
SS10	0.5	12/19/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	**7,780**
SS11	0.5	12/19/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.5	<49.5	<49.5	<49.5	<49.5	**2,110**
SS12	0.5	12/19/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**5,650**
PH01	1	06/13/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**5,720**
PH01A	4	06/13/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**5,750**
PH02	2	06/13/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**1,840**
PH02A	12	06/13/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**4,720**
PH03	1	06/13/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	**5,420**
PH03A	18	06/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**811**
PH04	1	06/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**8,260**
PH04A	4	06/14/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	587
PH05	1	06/14/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	**3,380**
PH05A	7	06/14/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**903**

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TABLE 1
SOIL ANALYTICAL RESULTS

REMUDA BASIN #1
INCIDENT ID # NAB1836137253
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	NE	**100**	**600**
PH06	1	06/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	**904**
PH06A	4	06/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
PH07	1	06/14/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**7,680**
PH07A	18	06/14/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**857**
PH08	4	06/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**8,860**
PH08A	18	06/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	20.0	<15.0	20.0	20.0	**4,410**
PH09	2	06/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	41.6	<15.0	41.6	41.6	**1,800**
PH09A	17	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	44.9	20.5	65.4	44.9	**1,210**
PH11	2	01/28/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	332
PH11A	4	01/28/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	475
PH12	6	02/27/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,480**
PH12A	20	02/27/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.4
BH01	1	06/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	18.4
BH01A	1.5	06/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.4
BH02	1	06/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
BH02A	2	06/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	14
BH03	1	06/17/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH03A	2	06/17/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
BH04	2	06/18/2019	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH04A	4	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	16.9
BH05	2	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH05A	4	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	233

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TABLE 1
SOIL ANALYTICAL RESULTS

REMUDA BASIN #1
INCIDENT ID # NAB1836137253
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	NE	**100**	**600**
BH06	2	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	7
BH06A	4	06/18/2019	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	5.14
BH07	2	06/18/2019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	54.7
BH07A	4	06/18/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	144
BH08	2	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**1,280**
BH08 A	4	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**1,160**
BH08 B	8	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**619**
BH08	2	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**1,280**
BH08 A	4	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**1,160**
BH08 B	8	06/19/2019	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**619**

Notes:

bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
ORO - motor oil range organics
NMAC - New Mexico Administrative Code
NMOCD - New Mexico Oil Conservation Division
NE - not established
TPH - total petroleum hydrocarbons
Bold - indicates result exceeds the applicable regulatory standard
< - indicates result is below laboratory reporting limits
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

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ATTACHMENT 1: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Photograph 1: View of release extent facing north west.

Photograph 2: View of effected vegetation facing north.

Photograph 3: Delineation sampling at pothole PH04.

Photograph 4: View of excavation extent facing west.

Remuda Basin 001
32.28866, -103.9357
Photographs Taken: June 7, 2019 through February 28, 2020

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ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLING LOG

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220
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Identifier: PH01	Date: 06/13/2019
Project Name: Remuda 601	RP Number: 2RP5135
Logged By: L. Lambert	Method: hand auger
Lat/Long:	Field Screening: chloride ~~PID~~
Hole Diameter: 3'	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	(5.2) 960			PH01	0			
					1'		caliche	caliche / sand mix brown, dry
dry	(8.1) 2564				2'		caliche	caliche / brown/tan
dry	(4.6) 764				3'		↑	white, gypsum packet
dry	(3.6) 121			PH01A	4'		gypsum ↓	
					5			deepest depth
					6			
					7			
					8			
					9			
					10			
					11			
					12			

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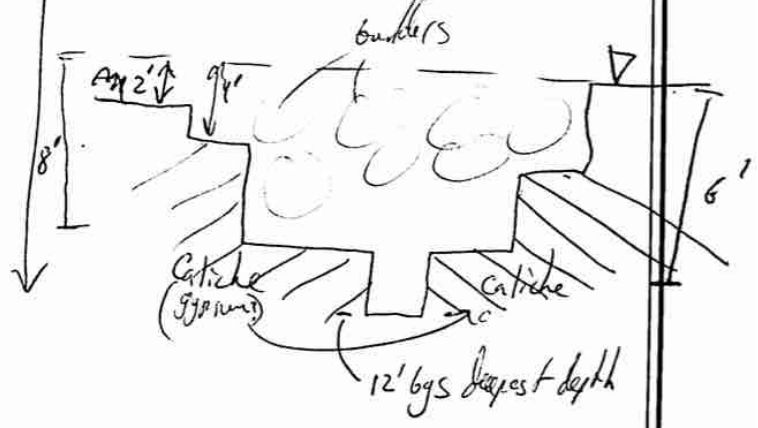
Identifier: PH02	Date: 06/13/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambert	Method: trackhoe
Lat/Long:	Field Screening: ~~PID~~, chlorides
Hole Diameter: 3'	Total Depth:

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
	(5.8(h)) 5876				0 1			large boulders (gypsum, 5-6' wide 4' length
	(6.4(h)) 7552			PH02	2		SP-SM	sand interspersed
					3			
	(7.2) 2044				4			
					5			
	(9.0(h)) >2564				6			
					7			
damp	(4.8(h)) 3900				8		Brown	caliche/rock - gypsum, dark tan nodules
					9			
	(6.2(h)) 6940				10			
					11			
	2328 (3.6(h))			PH02A	12			



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Identifier: PH-03	Date: 06/13/2019
Project Name: Remuda ~~Loo~~ 001	RP Number: 2RP-5185
Logged By: L. Lambert	Method: trackhoe
Lat/Long:	Field Screening: chloride, PID
Hole Diameter: 3' average	Total Depth: TBD

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			Hardcaliche
	(5.6) 1108			PH-03'	1		SW SM	Sand, no odor, dry, fine
	(5.4) 1032				2			
					3			
	(3.4) 436				4		caliche	caliche - white + tan
					5			
	7.4 2044				6			
					7			
	(5.8) ↓ 1184				8		caliche	clay caliche, no odor, dark tan
					9			
	(5.8) 1184)				10			
					11			
	1032 (5.4)				12		caliche	gray/green due to natural fractured caliche/sand

cnt'd

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Identifier:	Date:
PH03	06/14/2019
Project Name:	**RP Number:**
Remuda 001	2RP
Logged By: L. Lambuth	**Method:** tracks
Lat/Long:	**Field Screening:** Chloride PID
Hole Diameter: 3' average	**Total Depth:** 18'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
	5.0 (R) 896	10.9	N		1	14'		moder clayey sand, red/brown, clay nodules glass like rocks ~1" diameter ↓
	4.0		N		2	16'		
	3.4		N	PH03A	3	18'	cl	clay, glass like shards red clay ore nets moder large 2" diameter ↑
					4			
					5			deepest depth
					6			
					7			
					8			
					9			
					10			
					11			
					12			

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Identifier: PH04	Date: 06/14/2019
Project Name: Remuda ws 1	RP Number: 2RP 5135
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: L. Lambert / Method: trackhoe
Lat/Long:	Field Screening: chlorides, PID / Hole Diameter: 3' / Total Depth: 4'
Comments:	

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	(8.8) >25614		/		1		SW-SM	Sand, organics, brown Nodes
dry	(7.0) 1780	15.6	/	PH04	(2)		SW-SM	Sand
dry	260 (2.6)	9.1	/	PH04	(4)		SW-SM	deepest depth

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Identifier: PH-5	Date: 06/14/19
Project Name: Remediation	RP Number: 2RP 5135
Logged By: L. Lambert	Method: trackhoe
Hole Diameter: 2'	Total Depth: 7'
Lat/Long:	Field Screening: PID, chlorides
Comments:	

LITHOLOGIC / SOIL SAMPLING LOG

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	7.4			PH-5	0			
					1		SW-SM	Sand w/ organics, brown
dry	3.2				2		SW-SM	Moder, Sand
					3			
dry	4.4				4		SW-SM	N odor
					5			
dry	3.8				6		SW-SM	N odor
dry	3.2			PH-5-7	7		SW-SM	N odor
					8			deepest depth
					9			
					10			
					11			
					12			

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Identifier: PH-6	Date: 06/14/2019
Project Name: Remuda #1	RP Number: 2RP-5136
Logged By: L. Lambert	Method: trackhoe
Lat/Long:	Field Screening: PID, chloride
Hole Diameter: 2.5'	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil Rock Type	Lithology/Remarks
	(4.4) 704				0			
					1		St Sm	Sand, N odor
	1109				2		Sw Sm	Sand N odor
					3			
	1109				4			gypsum, white, powdery, dry N odor
					5			deepest depth
					6			
					7			
					8			
					9			
					10			
					11			
					12			

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Identifier: PH-7	Date: 06/14/2019		
Project Name: Remuda 001	RP Number: 2RP 5135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: L. Lambuth	Method: trackhe	
Lat/Long:	Field Screening: PID, chlorides	Hole Diameter: 2.5'	Total Depth: 18'
Comments:			

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	(5.6L) 5412			PH7	0 1		SWSM	Sand Nodor brown
dry	(4.2L) 3032				2		SWSC	Sand Nodor brown
					3			
dry	(8.4L) 72564				4		SWSC	Sand Nodor brown
					5			
dry	(9.0L) 72564				6			caliche gypsum nodor
					7			
dry	(6.8L) 1664				8		MH	clay, formed of unformed gypsum nodor
					9			
dry	(9.0L) 2564				10		MH	clay. Nodor
					11			

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Identifier: PH07 cntd	Date: 06/14/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambrecht	Method: trackhoe
Hole Diameter: 2.5'	Total Depth: 18'
Lat/Long:	Field Screening: PID, chlorides
Comments:	

LITHOLOGIC / SOIL SAMPLING LOG

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	(8.0) 2564				0 – 14'		CH	clay, red brown, gypsum, layered & indurated
dry	(7.0) 1780				1 – 2	16'	CH	clay
dry	<109			PH07A	3 – 4	18'	CH	clay high plasticity, hard to break deepest depth
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			

1/1

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Identifier:	Date:
PH08	06/17/2019
Project Name: Remuda 001	RP Number:
Logged By: L. Lambuth	Method: trackhoe
Field Screening: Chlorides, PID	Hole Diameter: 2'
	Total Depth: 18'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Comments: delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
Damp	2068	79	N	PH08	1	1'	SW SM	Some organics present, topsoil, very fine (hit liner @ 1')
Dry	2068	25	N	PH08	2	2'	SW SC	sandy clay, very fine (faint odor) 50/50 fines
Dry	>2428	10	N	PH08	4	4'	MH	gypsum in sample, sandy clay very fine no odor
dry	8.2 >2428	32.3			6	6'	CH	clay, hard red/brown, 1" formed gypsum layer
dry	2504	33.1			8	8'	CH	very hard, compacted clay, intertwined w/ gypsum earthy brown
dry	2504	30			10	10'	caliche gypsum	sandy mixed w/ caliche, tan
dry	1100 <1184 ~~772~~	18			11	11'		sandy white, very hard well caliche layering above graded
dry	1529	6			12	12'		white sand intermixed w/ caliche pieces of old liner

2 strips used

22

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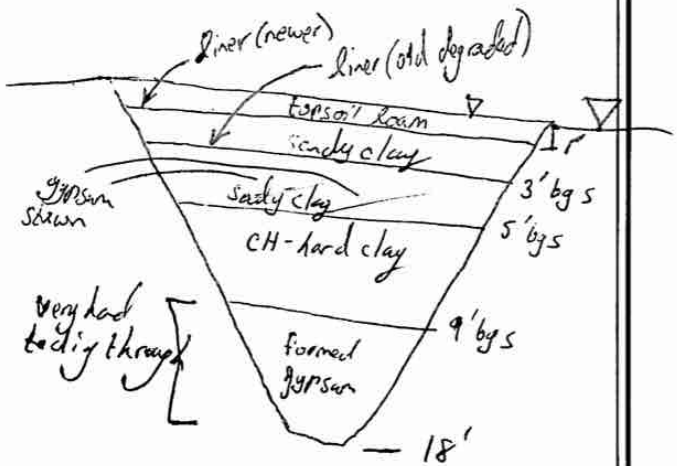
Identifier: PH08 exted	Date: 06/17/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambert	Method: ~~hand Auger~~ backhoe
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2'	Total Depth: 18'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: vertical delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	1.8	2.4			1	14'		caliche - hard to dig white
dry	6.4	10.4			2	15'		
dry	2504	21.2			3	16'		sandy tannish white, big chunks hard caliche inter mixed
					4			
dry	2068	13.8			5	18'		sandy, brwn, poorly graded
					6			
					7			
					8			
					9			
					10			
					11			
					12			



1/2

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Identifier: PH-9	Date: 06/17/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambuth	Method: trad hee
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2'	Total Depth: 17'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: vertical delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					0			
Dry	1184	5.0			1		SP/SM	brown/black stain black - organic decay ?
dry	1184	5.4			2		SW/SC	brown, earthy black streaking on bag
					3			
dry	891	8.2			4		MH	reddish earthy brown clay traces of gypsum, some clay is gumey tan colored
					5			
damp	(7.6) 1054	17.7			6		CH	red, clay, gypsum,
					7			
		20.4			8			
					9			
	6.2	11.09			10		CH	compacted reddish brwn clay
					11			
dry	4.6	9.4			12			caliche/gypsum

772 ppm

2/2

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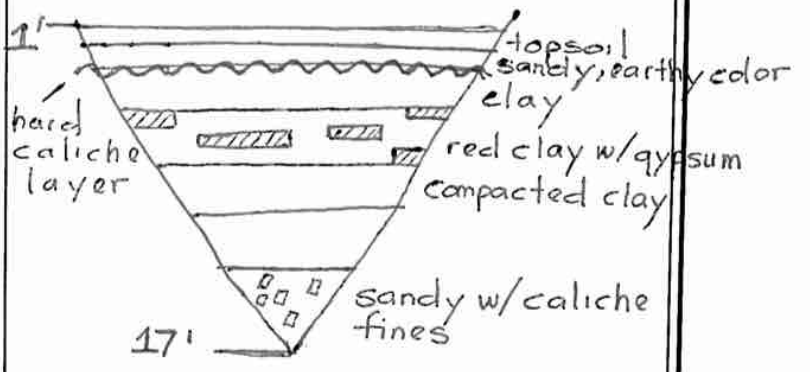
Identifier: PH09 cntd	Date: 06/17/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: C. Lambert	Method: backhoe
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2'	Total Depth: 17'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Vertical delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	604 ppm	29.9			1	14'		w/error 815ppm
dry	504	23			2	15'		w/error 680 ppm
dry	504	25.4			3	15.5'		caliche flakes
dry	404				4	16.5'		
dry	832	12.2			5	17'		deepest sample @ 17'
					6			caliche/gypsum
					7			
					8			
					9			
					10			
					11			
					12			



~Not to scale

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Identifier:	Date:
BH-1	06/17/2019
Project Name:	**RP Number:**
Remuda 001	2RP-5135
Logged By: L. Lombardo	**Method:** hand auger
Hole Diameter: 2.5"	**Total Depth:** 1.5'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID, chlorides

Comments: lateral delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<192	2.7		BH-1	1		SM	topsoil light brown, dry
dry	<108	1.5		BH-1B	2		SP/SM	very dry, light brown sand poorly graded
								deepest depth

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Identifier: BH02	Date: 06/17/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambach	Method: hand Auger
Hole Diameter: 2.5"	Total Depth: 2'
Field Screening: PID, chlorides	
Lat/Long:	

LITHOLOGIC / SOIL SAMPLING LOG

Comments: lateral delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<10	10		BH02	1		SP	sandy tan, poorly graded trace of caliche
dry	<10	3.8		BH02A	2		SP SM	pinkish tan, sandy poorly graded
					3			deepest depth
					4			
					5			
					6			
					7			
					8			06/18/2019
dry	<10			BH02A	9	4'		hard gypsum dry white, flaked off
					10			
					11			
					12			

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Identifier: BH03	Date: 06/17/2019
Project Name: Remuda 021	RP Number: 2RP-5135
Logged By: E. Lambach	Method: ~~Trackhoe~~ hand Auger
Hole Diameter: 2.5"	Total Depth: 2'
Lat/Long:	Field Screening: chloride, PID

LITHOLOGIC / SOIL SAMPLING LOG

Comments: delineation, lateral

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<109	8.4		BH03	0–1		SP-SM	Sandy loam, topsoil, easy to auger through
dry	<109	11.5		BH03A	1–2		SP-SM	Sandy loam
					2–12			deepest depth

13:30
13:45

LT Environmental, Inc.
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Carlsbad, New Mexico 88220
Compliance · Engineering · Remediation

Identifier: BH-4	Date: 06/18/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambert	Method: hand auger
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2.5"	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<108	18.4			0–1		SP	Sand, dry, N odor w/error 145.8
dry	<108	13.1		BH04	1–2		SP	Sand, dry, N odor w/error 145.8
					2–3			
dry	<108	13.8		BH04A	3–4		SP-SM	dry, sandy, poorly graded, reddish brwn, no odor w/error 145.8
					4–5			deepest depth
					5–6			
					6–7			
					7–8			
					8–9			
					9–10			
					10–11			
					11–12			

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Identifier: BH05	Date: 06/18/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambert	Method: hand Auger
Hole Diameter: 2.5"	Total Depth: 4'
Lat/Long:	Field Screening: PID chloride
Comments:	

LITHOLOGIC / SOIL SAMPLING LOG

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<108	52	N		0			
					1'		SP	Water, Sand, brown/red, fines, small rocks
dry	<108	59.8	N	BH05	2'		SP	water,
					3			
dry	183	44.1	N	BH5A	4'		SP-SM	water, sand, red/brown
					5			deepest depth
					6			
					7			
					8			
					9			
					10			
					11			
					12			

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Identifier: BH06	Date: 06/18/2019
Project Name: Remuda 01	RP Number: 2RP 5135
Logged By: L. Lambert	Method: hand auger
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2.5"	Total Depth: 4'

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
dry	<10	13.5			0–1		SP	reddish brwn, sandy, poorly graded, no odor
dry	<10	8.7		BH06	2–3			
dry	<10	17.1		BH06A	4–5		SP-SM	deepest sample @ 4'

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Identifier:	Date:
BH07	06/18/2019
Project Name:	**RP Number:**
Remuda 001	2RP-5135
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: L. Lambert / Method: Hand Auger
Lat/Long:	Field Screening: PID chlorides / Hole Diameter: 2.5" / Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
damp	<108	4.9		BH07	0–1		SP	No odor, reddish brown, poorly graded, slightly clamp (next to mini stream)
damp	<108	14.9			1–2			
					2–3			
damp	136	10.1		BH07A	3–4		SP	deepest sample @ 4'
					4–5			
					5–6			
					6–7			
					7–8			
					8–9			
					9–10			
					10–11			
					11–12			

Katrina Smith

LT Environmental, Inc.
508 West Stevens Street
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Identifier: BH-8	Date: 06/19/19
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L.	Method: hand Auger
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2.5"	Total Depth:

LITHOLOGIC / SOIL SAMPLING LOG

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
slightly clamp	164	24.3			0			
	896	21.7			1			
					2		SW-SC	reddish brwn, sandy clay, poorly graded, some roots throughout
					3			
↓	6600	5.6			4		MH	w/error 89 ppm
					5			
sl damp dry	716	30.3			6			
					7			
dry	896	13.1			8		CH	clay / w/gypsum pockets, high plasticity clay
					9			deepest depth
					10			
					11			
					12			

LT Environmental, Inc.
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Identifier: BH9	Date: 06/19/2019
Project Name: Remuda 001	RP Number: 2RP 5135
Logged By: L. Lambach	Method: hand Auger
Lat/Long:	Field Screening: PID, chlorides
Hole Diameter: 2.5"	Total Depth: 6'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: vertical delineation

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
damp	<109	23.1			1		SW-SM	sand recent rain, red/brown
	<109	12.7			2		SW-SM	sand / pieces of clay, red/brown
					3			
dry	(6.0)	14.0			4		SWSC	~~sandy~~ clay/sand, red/brown, gypsum pieces/patches
dry	(3.0)	3.6			5'		CH	clay / unformed white gypsum, red/brown
dry	<109	26.1			6'		CH	clay, gypsum deposits
					7			deepest depth
					8			
					9			
					10			
					11			
					12			

LT Environmental, Inc.
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Identifier:	Date:
BH 10	01-22-2020
Project Name:	**RP Number:**
REMUDA BASIN 001	2RP-5135
Logged By: C. AGBOR	Method: AUGER
Hole Diameter:	Total Depth: 1.5

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Field Screening: PID, CHLORIDE

Comments: TOTAL DEPTH 1.5, AUGER REFUSAL

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
DRY	678	1.1	N		0–1		SM	Dark Brown, Poorly graded, fine, no odor
DRY	1152	0.3	N		1–1.5		SP/SC	Dark Brown, clayey, Poorly graded, no odor

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

Analytical Report 609801

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin 001

012918058

04-JAN-19

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

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04-JAN-19

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **609801**
Remuda Basin 001
Project Address: Delaware Basin

Adrian Baker:

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 XENCO Report Number(s) 609801. 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 XENCO Laboratories. 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. 609801 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	12-19-18 09:30	0.5 ft	609801-001
SS02	S	12-19-18 09:40	0.5 ft	609801-002
SS03	S	12-19-18 09:50	0.5 ft	609801-003
SS04	S	12-19-18 10:05	0.5 ft	609801-004
SS05	S	12-19-18 10:30	0.5 ft	609801-005
SS06	S	12-19-18 10:40	0.5 ft	609801-006
SS07	S	12-19-18 11:00	0.5 ft	609801-007
SS08	S	12-19-18 11:10	0.5 ft	609801-008
SS09	S	12-19-18 11:25	0.5 ft	609801-009
SS10	S	12-19-18 11:40	0.5 ft	609801-010
SS11	S	12-19-18 11:55	0.5 ft	609801-011
SS12	S	12-19-18 12:05	0.5 ft	609801-012

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012918058*
Work Order Number(s): *609801*

Report Date: *04-JAN-19*
Date Received: *12/27/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3074494 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 609801-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 609801-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 609801

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012918058
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Thu Dec-27-18 11:36 am
Report Date: 04-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609801-001		609801-002		609801-003		609801-004		609801-005		609801-006	
	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:	Dec-19-18 09:30		Dec-19-18 09:40		Dec-19-18 09:50		Dec-19-18 10:05		Dec-19-18 10:30		Dec-19-18 10:40	
BTEX by EPA 8021B	***Extracted:***	Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00	
	Analyzed:	Jan-01-19 01:38		Jan-01-19 01:57		Jan-01-19 02:16		Jan-01-19 02:35		Jan-01-19 02:54		Jan-01-19 03:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00398	0.00398	<0.00403	0.00403	<0.00402	0.00402	<0.00399	0.00399	<0.00400	0.00400	<0.00402	0.00402
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30	
	Analyzed:	Jan-03-19 11:40		Jan-03-19 11:46		Jan-03-19 11:52		Jan-03-19 11:58		Jan-03-19 12:04		Jan-03-19 12:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4300	50.1	6170	50.1	7900	49.5	4910	49.5	4420	25.1	3890	49.5
TPH by SW8015 Mod SUB: T104704215-18-28	***Extracted:***	Dec-28-18 16:29		Dec-28-18 16:32		Dec-28-18 16:35		Dec-28-18 16:38		Dec-28-18 16:41		Dec-28-18 16:44	
	Analyzed:	Jan-04-19 09:45		Dec-29-18 16:00		Dec-29-18 16:21		Dec-29-18 16:43		Dec-29-18 17:05		Jan-04-19 10:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		70.3	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total TPH		70.3	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Assistant

Received by OCD: 12/11/2025 7:09:27 AM

Certificate of Analysis Summary 609801

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012918058
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Thu Dec-27-18 11:36 am
Report Date: 04-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609801-007		609801-008		609801-009		609801-010		609801-011		609801-012	
	Field Id:	SS07		SS08		SS09		SS10		SS11		SS12	
	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:	Dec-19-18 11:00		Dec-19-18 11:10		Dec-19-18 11:25		Dec-19-18 11:40		Dec-19-18 11:55		Dec-19-18 12:05	
BTEX by EPA 8021B	***Extracted:***	Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00	
	Analyzed:	Jan-01-19 03:32		Jan-01-19 03:51		Jan-01-19 04:10		Jan-01-19 04:29		Jan-01-19 05:43		Jan-01-19 06:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398	<0.00400	0.00400	<0.00403	0.00403	<0.00402	0.00402	<0.00400	0.00400
o-Xylene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 10:30		Jan-03-19 10:30		Jan-03-19 10:30	
	Analyzed:	Jan-03-19 12:17		Jan-03-19 12:23		Jan-03-19 12:29		Jan-03-19 19:31		Jan-03-19 19:37		Jan-03-19 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4660	49.9	7470	50.0	5500	49.5	7780	99.4	2110	25.0	5650	49.6
TPH by SW8015 Mod SUB: T104704215-18-28	***Extracted:***	Dec-28-18 16:47		Dec-28-18 16:50		Dec-28-18 16:53		Dec-28-18 16:56		Dec-28-18 16:59		Dec-28-18 17:02	
	Analyzed:	Dec-29-18 17:48		Dec-29-18 18:09		Dec-29-18 18:31		Dec-29-18 18:53		Jan-04-19 10:28		Jan-02-19 18:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Assistant

Released to Imaging: 4/14/2026 8:09:55 AM

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-001	Date Collected:	12.19.18 09.30	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4300**	50.1	mg/kg	01.03.19 11.40		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.29	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.04.19 09.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.3**	49.8	mg/kg	01.04.19 09.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.04.19 09.45	U	1
Total TPH	PHC635	**70.3**	49.8	mg/kg	01.04.19 09.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	01.04.19 09.45	
o-Terphenyl	84-15-1	108	%	70-135	01.04.19 09.45	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-001	Date Collected:	12.19.18 09.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.01.19 01.38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.01.19 01.38	
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.01.19 01.38	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-002	Date Collected:	12.19.18 09.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6170**	50.1	mg/kg	01.03.19 11.46		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.32	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.29.18 16.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.29.18 16.00	
o-Terphenyl	84-15-1	114	%	70-135	12.29.18 16.00	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-002	Date Collected:	12.19.18 09.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.01.19 01.57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.01.19 01.57	
1,4-Difluorobenzene	540-36-3	116	%	70-130	01.01.19 01.57	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-003	Date Collected:	12.19.18 09.50	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7900**	49.5	mg/kg	01.03.19 11.52		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.35	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.29.18 16.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.29.18 16.21	
o-Terphenyl	84-15-1	135	%	70-135	12.29.18 16.21	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-003	Date Collected:	12.19.18 09.50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 02.16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 02.16	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.01.19 02.16	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-004	Date Collected:	12.19.18 10.05	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4910**	49.5	mg/kg	01.03.19 11.58		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.38	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.29.18 16.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.29.18 16.43	
o-Terphenyl	84-15-1	118	%	70-135	12.29.18 16.43	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-004	Date Collected:	12.19.18 10.05	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.01.19 02.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 02.35	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 02.35	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-005	Date Collected:	12.19.18 10.30	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4420**	25.1	mg/kg	01.03.19 12.04		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.41	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 17.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.29.18 17.05	
o-Terphenyl	84-15-1	128	%	70-135	12.29.18 17.05	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-005	Date Collected:	12.19.18 10.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 02.54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	01.01.19 02.54	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.01.19 02.54	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-006	Date Collected:	12.19.18 10.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3890**	49.5	mg/kg	01.03.19 12.10		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.44	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.04.19 10.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	01.04.19 10.06	
o-Terphenyl	84-15-1	104	%	70-135	01.04.19 10.06	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-006	Date Collected:	12.19.18 10.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 03.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 03.13	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 03.13	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-007	Date Collected:	12.19.18 11.00	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4660**	49.9	mg/kg	01.03.19 12.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.47	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 17.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.29.18 17.48	
o-Terphenyl	84-15-1	118	%	70-135	12.29.18 17.48	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-007	Date Collected:	12.19.18 11.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 03.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 03.32	
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.01.19 03.32	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-008	Date Collected:	12.19.18 11.10	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7470**	50.0	mg/kg	01.03.19 12.23		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.50	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.29.18 18.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.29.18 18.09	
o-Terphenyl	84-15-1	130	%	70-135	12.29.18 18.09	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-008	Date Collected:	12.19.18 11.10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.01.19 03.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	01.01.19 03.51	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.01.19 03.51	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-009	Date Collected:	12.19.18 11.25	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5500**	49.5	mg/kg	01.03.19 12.29		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.53	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 18.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.29.18 18.31	
o-Terphenyl	84-15-1	117	%	70-135	12.29.18 18.31	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-009	Date Collected:	12.19.18 11.25	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 04.10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 04.10	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 04.10	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-010	Date Collected:	12.19.18 11.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7780**	99.4	mg/kg	01.03.19 19.31		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.56	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 18.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.29.18 18.53	
o-Terphenyl	84-15-1	125	%	70-135	12.29.18 18.53	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-010	Date Collected:	12.19.18 11.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.01.19 04.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 04.29	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.01.19 04.29	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS11**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-011	Date Collected:	12.19.18 11.55	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2110**	25.0	mg/kg	01.03.19 19.37		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.59	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Total TPH	PHC635	<49.5	49.5	mg/kg	01.04.19 10.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.04.19 10.28	
o-Terphenyl	84-15-1	124	%	70-135	01.04.19 10.28	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS11**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-011	Date Collected:	12.19.18 11.55	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 05.43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.01.19 05.43	
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.01.19 05.43	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS12**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-012	Date Collected:	12.19.18 12.05	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5650**	49.6	mg/kg	01.03.19 19.59		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 17.02	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.02.19 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	01.02.19 18.01	
o-Terphenyl	84-15-1	113	%	70-135	01.02.19 18.01	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS12**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-012	Date Collected:	12.19.18 12.05	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 06.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 06.03	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 06.03	

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.

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

QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Solid Date Prep: 01.03.19
MB Sample Id: 7669102-1-BLK LCS Sample Id: 7669102-1-BKS LCSD Sample Id: 7669102-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	240	96	90-110	3	20	mg/kg	01.03.19 09:11	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Solid Date Prep: 01.03.19
MB Sample Id: 7669107-1-BLK LCS Sample Id: 7669107-1-BKS LCSD Sample Id: 7669107-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	264	106	90-110	1	20	mg/kg	01.03.19 18:48	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-001 MS Sample Id: 609803-001 S MSD Sample Id: 609803-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	54.3	251	314	103	296	96	90-110	6	20	mg/kg	01.03.19 09:30	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-002 MS Sample Id: 609803-002 S MSD Sample Id: 609803-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.8	250	300	94	314	99	90-110	5	20	mg/kg	01.03.19 11:12	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-003 MS Sample Id: 609803-003 S MSD Sample Id: 609803-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	54.6	251	356	120	360	122	90-110	1	20	mg/kg	01.03.19 19:06	X

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

QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609805-001 MS Sample Id: 609805-001 S MSD Sample Id: 609805-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.8	249	277	99	297	107	90-110	7	20	mg/kg	01.03.19 20:36	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074496 Matrix: Solid Date Prep: 12.28.18
MB Sample Id: 7668903-1-BLK LCS Sample Id: 7668903-1-BKS LCSD Sample Id: 7668903-1-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	778	78	802	80	70-135	3	35	mg/kg	12.29.18 14:34	
Diesel Range Organics (DRO)	<50.0	1000	947	95	1030	103	70-135	8	35	mg/kg	12.29.18 14:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		90		94		70-135	%	12.29.18 14:34
o-Terphenyl	91		91		102		70-135	%	12.29.18 14:34

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074496 Matrix: Soil Date Prep: 12.28.18
Parent Sample Id: 609806-008 MS Sample Id: 609806-008 S MSD Sample Id: 609806-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.7	994	896	90	853	86	70-135	5	35	mg/kg	01.02.19 21:15	
Diesel Range Organics (DRO)	<49.7	994	1170	118	1120	113	70-135	4	35	mg/kg	01.02.19 21:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		104		70-135	%	01.02.19 21:15
o-Terphenyl	114		108		70-135	%	01.02.19 21:15

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074494 Matrix: Solid Date Prep: 12.31.18
MB Sample Id: 7669017-1-BLK LCS Sample Id: 7669017-1-BKS LCSD Sample Id: 7669017-1-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	0.109	109	0.116	116	70-130	6	35	mg/kg	12.31.18 23:46	
Toluene	<0.000456	0.100	0.0925	93	0.0976	98	70-130	5	35	mg/kg	12.31.18 23:46	
Ethylbenzene	<0.000565	0.100	0.0944	94	0.0990	99	70-130	5	35	mg/kg	12.31.18 23:46	
m,p-Xylenes	<0.00101	0.200	0.173	87	0.182	91	70-130	5	35	mg/kg	12.31.18 23:46	
o-Xylene	<0.000344	0.100	0.0851	85	0.0892	89	70-130	5	35	mg/kg	12.31.18 23:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		110		110		70-130	%	12.31.18 23:46
4-Bromofluorobenzene	81		90		91		70-130	%	12.31.18 23:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3074494 Matrix: Soil Date Prep: 12.31.18
Parent Sample Id: 609801-001 MS Sample Id: 609801-001 S MSD Sample Id: 609801-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.109	109	0.0999	100	70-130	9	35	mg/kg	01.01.19 00:24	
Toluene	<0.000457	0.100	0.0882	88	0.0800	80	70-130	10	35	mg/kg	01.01.19 00:24	
Ethylbenzene	0.000618	0.100	0.0823	82	0.0686	68	70-130	18	35	mg/kg	01.01.19 00:24	X
m,p-Xylenes	<0.00102	0.200	0.150	75	0.124	62	70-130	19	35	mg/kg	01.01.19 00:24	X
o-Xylene	<0.000345	0.100	0.0731	73	0.0614	61	70-130	17	35	mg/kg	01.01.19 00:24	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		111		70-130	%	01.01.19 00:24
4-Bromofluorobenzene	95		94		70-130	%	01.01.19 00:24

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

Work Order No: 1009801

XENCO LABORATORIES

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:	Adrian Baker	Bill to: (if different)	KYLE LITTRELL
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST TRRP Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	012918058	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Garrett Green	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.3 / 0.7	Thermometer ID:	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS01	S	12/19/2018	0930	0.5'	1	X	X	X
SS02			0940		1	X	X	X
SS03			0950		1	X	X	X
SS04			1005		1	X	X	X
SS05			1030		1	X	X	X
SS06			1040		1	X	X	X
SS07			1100		1	X	X	X
SS08			1110		1	X	X	X
SS09			1125		1	X	X	X
SS10			1140		1	X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1		Anna Byers	12/21/18 1408	2 Anna Byers 12		12/21/18 14:30
3			12/26/18 15:30	4		
5		1136		6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
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XENCO LABORATORIES

Chain of Custody

Work Order No: 1009801

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 2 of 2

Project Manager:	Adrian Baker	Bill to: (if different)	KYLE LITTRELL XTO
Company Name:	LT Environmental, Inc., Permian office	Company Name:	
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178 Email:		

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST TRRP Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	012918058	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Garrett Green	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.3 | 0.2	Thermometer ID	CC	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS11	S	12/19/2018	1155	0.5'	1	X	X	X
SS12	S	12/19/2018	1215	0.5'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1		Angela Byers	12/21/18 1400	2 Anna Byers		14:30 12/21/18
3		12/26/18 1834	12/26/18 15:30	4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
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Final 1.000
Released to Imaging: 4/14/2026 8:09:55 AM

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Inter-Office Shipment

IOS Number **119839**

Date/Time: 12/27/18 12:59
Lab# From: **Midland**
Lab# To: **Houston**

Created by: Brianna Teel
Delivery Priority:
Air Bill No.: 774072715561

Please send report to: Jessica Kramer
Address: 1211 W. Florida Ave, Midland TX 79701
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
609801-001	S	SS01	12/19/18 09:30	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 09:30**	JKR	PHCC10C28 PHCC28C35	
609801-002	S	SS02	12/19/18 09:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 09:40**	JKR	PHCC10C28 PHCC28C35	
609801-003	S	SS03	12/19/18 09:50	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 09:50**	JKR	PHCC10C28 PHCC28C35	
609801-004	S	SS04	12/19/18 10:05	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 10:05**	JKR	PHCC10C28 PHCC28C35	
609801-005	S	SS05	12/19/18 10:30	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 10:30**	JKR	PHCC10C28 PHCC28C35	
609801-006	S	SS06	12/19/18 10:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 10:40**	JKR	PHCC10C28 PHCC28C35	
609801-007	S	SS07	12/19/18 11:00	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 11:00**	JKR	PHCC10C28 PHCC28C35	
609801-008	S	SS08	12/19/18 11:10	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 11:10**	JKR	PHCC10C28 PHCC28C35	
609801-009	S	SS09	12/19/18 11:25	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 11:25**	JKR	PHCC10C28 PHCC28C35	
609801-010	S	SS10	12/19/18 11:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 11:40**	JKR	PHCC10C28 PHCC28C35	
609801-011	S	SS11	12/19/18 11:55	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 11:55**	JKR	PHCC10C28 PHCC28C35	
609801-012	S	SS12	12/19/18 12:05	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	**01/02/19 12:05**	JKR	PHCC10C28 PHCC28C35	

Inter Office Shipment or Sample Comments:

Relinquished By: Brianna Teel
Brianna Teel

Date Relinquished: 12/27/2018

Received By:
Taha Hedib

Date Received: 12/28/2018 09:30

Cooler Temperature: 0.6

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 119839

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : hou-068

Sent By: Brianna Teel **Date Sent:** 12/27/2018 12:59 PM

Received By: Taha Hedib **Date Received:** 12/28/2018 09:30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 12/28/2018

Taha Hedib

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/27/2018 11:36:00 AM

Work Order #: 609801

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12/27/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/27/2018

Jessica Kramer

Analytical Report 628188

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 001

30-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

30-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628188**
Remuda 001
Project Address: Delaware Basin

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 XENCO Report Number(s) 628188. 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 XENCO Laboratories. 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. 628188 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH08	S	06-17-19 09:40	4 ft	628188-001
PH09	S	06-17-19 11:10	2 ft	628188-002
BH01	S	06-17-19 13:50	1 ft	628188-003
BH01A	S	06-17-19 13:55	1.5 ft	628188-004
BH02	S	06-17-19 14:40	1 ft	628188-005
BH02A	S	06-17-19 14:50	2 ft	628188-006
BH03	S	06-17-19 15:50	1 ft	628188-007
BH03A	S	06-17-19 16:00	2 ft	628188-008

CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: Remuda 001

Project ID:
Work Order Number(s): *628188*

Report Date: *30-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093943 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 628188

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id:
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 30-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628188-001		628188-002		628188-003		628188-004		628188-005		628188-006	
	Field Id:	PH08		PH09		BH01		BH01A		BH02		BH02A	
	Depth:	4- ft		2- ft		1- ft		1.5- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-17-19 09:40		Jun-17-19 11:10		Jun-17-19 13:50		Jun-17-19 13:55		Jun-17-19 14:40		Jun-17-19 14:50	
BTEX by EPA 8021B	***Extracted:***	Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12	
	Analyzed:	Jun-30-19 02:01		Jun-30-19 01:39		Jun-30-19 01:17		Jun-30-19 12:55		Jun-30-19 12:33		Jun-30-19 12:11	
	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	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:00		Jun-22-19 19:00		Jun-22-19 19:00		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-23-19 04:59		Jun-23-19 05:07		Jun-23-19 05:32		Jun-25-19 14:14		Jun-25-19 14:19		Jun-25-19 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8860	99.8	1800	99.2	18.4	5.05	28.4	5.00	<5.00	5.00	13.7	4.96
TPH by SW8015 Mod	***Extracted:***	Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 10:00		Jun-23-19 10:00	
	Analyzed:	Jun-24-19 08:41		Jun-24-19 09:06		Jun-24-19 09:31		Jun-24-19 09:56		Jun-24-19 04:42		Jun-24-19 05:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total GRO-DRO		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 628188

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id:
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 30-JUN-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	628188-007		628188-008					
	Field Id:	BH03		BH03A					
	Depth:	1- ft		2- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Jun-17-19 15:50		Jun-17-19 16:00					
BTEX by EPA 8021B	***Extracted:***	Jun-28-19 17:12		Jun-28-19 17:12					
	Analyzed:	Jun-29-19 11:49		Jun-29-19 11:27					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:00		Jun-25-19 10:40					
	Analyzed:	Jun-23-19 06:13		Jun-25-19 15:31					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		<4.95	4.95	<4.98	4.98				
TPH by SW8015 Mod	***Extracted:***	Jun-23-19 10:00		Jun-23-19 10:00					
	Analyzed:	Jun-24-19 07:08		Jun-24-19 05:22					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0				
Total GRO-DRO		<15.0	15.0	<15.0	15.0				

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-001	Date Collected:	06.17.19 09.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8860**	99.8	mg/kg	06.23.19 04.59		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 08.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.24.19 08.41	
o-Terphenyl	84-15-1	94	%	70-135	06.24.19 08.41	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-001	Date Collected:	06.17.19 09.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.30.19 02.01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.30.19 02.01	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 02.01	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-002	Date Collected:	06.17.19 11.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1800**	99.2	mg/kg	06.23.19 05.07		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	**41.6**	15.0	mg/kg	06.24.19 09.06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.06	U	1
Total TPH	PHC635	**41.6**	15.0	mg/kg	06.24.19 09.06		1
Total GRO-DRO	PHC628	**41.6**	15.0	mg/kg	06.24.19 09.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	06.24.19 09.06	
o-Terphenyl	84-15-1	91	%	70-135	06.24.19 09.06	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-002	Date Collected:	06.17.19 11.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.30.19 01.39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.30.19 01.39	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 01.39	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-003	Date Collected:	06.17.19 13.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.4**	5.05	mg/kg	06.23.19 05.32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 09.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	06.24.19 09.31	
o-Terphenyl	84-15-1	93	%	70-135	06.24.19 09.31	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-003	Date Collected:	06.17.19 13.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.30.19 01.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.30.19 01.17	
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.30.19 01.17	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-004	Date Collected:	06.17.19 13.55	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.4**	5.00	mg/kg	06.25.19 14.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 09.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.24.19 09.56	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 09.56	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-004	Date Collected:	06.17.19 13.55	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.30.19 12.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 12.55	
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.30.19 12.55	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-005	Date Collected:	06.17.19 14.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.25.19 14.19	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 04.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 04.42	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 04.42	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-005	Date Collected:	06.17.19 14.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.30.19 12.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.30.19 12.33	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.30.19 12.33	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-006	Date Collected:	06.17.19 14.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.7**	4.96	mg/kg	06.25.19 14.38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 05.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 05.02	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 05.02	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-006	Date Collected:	06.17.19 14.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.30.19 12.11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.30.19 12.11	
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.30.19 12.11	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-007	Date Collected:	06.17.19 15.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	06.23.19 06.13	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 07.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 07.08	
o-Terphenyl	84-15-1	101	%	70-135	06.24.19 07.08	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-007	Date Collected:	06.17.19 15.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.29.19 11.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.29.19 11.49	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.29.19 11.49	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-008	Date Collected:	06.17.19 16.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	06.25.19 15.31	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 05.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 05.22	
o-Terphenyl	84-15-1	97	%	70-135	06.24.19 05.22	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-008	Date Collected:	06.17.19 16.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.29.19 11.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.29.19 11.27	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.29.19 11.27	

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.

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

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Solid — Date Prep: 06.22.19
MB Sample Id: 7680539-1-BLK — LCS Sample Id: 7680539-1-BKS — LCSD Sample Id: 7680539-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	246	98	90-110	0	20	mg/kg	06.23.19 04:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK — LCS Sample Id: 7680632-1-BKS — LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628029-002 — MS Sample Id: 628029-002 S — MSD Sample Id: 628029-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	246	98	245	98	90-110	0	20	mg/kg	06.23.19 04:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628188-007 — MS Sample Id: 628188-007 S — MSD Sample Id: 628188-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.81	248	258	102	258	102	90-110	0	20	mg/kg	06.23.19 06:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-001 — MS Sample Id: 628414-001 S — MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-002 MS Sample Id: 628414-002 S MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093431 Matrix: Solid Date Prep: 06.23.19
MB Sample Id: 7680669-1-BLK LCS Sample Id: 7680669-1-BKS LCSD Sample Id: 7680669-1-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)	<8.00	1000	1160	116	1150	115	70-135	1	20	mg/kg	06.23.19 21:50	
Diesel Range Organics (DRO)	<8.13	1000	1080	108	1070	107	70-135	1	20	mg/kg	06.23.19 21:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		127		127		70-135	%	06.23.19 21:50
o-Terphenyl	126		113		112		70-135	%	06.23.19 21:50

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093434 Matrix: Solid Date Prep: 06.23.19
MB Sample Id: 7680671-1-BLK LCS Sample Id: 7680671-1-BKS LCSD Sample Id: 7680671-1-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)	9.45	1000	906	91	931	93	70-135	3	20	mg/kg	06.24.19 00:12	
Diesel Range Organics (DRO)	8.62	1000	1020	102	1030	103	70-135	1	20	mg/kg	06.24.19 00:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		77		72		70-135	%	06.24.19 00:12
o-Terphenyl	106		90		92		70-135	%	06.24.19 00:12

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093431 Matrix: Soil Date Prep: 06.23.19
Parent Sample Id: 628585-001 MS Sample Id: 628585-001 S MSD Sample Id: 628585-001 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)	<8.00	1000	1080	108	1090	109	70-135	1	20	mg/kg	06.23.19 22:50	
Diesel Range Organics (DRO)	<8.13	1000	1010	101	1020	102	70-135	1	20	mg/kg	06.23.19 22:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		125		70-135	%	06.23.19 22:50
o-Terphenyl	116		115		70-135	%	06.23.19 22:50

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Released to Imaging: 4/14/2026 8:09:55 AM

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3093434 | Matrix: Soil | Date Prep: 06.23.19
Parent Sample Id: 628550-001 | MS Sample Id: 628550-001 S | MSD Sample Id: 628550-001 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)	10.9	998	966	96	952	94	70-135	1	20	mg/kg	06.24.19 01:24	
Diesel Range Organics (DRO)	9.40	998	996	99	1000	99	70-135	0	20	mg/kg	06.24.19 01:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		82		70-135	%	06.24.19 01:24
o-Terphenyl	95		91		70-135	%	06.24.19 01:24

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093943 | Matrix: Solid | Date Prep: 06.28.19
MB Sample Id: 7681018-1-BLK | LCS Sample Id: 7681018-1-BKS | LCSD Sample Id: 7681018-1-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	0.0875	88	0.0847	84	70-130	3	35	mg/kg	06.29.19 08:28	
Toluene	<0.00200	0.100	0.0838	84	0.0820	81	70-130	2	35	mg/kg	06.29.19 08:28	
Ethylbenzene	<0.00200	0.100	0.0899	90	0.0872	86	70-130	3	35	mg/kg	06.29.19 08:28	
m,p-Xylenes	<0.00401	0.200	0.178	89	0.175	87	70-130	2	35	mg/kg	06.29.19 08:28	
o-Xylene	<0.00200	0.100	0.0865	87	0.0840	83	70-130	3	35	mg/kg	06.29.19 08:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		97		70-130	%	06.29.19 08:28
4-Bromofluorobenzene	100		100		107		70-130	%	06.29.19 08:28

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093943 | Matrix: Soil | Date Prep: 06.28.19
Parent Sample Id: 628189-002 | MS Sample Id: 628189-002 S | MSD Sample Id: 628189-002 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	0.0795	80	0.0781	78	70-130	2	35	mg/kg	06.29.19 09:12	
Toluene	<0.00200	0.100	0.0717	72	0.0698	70	70-130	3	35	mg/kg	06.29.19 09:12	
Ethylbenzene	<0.00200	0.100	0.0697	70	0.0683	68	70-130	2	35	mg/kg	06.29.19 09:12	X
m,p-Xylenes	<0.00401	0.200	0.142	71	0.139	69	70-130	2	35	mg/kg	06.29.19 09:12	X
o-Xylene	<0.00200	0.100	0.0717	72	0.0701	70	70-130	2	35	mg/kg	06.29.19 09:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		97		70-130	%	06.29.19 09:12
4-Bromofluorobenzene	112		111		70-130	%	06.29.19 09:12

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

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Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 426188

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, ~~emckissen@ltenv.com~~, ~~asmith@ltenv.com~~

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Ronda 001	Turn Around	
Project Number:		Routine	X
P.O. Number:	2RP 5135	Rush:	
Sampler's Name:	L Laumbach	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0-5|0.3	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH08	S	06/17/19	9:40	4'	1	X	X	X
PH09	S		11:10	2'	1	X	X	X
BH01	S		13:50	1'	1	X	X	X
BH01A	S		13:55	1.5'	1	X	X	X
BH02	S		14:40	1'	1	X	X	X
BH02A	S		14:50	2'	1	X	X	X
BH03	S		15:50	1'	1	X	X	X
BH03A	S		16:00	2'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1	Ann Byer	06/18/19 0915	2 Ann Byer		6/18/19 08:00
3	FedEx	6/18/19 14:00	4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 27 of 28
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628188

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 628191

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 001

12919001

27-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

27-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628191**
Remuda 001
Project Address: Delaware Basin

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 XENCO Report Number(s) 628191. 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 XENCO Laboratories. 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. 628191 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	06-13-19 12:15	1 ft	628191-001
PH01A	S	06-13-19 12:30	4 ft	628191-002
PH02	S	06-13-19 13:00	2 ft	628191-003
PH02A	S	06-13-19 13:50	12 ft	628191-004
PH03	S	06-13-19 14:30	1 ft	628191-005
PH03A	S	06-14-19 09:45	18 ft	628191-006
PH04	S	06-14-19 10:15	1 ft	628191-007
PH04A	S	06-14-19 10:30	4 ft	628191-008
PH05	S	06-14-19 11:55	1 ft	628191-009
PH05A	S	06-14-19 12:20	7 ft	628191-010
PH06	S	06-14-19 13:30	1 ft	628191-011
PH06A	S	06-14-19 14:00	4 ft	628191-012
PH07	S	06-14-19 14:20	1 ft	628191-013
PH07A	S	06-14-19 15:45	18 ft	628191-014

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 001

Project ID: *12919001*
Work Order Number(s): *628191*

Report Date: *27-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093649 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628191-001		628191-002		628191-003		628191-004		628191-005		628191-006	
	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
	Depth:	1- ft		4- ft		2- ft		12- ft		1- ft		18- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-13-19 12:15		Jun-13-19 12:30		Jun-13-19 13:00		Jun-13-19 13:50		Jun-13-19 14:30		Jun-14-19 09:45	
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00	
	Analyzed:	Jun-26-19 19:13		Jun-26-19 19:35		Jun-26-19 19:57		Jun-26-19 20:19		Jun-26-19 20:41		Jun-26-19 21:03	
	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	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00400	0.00400	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30	
	Analyzed:	Jun-24-19 16:06		Jun-24-19 16:11		Jun-24-19 16:16		Jun-24-19 16:30		Jun-24-19 16:35		Jun-24-19 16:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5720	100	5750	50.0	1840	50.0	4720	100	5420	100	811	50.0
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00	
	Analyzed:	Jun-24-19 22:38		Jun-24-19 23:39		Jun-24-19 23:59		Jun-25-19 00:57		Jun-25-19 01:16		Jun-25-19 01:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628191-007		628191-008		628191-009		628191-010		628191-011		628191-012	
	Field Id:	PH04		PH04A		PH05		PH05A		PH06		PH06A	
	Depth:	1- ft		4- ft		1- ft		7- ft		1- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-14-19 10:15		Jun-14-19 10:30		Jun-14-19 11:55		Jun-14-19 12:20		Jun-14-19 13:30		Jun-14-19 14:00	
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00	
	Analyzed:	Jun-26-19 21:25		Jun-26-19 21:47		Jun-26-19 22:09		Jun-26-19 22:31		Jun-27-19 00:06		Jun-27-19 00:28	
	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	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30	
	Analyzed:	Jun-24-19 16:45		Jun-24-19 16:54		Jun-24-19 16:50		Jun-24-19 17:09		Jun-24-19 17:14		Jun-25-19 09:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8260	50.0	587	5.00	3380	25.0	903	50.0	904	50.0	<5.00	5.00
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00	
	Analyzed:	Jun-25-19 01:55		Jun-25-19 02:15		Jun-25-19 02:34		Jun-25-19 02:54		Jun-25-19 03:34		Jun-25-19 03:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0

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

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	628191-013		628191-014					
	Field Id:	PH07		PH07A					
	Depth:	1- ft		18- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Jun-14-19 14:20		Jun-14-19 15:45					
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00					
	Analyzed:	Jun-27-19 00:50		Jun-27-19 01:12					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00201	0.00201				
Toluene		<0.00200	0.00200	<0.00201	0.00201				
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201				
m,p-Xylenes		<0.00400	0.00400	<0.00402	0.00402				
o-Xylene		<0.00200	0.00200	<0.00201	0.00201				
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201				
Total BTEX		<0.00200	0.00200	<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30					
	Analyzed:	Jun-25-19 08:58		Jun-25-19 09:03					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		7680	50.0	857	50.0				
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00					
	Analyzed:	Jun-25-19 04:14		Jun-25-19 04:34					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0				
Total GRO-DRO		<15.0	15.0	<15.0	15.0				

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-001	Date Collected:	06.13.19 12.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5720**	100	mg/kg	06.24.19 16.06		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 22.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 22.38	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 22.38	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-001	Date Collected:	06.13.19 12.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.26.19 19.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	06.26.19 19.13	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.26.19 19.13	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-002	Date Collected:	06.13.19 12.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5750**	50.0	mg/kg	06.24.19 16.11		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 23.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 23.39	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 23.39	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-002	Date Collected:	06.13.19 12.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.26.19 19.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	06.26.19 19.35	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.26.19 19.35	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-003	Date Collected:	06.13.19 13.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1840**	50.0	mg/kg	06.24.19 16.16		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 23.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.24.19 23.59	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 23.59	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-003	Date Collected:	06.13.19 13.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 19.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 19.57	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 19.57	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-004	Date Collected:	06.13.19 13.50	Sample Depth:	12 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4720**	100	mg/kg	06.24.19 16.30		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 00.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 00.57	
o-Terphenyl	84-15-1	101	%	70-135	06.25.19 00.57	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-004	Date Collected:	06.13.19 13.50	Sample Depth:	12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.26.19 20.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 20.19	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.26.19 20.19	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-005	Date Collected:	06.13.19 14.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5420**	100	mg/kg	06.24.19 16.35		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.25.19 01.16	
o-Terphenyl	84-15-1	103	%	70-135	06.25.19 01.16	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-005	Date Collected:	06.13.19 14.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.26.19 20.41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.26.19 20.41	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 20.41	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-006	Date Collected:	06.14.19 09.45	Sample Depth:	18 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**811**	50.0	mg/kg	06.24.19 16.40		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.25.19 01.35	
o-Terphenyl	84-15-1	99	%	70-135	06.25.19 01.35	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-006	Date Collected:	06.14.19 09.45	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.26.19 21.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.26.19 21.03	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.26.19 21.03	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-007	Date Collected:	06.14.19 10.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8260**	50.0	mg/kg	06.24.19 16.45		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.25.19 01.55	
o-Terphenyl	84-15-1	102	%	70-135	06.25.19 01.55	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-007	Date Collected:	06.14.19 10.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.26.19 21.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 21.25	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 21.25	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-008	Date Collected:	06.14.19 10.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**587**	5.00	mg/kg	06.24.19 16.54		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 02.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.25.19 02.15	
o-Terphenyl	84-15-1	100	%	70-135	06.25.19 02.15	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-008	Date Collected:	06.14.19 10.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.26.19 21.47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 21.47	
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.26.19 21.47	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-009	Date Collected:	06.14.19 11.55	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3380**	25.0	mg/kg	06.24.19 16.50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 02.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.25.19 02.34	
o-Terphenyl	84-15-1	105	%	70-135	06.25.19 02.34	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-009	Date Collected:	06.14.19 11.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 22.09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 22.09	
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.26.19 22.09	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-010	Date Collected:	06.14.19 12.20	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**903**	50.0	mg/kg	06.24.19 17.09		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 02.54	
o-Terphenyl	84-15-1	102	%	70-135	06.25.19 02.54	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-010	Date Collected:	06.14.19 12.20	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 22.31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 22.31	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 22.31	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-011	Date Collected:	06.14.19 13.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**904**	50.0	mg/kg	06.24.19 17.14		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 03.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.25.19 03.34	
o-Terphenyl	84-15-1	95	%	70-135	06.25.19 03.34	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-011	Date Collected:	06.14.19 13.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.27.19 00.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.27.19 00.06	
4-Bromofluorobenzene	460-00-4	99	%	70-130	06.27.19 00.06	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **PH06A** Matrix: Soil Date Received:06.19.19 11.40

Lab Sample Id: 628191-012 Date Collected: 06.14.19 14.00 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.22.19 19.30 Basis: Wet Weight

Seq Number: 3093372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.25.19 09.41	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 06.24.19 14.00 Basis: Wet Weight

Seq Number: 3093439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 03.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.25.19 03.54	
o-Terphenyl	84-15-1	91	%	70-135	06.25.19 03.54	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-012	Date Collected:	06.14.19 14.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.27.19 00.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.27.19 00.28	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.27.19 00.28	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-013	Date Collected:	06.14.19 14.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7680**	50.0	mg/kg	06.25.19 08.58		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 04.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 04.14	
o-Terphenyl	84-15-1	103	%	70-135	06.25.19 04.14	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-013	Date Collected:	06.14.19 14.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.27.19 00.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.27.19 00.50	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.27.19 00.50	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-014	Date Collected:	06.14.19 15.45	Sample Depth:	18 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**857**	50.0	mg/kg	06.25.19 09.03		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 04.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.25.19 04.34	
o-Terphenyl	84-15-1	101	%	70-135	06.25.19 04.34	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-014	Date Collected:	06.14.19 15.45	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.27.19 01.12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.27.19 01.12	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.27.19 01.12	

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.

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

QC Summary 628191

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093372 — Matrix: Solid — Date Prep: 06.22.19
MB Sample Id: 7680541-1-BLK — LCS Sample Id: 7680541-1-BKS — LCSD Sample Id: 7680541-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	266	106	90-110	0	20	mg/kg	06.24.19 15:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093372 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628190-007 — MS Sample Id: 628190-007 S — MSD Sample Id: 628190-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	886	250	1090	82	1090	82	90-110	0	20	mg/kg	06.24.19 15:52	X

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3093439 — Matrix: Solid — Date Prep: 06.24.19
MB Sample Id: 7680675-1-BLK — LCS Sample Id: 7680675-1-BKS — LCSD Sample Id: 7680675-1-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)	<8.00	1000	1160	116	1150	115	70-135	1	20	mg/kg	06.24.19 21:57	
Diesel Range Organics (DRO)	<8.13	1000	1100	110	1090	109	70-135	1	20	mg/kg	06.24.19 21:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		127		123		70-135	%	06.24.19 21:57
o-Terphenyl	108		112		113		70-135	%	06.24.19 21:57

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3093439 — Matrix: Soil — Date Prep: 06.24.19
Parent Sample Id: 628191-001 — MS Sample Id: 628191-001 S — MSD Sample Id: 628191-001 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)	10.8	999	1090	108	1100	109	70-135	1	20	mg/kg	06.24.19 22:59	
Diesel Range Organics (DRO)	<8.12	999	1020	102	1030	103	70-135	1	20	mg/kg	06.24.19 22:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-135	%	06.24.19 22:59
o-Terphenyl	124		126		70-135	%	06.24.19 22:59

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628191

LT Environmental, Inc.

Remuda 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3093649 Matrix: Solid Date Prep: 06.25.19

MB Sample Id: 7680760-1-BLK LCS Sample Id: 7680760-1-BKS LCSD Sample Id: 7680760-1-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	0.0927	93	0.0942	95	70-130	2	35	mg/kg	06.26.19 16:56	
Toluene	<0.00200	0.100	0.0942	94	0.0943	95	70-130	0	35	mg/kg	06.26.19 16:56	
Ethylbenzene	<0.00200	0.100	0.0952	95	0.0951	96	70-130	0	35	mg/kg	06.26.19 16:56	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.187	94	70-130	1	35	mg/kg	06.26.19 16:56	
o-Xylene	<0.00200	0.100	0.0909	91	0.0914	92	70-130	1	35	mg/kg	06.26.19 16:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		99		70-130	%	06.26.19 16:56
4-Bromofluorobenzene	103		103		111		70-130	%	06.26.19 16:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3093649 Matrix: Soil Date Prep: 06.25.19

Parent Sample Id: 628191-001 MS Sample Id: 628191-001 S MSD Sample Id: 628191-001 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	0.0849	85	0.0910	91	70-130	7	35	mg/kg	06.26.19 17:40	
Toluene	<0.00200	0.0998	0.0820	82	0.0868	87	70-130	6	35	mg/kg	06.26.19 17:40	
Ethylbenzene	<0.00200	0.0998	0.0852	85	0.0907	91	70-130	6	35	mg/kg	06.26.19 17:40	
m,p-Xylenes	<0.00399	0.200	0.169	85	0.180	90	70-130	6	35	mg/kg	06.26.19 17:40	
o-Xylene	<0.00200	0.0998	0.0816	82	0.0867	87	70-130	6	35	mg/kg	06.26.19 17:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	06.26.19 17:40
4-Bromofluorobenzene	113		108		70-130	%	06.26.19 17:40

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 628191

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	01291901	Routine	☑
P.O. Number:	2RP 5135	Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5/0.3	Thermometer ID:	IR6	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.5	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	06/13/2019	1'	12:15	1	X	X	X
PH01A	S	06/13/2019	4'	12:30	1			
PH02	S		2'	13:00	1			
PH02A	S		12'	13:50	1			
PH03	S		1'	14:30	1			
PH03A	S	06/14/2019	9:45	18'	1			
PH04	S		10:15	1'	1			
PH04A	S		10:30	4'	1			
PH05	S		11:55	1'	1			
PH05A	S		12:20	7'	1			

Swapped

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1	Robert Macias	06/17/19 @ 1630	2 Robert Macias	Courtney Boker	6/17/19 16:40
3	FedEx	06/18/19 14:00	4		06/19/19 9:00
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

Work Order No: 628191

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	01294001	Routine	☒
P.O. Number:	2RP5135	Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5 | 0.3	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH-6	S	06/14/19	13:30	1'	1	X	X	X
PH6A	S		14:00	4'	1	X	X	X
PH-7	S		14:20	1'	1	X	X	X
PH-7A	S		15:45	18'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1			06/17/19 @ 16:30	2		6/17/19 16:40
3		FedEx	06/18/19 14:00	4		6/18/19 Tues
5				6		

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628191

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 628413

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Remuda 001

012919001

03-JUL-19

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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03-JUL-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628413**
Remuda 001
Project Address: Delaware Basin

Ashley Ager:

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 XENCO Report Number(s) 628413. 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 XENCO Laboratories. 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. 628413 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH08	S	06-19-19 12:32	2 ft	628413-001
BH08 A	S	06-19-19 12:41	4 ft	628413-002
BH08 B	S	06-19-19 13:35	8 ft	628413-003
BH09	S	06-19-19 12:30	2 ft	628413-004
BH09 A	S	06-19-19 12:40	4 ft	628413-005
BH09 B	S	06-19-19 13:20	6 ft	628413-006

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: Remuda 001

Project ID: *012919001*
Work Order Number(s): *628413*

Report Date: *03-JUL-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093578 TPH by SW8015 Mod
Lab Sample ID 628413-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Motor Oil Range Hydrocarbons (MRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 628413-001, -002, -003, -004, -005, -006

Outlier/s are due to possible matrix interference.

Batch: LBA-3094332 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 628413-001 S,628413-001 SD,628413-002.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 628413-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 628413-001, -002, -003, -004, -005, -006.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 628413

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628413-001		628413-002		628413-003		628413-004		628413-005		628413-006	
	Field Id:	BH08		BH08 A		BH08 B		BH09		BH09 A		BH09 B	
	Depth:	2- ft		4- ft		8- ft		2- ft		4- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-19-19 12:32		Jun-19-19 12:41		Jun-19-19 13:35		Jun-19-19 12:30		Jun-19-19 12:40		Jun-19-19 13:20	
BTEX by EPA 8021B SUB: T104704400-18-16	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28	
	Analyzed:	Jul-02-19 08:03		Jul-02-19 08:27		Jul-03-19 05:48		Jul-02-19 09:13		Jul-02-19 09:36		Jul-02-19 14:29	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00399	0.00399	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-18-16	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-25-19 13:26		Jun-25-19 13:31		Jun-25-19 13:36		Jun-25-19 13:50		Jun-25-19 13:55		Jun-25-19 14:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1280	24.8	1160	5.00	619	50.3	1080	49.8	<4.95	4.95	<25.2	25.2
TPH by SW8015 Mod SUB: T104704400-18-16	***Extracted:***	Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00	
	Analyzed:	Jun-25-19 15:31		Jun-25-19 16:48		Jun-25-19 17:14		Jun-25-19 17:40		Jun-25-19 18:07		Jun-25-19 18:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-001	Date Collected:	06.19.19 12.32	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1280**	24.8	mg/kg	06.25.19 13.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 15.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	06.25.19 15.31	
o-Terphenyl	84-15-1	77	%	70-135	06.25.19 15.31	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-001	Date Collected:	06.19.19 12.32	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.02.19 08.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.02.19 08.03	
4-Bromofluorobenzene	460-00-4	129	%	70-130	07.02.19 08.03	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-002	Date Collected:	06.19.19 12.41	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	5.00	mg/kg	06.25.19 13.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 16.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.25.19 16.48	
o-Terphenyl	84-15-1	87	%	70-135	06.25.19 16.48	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-002	Date Collected:	06.19.19 12.41	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.02.19 08.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	149	%	70-130	07.02.19 08.27	**
1,4-Difluorobenzene	540-36-3	105	%	70-130	07.02.19 08.27	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-003	Date Collected:	06.19.19 13.35	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**619**	50.3	mg/kg	06.25.19 13.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 17.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.25.19 17.14	
o-Terphenyl	84-15-1	90	%	70-135	06.25.19 17.14	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-003	Date Collected:	06.19.19 13.35	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.03.19 05.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	07.03.19 05.48	
1,4-Difluorobenzene	540-36-3	87	%	70-130	07.03.19 05.48	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-004	Date Collected:	06.19.19 12.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1080**	49.8	mg/kg	06.25.19 13.50		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 17.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	06.25.19 17.40	
o-Terphenyl	84-15-1	81	%	70-135	06.25.19 17.40	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-004	Date Collected:	06.19.19 12.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.02.19 09.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	128	%	70-130	07.02.19 09.13	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 09.13	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-005	Date Collected:	06.19.19 12.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	06.25.19 13.55	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	06.25.19 18.07	
o-Terphenyl	84-15-1	90	%	70-135	06.25.19 18.07	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-005	Date Collected:	06.19.19 12.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.02.19 09.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.02.19 09.36	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.02.19 09.36	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-006	Date Collected:	06.19.19 13.20	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.2	25.2	mg/kg	06.25.19 14.00	U	5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	06.25.19 18.33	
o-Terphenyl	84-15-1	85	%	70-135	06.25.19 18.33	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-006	Date Collected:	06.19.19 13.20	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.02.19 14.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.02.19 14.29	
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.02.19 14.29	

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.

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

Released to Imaging: 4/14/2026 8:09:55 AM

QC Summary 628413

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Solid Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK LCS Sample Id: 7680632-1-BKS LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-001 MS Sample Id: 628414-001 S MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-002 MS Sample Id: 628414-002 S MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093578 Matrix: Solid Date Prep: 06.25.19
MB Sample Id: 7680769-1-BLK LCS Sample Id: 7680769-1-BKS LCSD Sample Id: 7680769-1-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)	<8.00	1000	1090	109	1060	106	70-135	3	20	mg/kg	06.25.19 14:40	
Diesel Range Organics (DRO)	<8.13	1000	1110	111	1110	111	70-135	0	20	mg/kg	06.25.19 14:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		93		94		70-135	%	06.25.19 14:40
o-Terphenyl	103		93		100		70-135	%	06.25.19 14:40

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

QC Summary 628413

LT Environmental, Inc.

Remuda 001

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3093578 | Matrix: Soil | Date Prep: 06.25.19
Parent Sample Id: 628413-001 | MS Sample Id: 628413-001 S | MSD Sample Id: 628413-001 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)	<7.99	999	983	98	941	94	70-135	4	20	mg/kg	06.25.19 15:57	
Diesel Range Organics (DRO)	9.05	999	1060	105	1080	108	70-135	2	20	mg/kg	06.25.19 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		90		70-135	%	06.25.19 15:57
o-Terphenyl	102		94		70-135	%	06.25.19 15:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Solid | Date Prep: 06.29.19
MB Sample Id: 7681037-1-BLK | LCS Sample Id: 7681037-1-BKS | LCSD Sample Id: 7681037-1-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	0.0998	0.0797	80	0.0870	87	70-130	9	35	mg/kg	07.02.19 05:38	
Toluene	<0.000455	0.0998	0.0937	94	0.101	101	70-130	7	35	mg/kg	07.02.19 05:38	
Ethylbenzene	<0.00200	0.0998	0.105	105	0.114	114	70-130	8	35	mg/kg	07.02.19 05:38	
m,p-Xylenes	<0.00101	0.200	0.209	105	0.225	113	70-130	7	35	mg/kg	07.02.19 05:38	
o-Xylene	<0.000344	0.0998	0.0992	99	0.107	107	70-130	8	35	mg/kg	07.02.19 05:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		90		70-130	%	07.02.19 05:38
4-Bromofluorobenzene	107		107		105		70-130	%	07.02.19 05:38

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Soil | Date Prep: 06.29.19
Parent Sample Id: 628413-001 | MS Sample Id: 628413-001 S | MSD Sample Id: 628413-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0565	57	0.0478	48	70-130	17	35	mg/kg	07.03.19 00:25	X
Toluene	<0.000453	0.0994	0.0850	86	0.0831	83	70-130	2	35	mg/kg	07.03.19 00:25	
Ethylbenzene	<0.00199	0.0994	0.104	105	0.102	102	70-130	2	35	mg/kg	07.03.19 00:25	
m,p-Xylenes	<0.00398	0.199	0.202	102	0.192	96	70-130	5	35	mg/kg	07.03.19 00:25	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0946	95	70-130	3	35	mg/kg	07.03.19 00:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		83		70-130	%	07.03.19 00:25
4-Bromofluorobenzene	141	**	147	**	70-130	%	07.03.19 00:25

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

Page 227 of 1252

Chain of Custody

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

Work Order No: 628413

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:		llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	012919001	Routine	☑
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	L.Laumbach	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	8°C chilling in progress	Thermometer ID		
Received Intact:	(Yes) No		TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	6	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH08	S	6/19/19	12:32	2'	1	X	X	X
BH08A			12:41	4'	1	X	X	X
BH08B			13:35	8'	1	X	X	X
BH09			12:30	2'	1	X	X	X
BH09A			12:40	4'	1	X	X	X
BH09B			13:20	6'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

ice: 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
ervice. 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
enco. 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
		6/19/2019 15:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 21 of 24
Released to Imaging: 4/14/2026 8:09:55 AM

Inter-Office Shipment

IOS Number **41863**

Date/Time: 06/20/19 10:34
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628413-001	S	BH08	06/19/19 12:32	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-001	S	BH08	06/19/19 12:32	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-001	S	BH08	06/19/19 12:32	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-002	S	BH08 A	06/19/19 12:41	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-002	S	BH08 A	06/19/19 12:41	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-002	S	BH08 A	06/19/19 12:41	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-003	S	BH08 B	06/19/19 13:35	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-003	S	BH08 B	06/19/19 13:35	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-003	S	BH08 B	06/19/19 13:35	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-004	S	BH09	06/19/19 12:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-004	S	BH09	06/19/19 12:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-004	S	BH09	06/19/19 12:30	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-005	S	BH09 A	06/19/19 12:40	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-005	S	BH09 A	06/19/19 12:40	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-005	S	BH09 A	06/19/19 12:40	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-006	S	BH09 B	06/19/19 13:20	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-006	S	BH09 B	06/19/19 13:20	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-006	S	BH09 B	06/19/19 13:20	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 06/20/2019

Received By: Brianna Teel

Date Received: 06/21/2019 07:33

Cooler Temperature: 0.4

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 41863

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 06/20/2019 10:34 AM

Received By: Brianna Teel **Date Received:** 06/21/2019 07:33 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 06/21/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 03:35:00 PM

Work Order #: 628413

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**	chilling in progress
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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)?	**N/A**	Subbed to XENCO Midland
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Martha Castro Date: 06/19/2019

Checklist reviewed by: Jessica Kramer Date: 06/20/2019

Jessica Kramer

Analytical Report 628414

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Remuda 001

012919001

03-JUL-19

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03-JUL-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628414**
Remuda 001
Project Address: Delaware Basin

Ashley Ager:

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 XENCO Report Number(s) 628414. 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 XENCO Laboratories. 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. 628414 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH04	S	06-18-19 13:30	2 ft	628414-001
BH04A	S	06-18-19 13:45	4 ft	628414-002
BH05	S	06-18-19 14:10	2 ft	628414-003
BH05A	S	06-18-19 14:20	4 ft	628414-004
BH06	S	06-18-19 15:00	2 ft	628414-005
BH06A	S	06-18-19 15:15	4 ft	628414-006
BH07	S	06-18-19 16:30	2 ft	628414-007
BH07A	S	06-18-19 16:45	4 ft	628414-008
PH08A	S	06-18-19 14:40	18 ft	628414-009
PH09A	S	06-18-19 15:55	17 ft	628414-010

CASE NARRATIVE

Client Name: LT Environmental, Inc.
Project Name: Remuda 001

Project ID: *012919001*
Work Order Number(s): *628414*

Report Date: *03-JUL-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093517 Chloride by EPA 300
Lab Sample ID 628414-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 628414-001, -002, -003, -004, -005, -006, -007, -008, -009.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3094305 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3094332 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 628413-001 S,628413-001 SD.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 628414

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628414-001		628414-002		628414-003		628414-004		628414-005		628414-006	
	Field Id:	BH04		BH04A		BH05		BH05A		BH06		BH06A	
	Depth:	2- ft		4- ft		2- ft		4- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-18-19 13:30		Jun-18-19 13:45		Jun-18-19 14:10		Jun-18-19 14:20		Jun-18-19 15:00		Jun-18-19 15:15	
BTEX by EPA 8021B SUB: T104704400-18-16	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jul-02-19 18:00	
	Analyzed:	Jul-02-19 14:52		Jul-02-19 15:15		Jul-02-19 15:38		Jul-02-19 16:55		Jul-01-19 03:04		** ** ** **	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00400	0.00400	<0.00399	0.00399	<0.00401	0.00401	<0.00396	0.00396
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Chloride by EPA 300 SUB: T104704400-18-16	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-25-19 13:11		Jun-25-19 14:24		Jun-25-19 14:57		Jun-25-19 15:02		Jun-25-19 15:07		Jun-25-19 15:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.02	5.02	16.9	5.00	<5.02	5.02	233	5.05	7.00	4.98	5.14	4.99
TPH by SW8015 Mod SUB: T104704400-18-16	***Extracted:***	Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00	
	Analyzed:	Jun-24-19 17:47		Jun-24-19 18:08		Jun-24-19 18:29		Jun-24-19 18:49		Jun-24-19 19:10		Jun-24-19 19:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 628414

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628414-007		628414-008		628414-009		628414-010					
	Field Id:	BH07		BH07A		PH08A		PH09A					
	Depth:	2- ft		4- ft		18- ft		17- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-18-19 16:30		Jun-18-19 16:45		Jun-18-19 14:40		Jun-18-19 15:55					
BTEX by EPA 8021B	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jul-02-19 18:00					
SUB: T104704400-18-16	***Analyzed:***	Jul-01-19 03:46		Jul-01-19 04:08		Jul-01-19 04:30		** ** ** **					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399				
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 13:30					
SUB: T104704400-18-16	***Analyzed:***	Jun-25-19 15:17		Jun-25-19 15:22		Jun-25-19 15:27		Jun-25-19 19:17					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		54.7	4.97	144	5.05	4410	100	1210	50.0				
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00					
SUB: T104704400-18-16	***Analyzed:***	Jun-24-19 19:51		Jun-24-19 20:13		Jun-24-19 20:33		Jun-24-19 20:54					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	20.0	15.0	44.9	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	20.5	15.0				
Total TPH		<15.0	15.0	<15.0	15.0	20.0	15.0	65.4	15.0				
Total GRO-DRO		<15.0	15.0	<15.0	15.0	20.0	15.0	44.9	15.0				

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Jessica Kramer
Project Assistant

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-001	Date Collected:	06.18.19 13.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.25.19 13.11	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 17.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 17.47	
o-Terphenyl	84-15-1	103	%	70-135	06.24.19 17.47	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-001	Date Collected:	06.18.19 13.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.02.19 14.52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	07.02.19 14.52	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 14.52	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-002	Date Collected:	06.18.19 13.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.9**	5.00	mg/kg	06.25.19 14.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 18.08	
o-Terphenyl	84-15-1	100	%	70-135	06.24.19 18.08	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-002	Date Collected:	06.18.19 13.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.02.19 15.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	07.02.19 15.15	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 15.15	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-003	Date Collected:	06.18.19 14.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.25.19 14.57	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.24.19 18.29	
o-Terphenyl	84-15-1	104	%	70-135	06.24.19 18.29	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-003	Date Collected:	06.18.19 14.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.02.19 15.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.02.19 15.38	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.02.19 15.38	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-004	Date Collected:	06.18.19 14.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**233**	5.05	mg/kg	06.25.19 15.02		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 18.49	
o-Terphenyl	84-15-1	102	%	70-135	06.24.19 18.49	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-004	Date Collected:	06.18.19 14.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.02.19 16.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 16.55	
4-Bromofluorobenzene	460-00-4	110	%	70-130	07.02.19 16.55	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-005	Date Collected:	06.18.19 15.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.00**	4.98	mg/kg	06.25.19 15.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.24.19 19.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 19.10	
o-Terphenyl	84-15-1	102	%	70-135	06.24.19 19.10	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-005	Date Collected:	06.18.19 15.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.01.19 03.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	72	%	70-130	07.01.19 03.04	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.01.19 03.04	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-006	Date Collected:	06.18.19 15.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.14**	4.99	mg/kg	06.25.19 15.12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 19.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 19.31	
o-Terphenyl	84-15-1	96	%	70-135	06.24.19 19.31	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-006	Date Collected:	06.18.19 15.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	FOV			% Moisture:	
Analyst:	FOV	Date Prep:	07.02.19 18.00	Basis:	Wet Weight
Seq Number:	3094305			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.01.19 03.24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	07.01.19 03.24	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.01.19 03.24	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-007	Date Collected:	06.18.19 16.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54.7**	4.97	mg/kg	06.25.19 15.17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 19.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 19.51	
o-Terphenyl	84-15-1	100	%	70-135	06.24.19 19.51	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-007	Date Collected:	06.18.19 16.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.01.19 03.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	07.01.19 03.46	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.01.19 03.46	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-008	Date Collected:	06.18.19 16.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	5.05	mg/kg	06.25.19 15.22		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 20.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 20.13	
o-Terphenyl	84-15-1	97	%	70-135	06.24.19 20.13	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-008	Date Collected:	06.18.19 16.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.01.19 04.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.01.19 04.08	
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.01.19 04.08	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-009	Date Collected:	06.18.19 14.40	Sample Depth:	18 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4410**	100	mg/kg	06.25.19 15.27		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.0**	15.0	mg/kg	06.24.19 20.33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 20.33	U	1
Total TPH	PHC635	**20.0**	15.0	mg/kg	06.24.19 20.33		1
Total GRO-DRO	PHC628	**20.0**	15.0	mg/kg	06.24.19 20.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 20.33	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 20.33	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-009	Date Collected:	06.18.19 14.40	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.01.19 04.30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.01.19 04.30	
1,4-Difluorobenzene	540-36-3	95	%	70-130	07.01.19 04.30	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-010	Date Collected:	06.18.19 15.55	Sample Depth:	17 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 13.30	Basis:	Wet Weight
Seq Number:	3093520			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1210**	50.0	mg/kg	06.25.19 19.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**44.9**	15.0	mg/kg	06.24.19 20.54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**20.5**	15.0	mg/kg	06.24.19 20.54		1
Total TPH	PHC635	**65.4**	15.0	mg/kg	06.24.19 20.54		1
Total GRO-DRO	PHC628	**44.9**	15.0	mg/kg	06.24.19 20.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 20.54	
o-Terphenyl	84-15-1	95	%	70-135	06.24.19 20.54	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-010	Date Collected:	06.18.19 15.55	Sample Depth:	17 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	FOV			% Moisture:	
Analyst:	FOV	Date Prep:	07.02.19 18.00	Basis:	Wet Weight
Seq Number:	3094305			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.01.19 04.52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.01.19 04.52	
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.01.19 04.52	

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.

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

Released to Imaging: 4/14/2026 8:09:55 AM

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK — LCS Sample Id: 7680632-1-BKS — LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093520 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680688-1-BLK — LCS Sample Id: 7680688-1-BKS — LCSD Sample Id: 7680688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	268	107	269	108	90-110	0	20	mg/kg	06.25.19 18:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-001 — MS Sample Id: 628414-001 S — MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-002 — MS Sample Id: 628414-002 S — MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093520 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628481-001 — MS Sample Id: 628481-001 S — MSD Sample Id: 628481-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.5	250	328	118	324	117	90-110	1	20	mg/kg	06.25.19 19:02	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093520 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628483-001 MS Sample Id: 628483-001 S MSD Sample Id: 628483-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	278	111	274	110	90-110	1	20	mg/kg	06.25.19 20:25	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093438 Matrix: Solid Date Prep: 06.24.19
MB Sample Id: 7680674-1-BLK LCS Sample Id: 7680674-1-BKS LCSD Sample Id: 7680674-1-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)	<8.00	1000	1130	113	1140	114	70-135	1	20	mg/kg	06.24.19 12:42	
Diesel Range Organics (DRO)	9.14	1000	1070	107	1070	107	70-135	0	20	mg/kg	06.24.19 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		123		127		70-135	%	06.24.19 12:42
o-Terphenyl	107		112		113		70-135	%	06.24.19 12:42

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093438 Matrix: Soil Date Prep: 06.24.19
Parent Sample Id: 628586-001 MS Sample Id: 628586-001 S MSD Sample Id: 628586-001 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)	46.1	999	1100	105	1080	104	70-135	2	20	mg/kg	06.24.19 13:42	
Diesel Range Organics (DRO)	483	999	1480	100	1480	100	70-135	0	20	mg/kg	06.24.19 13:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		127		70-135	%	06.24.19 13:42
o-Terphenyl	123		128		70-135	%	06.24.19 13:42

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3094332 — Matrix: Solid — Date Prep: 06.29.19
MB Sample Id: 7681037-1-BLK — LCS Sample Id: 7681037-1-BKS — LCSD Sample Id: 7681037-1-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	0.0998	0.0797	80	0.0870	87	70-130	9	35	mg/kg	07.02.19 05:38	
Toluene	<0.000455	0.0998	0.0937	94	0.101	101	70-130	7	35	mg/kg	07.02.19 05:38	
Ethylbenzene	<0.00200	0.0998	0.105	105	0.114	114	70-130	8	35	mg/kg	07.02.19 05:38	
m,p-Xylenes	<0.00101	0.200	0.209	105	0.225	113	70-130	7	35	mg/kg	07.02.19 05:38	
o-Xylene	<0.000344	0.0998	0.0992	99	0.107	107	70-130	8	35	mg/kg	07.02.19 05:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		90		70-130	%	07.02.19 05:38
4-Bromofluorobenzene	107		107		105		70-130	%	07.02.19 05:38

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3094305 — Matrix: Solid — Date Prep: 07.02.19
MB Sample Id: 7681305-1-BLK — LCS Sample Id: 7681305-1-BKS — LCSD Sample Id: 7681305-1-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	0.0998	0.0909	91	0.0923	93	70-130	2	35	mg/kg	07.03.19 00:57	
Toluene	<0.00200	0.0998	0.0896	90	0.0892	90	70-130	0	35	mg/kg	07.03.19 00:57	
Ethylbenzene	<0.00200	0.0998	0.100	100	0.102	103	70-130	2	35	mg/kg	07.03.19 00:57	
m,p-Xylenes	<0.00399	0.200	0.203	102	0.203	103	70-130	0	35	mg/kg	07.03.19 00:57	
o-Xylene	<0.00200	0.0998	0.0953	95	0.0963	97	70-130	1	35	mg/kg	07.03.19 00:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		97		95		70-130	%	07.03.19 00:57
4-Bromofluorobenzene	97		111		107		70-130	%	07.03.19 00:57

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3094332 — Matrix: Soil — Date Prep: 06.29.19
Parent Sample Id: 628413-001 — MS Sample Id: 628413-001 S — MSD Sample Id: 628413-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0565	57	0.0478	48	70-130	17	35	mg/kg	07.03.19 00:25	X
Toluene	<0.000453	0.0994	0.0850	86	0.0831	83	70-130	2	35	mg/kg	07.03.19 00:25	
Ethylbenzene	<0.00199	0.0994	0.104	105	0.102	102	70-130	2	35	mg/kg	07.03.19 00:25	
m,p-Xylenes	<0.00398	0.199	0.202	102	0.192	96	70-130	5	35	mg/kg	07.03.19 00:25	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0946	95	70-130	3	35	mg/kg	07.03.19 00:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		83		70-130	%	07.03.19 00:25
4-Bromofluorobenzene	141	**	147	**	70-130	%	07.03.19 00:25

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3094305 Matrix: Soil Date Prep: 07.02.19

Parent Sample Id: 629696-001 MS Sample Id: 629696-001 S MSD Sample Id: 629696-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00197	0.0986	0.0789	80	0.0875	89	70-130	10	35	mg/kg	07.03.19 01:41	
Toluene	<0.00197	0.0986	0.0758	77	0.0868	88	70-130	14	35	mg/kg	07.03.19 01:41	
Ethylbenzene	<0.00197	0.0986	0.0861	87	0.0988	100	70-130	14	35	mg/kg	07.03.19 01:41	
m,p-Xylenes	<0.00394	0.197	0.172	87	0.201	102	70-130	16	35	mg/kg	07.03.19 01:41	
o-Xylene	<0.00197	0.0986	0.0841	85	0.0933	94	70-130	10	35	mg/kg	07.03.19 01:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		96		70-130	%	07.03.19 01:41
4-Bromofluorobenzene	117		118		70-130	%	07.03.19 01:41

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

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Chain of Custody

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

Work Order No: 628414

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	012919001	Routine	☑
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	L.Laumbach	Due Date:	

SAMPLE RECEIPT

Temperature (°C):	8°C chilling in mop	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID	TNM007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	10
		Wet Ice:	(Yes) No

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
BH04	S	6/18/19	13:30	2'	1	X	X	X
BH04A	S		13:45	4'		X	X	X
BH05	S		14:10	2'		X	X	X
BH05A	S		14:20	4'		X	X	X
BH06	S		15:00	2'		X	X	X
BH06A	S		15:15	4'		X	X	X
BH07	S		16:30	2'		X	X	X
BH07A	S		16:45	4'		X	X	X
PH08A	S		14:40	18'		X	X	X
PH09A	S		15:55	17'		X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

ice: 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
ervice. 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
enco. 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
		06/19/019 - 15:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Released to Imaging: 4/14/2026 8:09:55 AM

Inter-Office Shipment

IOS Number **41862**

Date/Time: 06/20/19 10:33
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628414-001	S	BH04	06/18/19 13:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-001	S	BH04	06/18/19 13:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-001	S	BH04	06/18/19 13:30	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-002	S	BH04A	06/18/19 13:45	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-002	S	BH04A	06/18/19 13:45	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-002	S	BH04A	06/18/19 13:45	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-003	S	BH05	06/18/19 14:10	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-003	S	BH05	06/18/19 14:10	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-003	S	BH05	06/18/19 14:10	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-004	S	BH05A	06/18/19 14:20	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-004	S	BH05A	06/18/19 14:20	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-004	S	BH05A	06/18/19 14:20	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-005	S	BH06	06/18/19 15:00	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-005	S	BH06	06/18/19 15:00	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-005	S	BH06	06/18/19 15:00	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-006	S	BH06A	06/18/19 15:15	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-006	S	BH06A	06/18/19 15:15	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-006	S	BH06A	06/18/19 15:15	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-007	S	BH07	06/18/19 16:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-007	S	BH07	06/18/19 16:30	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-007	S	BH07	06/18/19 16:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-008	S	BH07A	06/18/19 16:45	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-008	S	BH07A	06/18/19 16:45	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-008	S	BH07A	06/18/19 16:45	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-009	S	PH08A	06/18/19 14:40	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **41862**

Date/Time: 06/20/19 10:33
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628414-009	S	PH08A	06/18/19 14:40	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-009	S	PH08A	06/18/19 14:40	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-010	S	PH09A	06/18/19 15:55	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-010	S	PH09A	06/18/19 15:55	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-010	S	PH09A	06/18/19 15:55	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 06/20/2019

Received By: Brianna Teel

Date Received: 06/21/2019 07:33

Cooler Temperature: 0.4

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 41862

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 06/20/2019 10:33 AM

Received By: Brianna Teel **Date Received:** 06/21/2019 07:33 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 06/21/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 03:35:00 PM

Work Order #: 628414

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : TNM007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	chilling in progress
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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)?	**Yes**	Subbed to XENCO Midland
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Martha Castro Date: 06/19/2019

Checklist reviewed by: Jessica Kramer Date: 06/20/2019

Analytical Report 650843

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Bason 001

01.31.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

01.31.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **650843**
Remuda Bason 001
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 XENCO Report Number(s) 650843. 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 XENCO Laboratories. 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. 650843 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

A Small Business and Minority Company

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

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Sample Cross Reference 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH11	S	01.28.2020 00:00	2 ft	650843-001
PH11A	S	01.28.2020 00:00	4 ft	650843-002

Released to Imaging: 4/14/2026 8:09:55 AM

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Bason 001

Project ID:
Work Order Number(s): *650843*

Report Date: *01.31.2020*
Date Received: *01.30.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 650843

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Bason 001

Project Id:

Contact: Dan Moir

Project Location:

Date Received in Lab: Thu 01.30.2020 10:30

Report Date: 01.31.2020 11:40

Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	650843-001		650843-002			
	Field Id:	PH11		PH11A			
	Depth:	2- ft		4- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	01.28.2020 00:00		01.28.2020 00:00			
Chloride by EPA 300	***Extracted:***	01.30.2020 12:00		01.30.2020 12:00			
	Analyzed:	01.30.2020 14:45		01.30.2020 14:50			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		332	50.1	475	49.8		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Certificate of Analytical Results 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id:	**PH11**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650843-001	Date Collected:	01.28.2020 00:00	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**332**	50.1	mg/kg	01.30.2020 14:45		5

Certificate of Analytical Results 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id:	**PH11A**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650843-002	Date Collected:	01.28.2020 00:00	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**475**	49.8	mg/kg	01.30.2020 14:50		5

Released to Imaging: 4/14/2026 8:09:55 AM

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

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QC Summary 650843

LT Environmental, Inc.

Remuda Bason 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Solid Date Prep: 01.30.2020
MB Sample Id: 7695576-1-BLK LCS Sample Id: 7695576-1-BKS LCSD Sample Id: 7695576-1-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	262	105	262	105	90-110	0	20	mg/kg	01.30.2020 12:19	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650838-001 MS Sample Id: 650838-001 S MSD Sample Id: 650838-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	235	198	1270	523	1310	543	90-110	3	20	mg/kg	01.30.2020 12:36	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650840-001 MS Sample Id: 650840-001 S MSD Sample Id: 650840-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9360	249	9690	133	9680	129	90-110	0	20	mg/kg	01.30.2020 16:15	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 276 of 1252

Chain of Custody

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

Work Order No: 650843

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:		Routine	☐
P.O. Number:	2RP-5135	Rush:	3 day
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	0.8	Temp Blank: (Yes) No	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	TNM007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH11	S	12/28/20		2'	1			X
PH11A	S	12/28/20		4'	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

discrete
discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Note: 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
1	Robert McAfee		1/30/20 10:30	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 10 of 11
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.30.2020 10.30.00 AM

Work Order #: 650843

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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 01.30.2020

Checklist reviewed by: Jessica Kramer Date: 01.30.2020

Jessica Kramer

Analytical Report 654176

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

03-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

03-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **654176**
Remuda Basin #1
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 XENCO Report Number(s) 654176. 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.

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH12	S	02-27-20 11:05	6 ft	654176-001
PH12A	S	02-27-20 16:20	20 ft	654176-002
SW47	S	02-28-20 14:10	0 - 4 ft	654176-003
SW48	S	02-28-20 14:30	0 - 4 ft	654176-004
SW49	S	02-28-20 13:05	0 - 4 ft	654176-005

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *654176*

Report Date: *03-MAR-20*
Date Received: *02/28/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 654176

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 04:20 pm
Report Date: 03-MAR-20
Project Manager: Jessica Kramer

Analysis Requested												
	Lab Id:	654176-001		654176-002		654176-003		654176-004		654176-005		
	Field Id:	PH12		PH12A		SW47		SW48		SW49		
	Depth:	6- ft		20- ft		0-4 ft		0-4 ft		0-4 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Feb-27-20 11:05		Feb-27-20 16:20		Feb-28-20 14:10		Feb-28-20 14:30		Feb-28-20 13:05		
Chloride by EPA 300	***Extracted:***	Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		
	Analyzed:	Mar-02-20 15:37		Mar-02-20 15:43		Mar-02-20 15:50		Mar-02-20 15:56		Mar-02-20 16:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		1480	50.4	43.4	9.92	400	49.9	524	49.8	81.7	50.3	

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH12**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-001	Date Collected:	02.27.20 11.05	Sample Depth:	6 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1480**	50.4	mg/kg	03.02.20 15.37		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH12A**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-002	Date Collected:	02.27.20 16.20	Sample Depth:	20 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**43.4**	9.92	mg/kg	03.02.20 15.43		1

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW47**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-003	Date Collected:	02.28.20 14.10	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**400**	49.9	mg/kg	03.02.20 15.50		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW48**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-004	Date Collected:	02.28.20 14.30	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**524**	49.8	mg/kg	03.02.20 15.56		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW49**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-005	Date Collected:	02.28.20 13.05	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**81.7**	50.3	mg/kg	03.02.20 16.02		5

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.

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

Released to Imaging: 4/14/2026 8:09:55 AM

QC Summary 654176

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Solid Date Prep: 03.02.20
MB Sample Id: 7697772-1-BLK LCS Sample Id: 7697772-1-BKS LCSD Sample Id: 7697772-1-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	249	100	252	101	90-110	1	20	mg/kg	03.02.20 11:56	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Soil Date Prep: 03.02.20
Parent Sample Id: 654139-001 MS Sample Id: 654139-001 S MSD Sample Id: 654139-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.97	200	219	106	219	106	90-110	0	20	mg/kg	03.02.20 13:47	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Soil Date Prep: 03.02.20
Parent Sample Id: 654139-011 MS Sample Id: 654139-011 S MSD Sample Id: 654139-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.5	199	220	104	219	104	90-110	0	20	mg/kg	03.02.20 15:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 654176

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com; cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.0	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	5	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
PH 12	S	2/27/2020	11:05	6	1			X	COMPOSITE
PH 12A	S	2/27/2020	16:20	20	1			X	COMPOSITE
SW 47	S	2/28/2020	14:10	0 - 4	1			X	COMPOSITE
SW 48	S	2/28/2020	14:30	0 - 4	1			X	COMPOSITE
SW 49	S	2/28/2020	13:05	0 - 4	1			X	COMPOSITE

ANALYSIS REQUEST

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

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 Tl 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 Tl 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 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
CHRIS AGBOR		2/28/20 1020	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02/28/2020 04:20:00 PM

Work Order #: 654176

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)?	3
#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**

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02/28/2020

Checklist reviewed by: Jessica Kramer Date: 02/28/2020

Jessica Kramer

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APPENDIX B

March 6, 2023
Remediation Work Plan Addendum

ENSOLUM

March 6, 2023

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South Street, Francis Drive
Santa Fe, New Mexico 87505

Re: Remediation Work Plan Addendum
Remuda Basin #1
Incident Number NAB1836137253
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan Addendum* (*Work Plan Addendum*) to document remediation activities completed to date and propose additional remedial actions to address residual impacts at the Remuda Basin #1 (Site). The purpose of the remediation activities, including excavation of impacted soil and installation of a protective liner, was to address impacted soil resulting from illegal dumping of produced water from an unknown party onto the Site. The following *Work Plan Addendum* proposes to address residual soil impacts in accordance with discussions and responses between the New Mexico Oil Conservation Division (NMOCD) and XTO regarding the original *Remediation Work Plan* (*RWP*), dated March 31, 2020.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 24, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28866°, -103.93570°) and is associated with oil and gas exploration and production operations on New Mexico State Land.

Impacts to soil at the Site were caused by illegal dumping of produced water from an unknown party, which was discovered on December 14, 2018. Approximately 305 barrels (bbls) of produced water, all of which were unrelated to operations at the Site, were released to the northern portion of the well pad and adjacent pasture. No freestanding fluids were recovered. Local authorities were notified and the event was assigned a police report by the Eddy County Sherriff's Office; however, the responsible party has not been identified to-date. Approximately 35,500 square feet of pasture to the north and to the east of the northern edge of the pad were impacted. NMOCD was notified via email and subsequently assigned the release Incident Number NAB1836137253.

The original *RWP* was submitted to the NMOCD on March 31, 2020. The *RWP* outlined delineation soil sampling activities completed to date as well as the results of a karst survey and archeological survey. The *RWP* proposed the following:

- Excavation of the top 4 feet of the release extent;
- Installation of a liner to restrict vertical migration of residual chloride concentrations;
- A variance to confirmation sampling frequency requirement from every 200 square feet to every 800 square feet for a composite sampling area; and

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- Delineation of a historical reserve pit identified at the Site.

Previous assessment activities at the Site have been documented and presented to NMOCD and can be accessed through the NMOCD Imaging web portal.

On June 25, 2020, portions of the *RWP* were approved; however, NMOCD denied the delineation of the reserve pit and requested further remedial actions.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized assess applicability of Table I, 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, which was documented in the March 2020 *RWP*, the following NMOCD Table I 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): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION AND ADDITIONAL DELINEATION ACTIVITIES

LT Environmental, Inc. (LTE), a former third-party consultant, was onsite from January 20, 2020 through May 2020 to oversee excavation activities described in the March 2020 *RWP*. Excavation activities were performed using track-mounted backhoe and transport vehicles. LTE utilized delineation data collected in December 2019, knowledge of the release extent, and field screening for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips to direct excavation activities.

Following excavation activities, 5-point composite samples were collected from the floor and sidewalls 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. Composite soil samples FS01 through FS67 were collected from the floor of the excavation at depths ranging from approximately 2 feet to 8 feet below ground surface (bgs). Composite soil samples SW01 through SW80 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 8 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported, under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): 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. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition.

On October 4, 2021, WSP Inc. (WSP), which acquired LTE, collected two additional sidewall samples (SW81 and SW82) at depths ranging from the ground surface to 4 feet bgs. Sampling and analysis were completed in accordance with the procedures described above.

The excavation was completed to depths ranging from approximately 2 feet to 8 feet bgs. The overall excavation areal extent was approximately 116,683 square feet with approximately 22,475 cubic yards of impacted soil removed as a result of the illegal dumping from an unknown third party. Photographic documentation was completed during excavation activities, which is included in Appendix A. The confirmation samples are depicted on Figure 2 and analytical results are summarized in Table 1. The complete laboratory analytical reports are included in Appendix B.

Following the completion of excavation activities, a 20-mil poly liner was installed over approximately 53,412 square feet of land, which did not include the eastern portion of the excavation since all confirmation floor and sidewall soil samples were in compliance with the Closure Criteria. The liner was installed at approximately 4 feet bgs along the southern and western portions of the excavation and up to the historical reserve pit. Chloride is still present at concentrations exceeding the Closure Criteria at and below the 4-foot depth; however, the installation of a liner will prevent the vertical migration of chloride downward, limiting the potential to encounter and impact groundwater. The location of the liner is depicted in Figure 3.

ADDITIONAL DELINEATION ACTIVITIES

Due to the presence of a historical reserve pit that overlaps with the illegal dumping release extent, the lateral extent of the historical reserve pit needed to be defined. On April 20 and 21, 2020, LTE installed potholes PH14 and PH15 on the presumed west side of the reserve pit. Soil samples were collected from potholes PH14 and PH15 utilizing a backhoe and were screened for VOCs and chloride. Soil samples were submitted for laboratory analysis of chloride to aide in defining the reserve pit extent.

Pothole PH13 was also advanced south of the southern most excavation extent since confirmation sidewall soil samples SW01 and SW80 exceeded the Closure Criteria for chloride. Pothole PH13 was advanced with a backhoe to a total depth of 9 feet bgs and soil samples from 0.5 feet, 4 feet, and 9 feet bgs were submitted for laboratory analysis of chloride.

Analytical results of chloride in soil from potholes PH13 through PH15 were in compliance with the Closure Criteria, indicating the sample locations laterally defined the southern portion of the southerly excavation (PH13) and beyond the reserve pit and laterally outside of the illegal dumping release extent to the west (PH14 and PH15). The laboratory analytical results for delineation soil samples are visually depicted on Figure 3 and summarized on the attached Table 1. The complete laboratory analytical reports are included in Appendix B. Field notes and soil boring logs are included in Appendix C.

Since analytical sampling related to potholes PH13 through PH15, collected in April 2020, did not include all COCs, Ensolum was onsite on May 11 and June 16, 2022 to advance six potholes (PH01 through PH06) to confirm all COCs were in compliance with the Closure Criteria in the vicinty of potholes PH13 thorugh PH15.The delineation soil samples were field screened for VOCs and chloride. Following advancement of the six potholes, soil samples were collected from each location generally at the highest field screened location and deepest depth, which was 4 feet bgs. All soils samples from the May and June 2022 sampling events were submitted for laboratory analysis of BTEX, TPH, and chloride. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

Benzene, BTEX, TPH-GRO/TPH-DRO, and TPH concentrations were compliant with the most stringent Table I Closure Criteria in pothole samples PH01 and PH03 through PH06. Chloride was detected in

pothole PH02 at 4 feet bgs at a concentration that exceeded the Table I Closure Criteria; all other COCs were compliant with Table I Closure Criteria. Figure 3 depicts the sample locations and Table 1 summarizes the analytical results. The complete laboratory analytical reports are included in Appendix B. Soil boring logs are included in Appendix B.

PROPOSED REMEDIAL ACTIONS

Based on remedial actions completed to date at the Site related to the illegal dumping of produced water from an unknown third-party, there appears to be additional actions needed to address residual soil impacts at the Site. As a result, the following remedial actions are proposed to achieve closure of Incident Number NAB1836137253.

- Vertical delineation to the strictest Closure Criteria is required for releases greater than 200 bbls and where depth to water is estimated to be between 51 feet and 100 feet bgs. Chloride concentrations in the vicinity of potholes PH07 and PH08 at 18 feet bgs do not comply with the strictest Closure Criteria. As a result, a borehole via a hollow-stem auger (HSA) or similar technology will be advanced until vertical delineation is achieved. The location of the borehole is tentatively proposed between PH07 and PH08 and is depicted on Figure 3. Sampling will begin at 18 feet bgs and field screening will be completed every 2 feet until field screening indicates concentrations of COCs will be compliant with the strictest Closure Criteria. A soil sample at the terminus of the borehole will be sumbmitted for laboratory analysis of BTEX, TPH, and chloride.

- Based on ongoing conversations between XTO and NMOCD, excavation of the entire reserve pit does not appear warranted. Instead, XTO will remove the top 4 feet of soil above the reserved pit. Floor confirmation samples will be collected every 800 square feet (as previously approved) and analyzed for chloride only (as previous approved) and then install a 20-mil poly liner to provide environmental protections at the Site. Approximately 9,000 cubic yards are estimated to be excavated and transported to a New Mexico-permitted landfill. A liner approximately 46,000 square feet in areal extent will be installed over the reserve pit and up against the existing excavation east of the reserve pit. Sidewall confirmation samples will be collected along the outer edges of the excavation every 800 square feet (as previously approved) and analyzed for BTEX, TPH, and chloride.

- Additionally, impacts observed along the excavation sidewall in the southern portion of the excavation in the vicintity of confirmation sidewall soil samples SW01 and SW80 and the May 2022 pothole PH02 will be excavated and covered with a liner. Confirmation sampling for floor and sidewall samples will remain at the approved frequency of every 800 square feet. Composite floor soil samples will represent an 800 square foot area and will be analyzed for chloride. Composite sidewall samples will also represent an 800 square foot area and will be analyzed for BTEX, TPH, and chloride.

XTO will complete the excavation activities within 90 days of the date of approval of this *Work Plan Addendum* by the NMOCD. The vertical depth for delineation soil boring will be completed as soon as possible following approval from the surface landowner, receipt of the New Mexico Office of the State Engineer (NMOSE) drilling permit, and scheduling with a driller.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Tacoma Morrissey
Senior Geologist

Daniel R. Moir, PG
Senior Managing Geologist

cc: Garrett Green, XTO
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Excavation Soil Sample Locations
Figure 3	Proposed Remedial Actions
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix C	Field Notes and Soil Boring Logs
Appendix D	NMOCD Notifications
Appendix E	C-141 Notification

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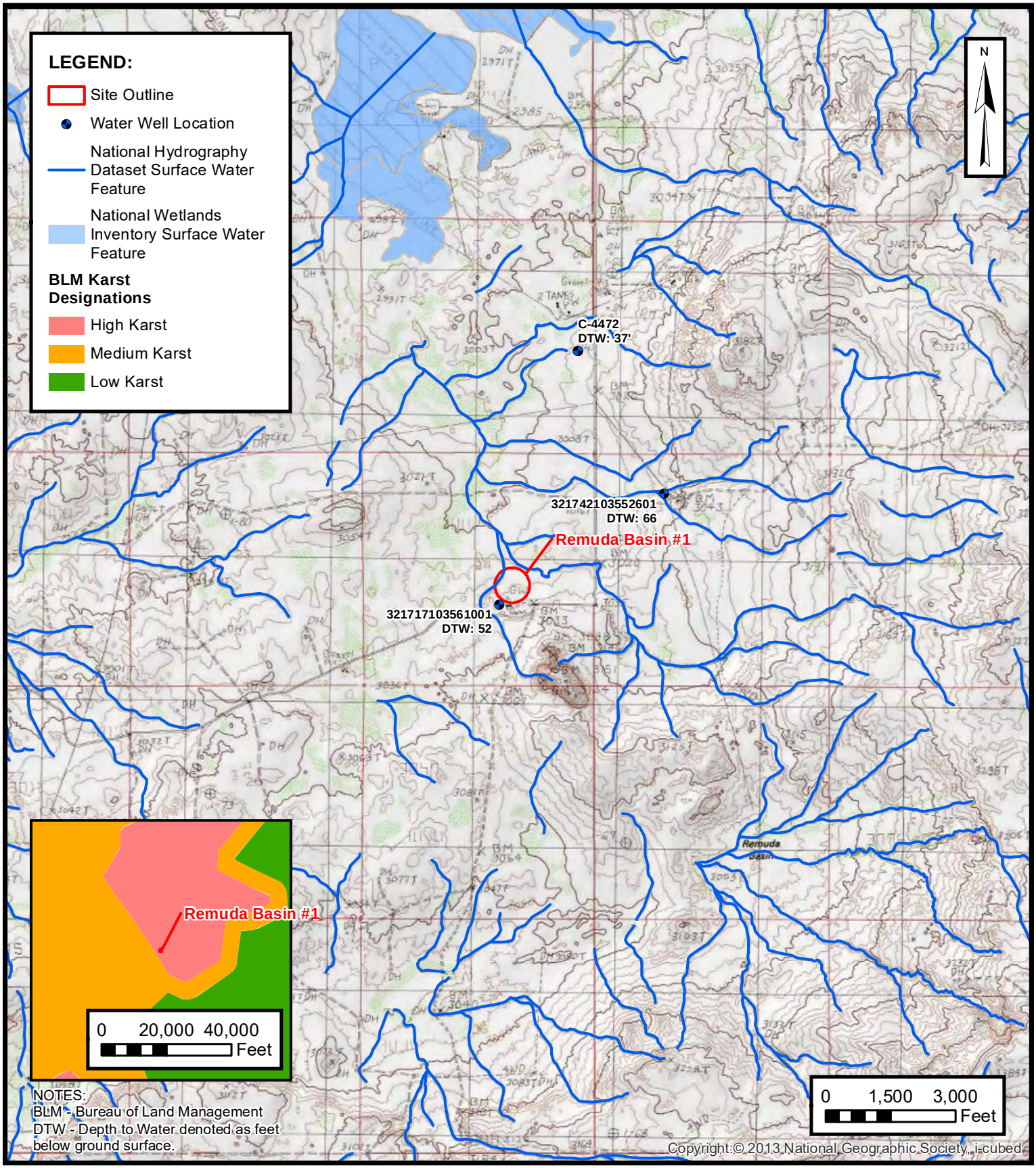
Figures



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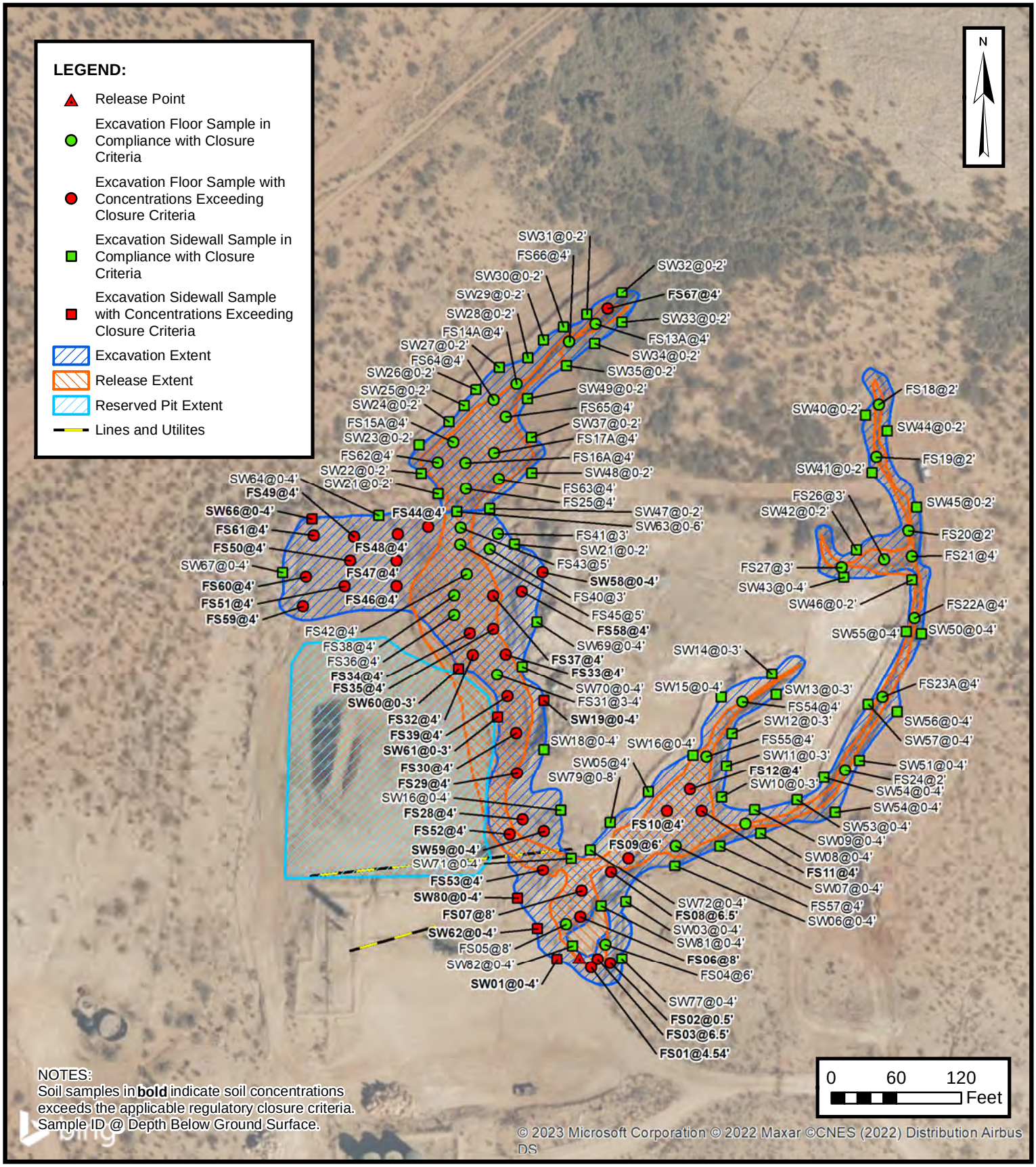
Environmental, Engineering and Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
REMUDA BASIN #1
NAB1836137253
Unit J, Sec 24, T23S, R29E
Eddy County, New Mexico

FIGURE

1



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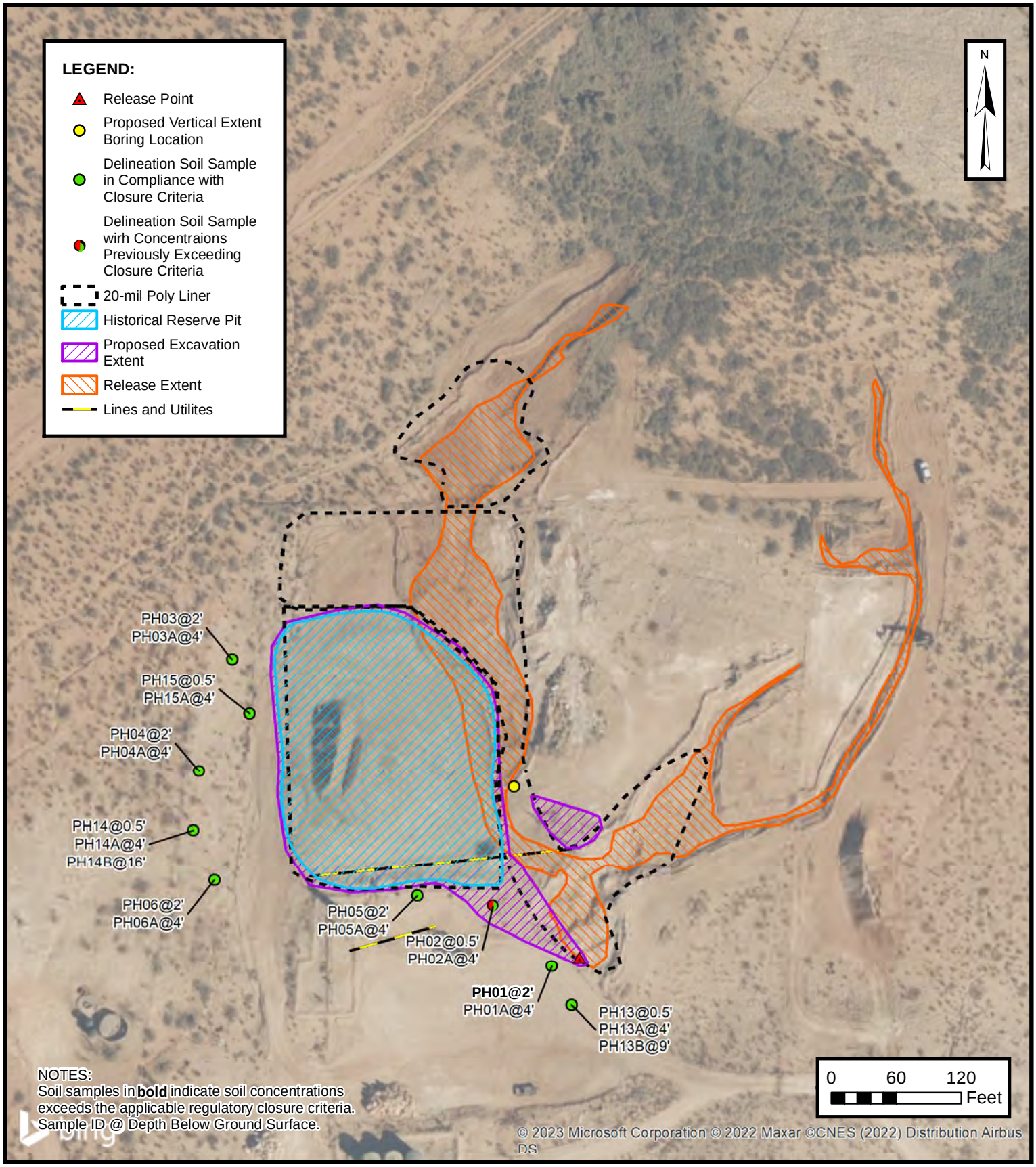
EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
REMUDA BASIN #1
Incident Number
Unit J, Sec 24, T23S, R29E
Eddy County, New Mexico

FIGURE
2



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Environmental, Engineering and Hydrogeologic Consultants

REMEDIAL ACTIONS

XTO ENERGY, INC
REMUDA BASIN #1
NAB1836137253
Unit J, Sec 24, T23S, R29E
Eddy County, New Mexico

FIGURE
3

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Tables

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin #1
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Soil Samples										
~~SS01~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~70~~	~~<49.8~~	~~70~~	~~70~~	~~**4,300**~~
~~SS02~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**6,170**~~
~~SS03~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**7,900**~~
~~SS04~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**4,910**~~
~~SS05~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**4,420**~~
~~SS06~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**3,890**~~
~~SS07~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**4,660**~~
~~SS08~~	~~12/19/2018~~	~~0.5~~	~~<0.00199~~	~~<0.00199~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**7,470**~~
~~SS09~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**5,500**~~
~~SS10~~	~~12/19/2018~~	~~0.5~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**7,780**~~
~~SS11~~	~~12/19/2018~~	~~0.5~~	~~<0.00201~~	~~<0.00201~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~<49.5~~	~~**2,110**~~
~~SS12~~	~~12/19/2018~~	~~0.5~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**5,650**~~
Delineation Soil Samples										
BH01	09/17/2021	1	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	18.4
BH01A	09/17/2021	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.4
BH02	09/17/2021	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
BH02A	09/17/2021	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	13.7
BH03	06/17/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH03A	06/17/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
BH04	06/18/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH04A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	16.9
BH05	06/18/2019	2	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.02
BH05A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	233
BH06	06/18/2019	2	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	7.00
BH06A	06/18/2019	4	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	5.14
BH07	06/18/2019	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	54.7
BH07A	06/18/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	144

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Remuda Basin #1
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
~~BH08~~	~~06/19/2019~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~1,280~~
~~BH08A~~	~~06/19/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,160**~~
BH08B	06/19/2019	8	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**619**
~~BH09~~	~~06/19/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,080**~~
BH09A	06/19/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.95
BH09B	06/19/2019	6	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	<25.2
~~PH01~~	~~06/13/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,720**~~
~~PH01A~~	~~06/13/2019~~	~~4~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,750**~~
~~PH02~~	~~06/13/2019~~	~~2~~	~~<0.00201~~	~~<0.00201~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**1,840**~~
PH02A	06/13/2019	12	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**4,720**
~~PH03~~	~~06/13/2019~~	~~1~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**5,420**~~
PH03A	06/14/2019	18	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**811**
~~PH04~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**8,260**~~
PH04A	06/14/2019	4	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	587
~~PH05~~	~~06/14/2019~~	~~1~~	~~<0.00201~~	~~<0.00201~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**3,380**~~
PH05A	06/14/2019	7	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**903**
~~PH06~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~<14.9~~	~~**904**~~
PH06A	06/14/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
~~PH07~~	~~06/14/2019~~	~~1~~	~~<0.00200~~	~~<0.00200~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~<15.0~~	~~**7,680**~~
PH07A	06/14/2019	18	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	**857**
PH08	06/17/2019	4	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	**8,860**
PH08A	06/18/2019	18	<0.00199	<0.00199	<15.0	20.0	<15.0	20.0	20.0	**4,410**
~~PH09~~	~~06/17/2019~~	~~2~~	~~<0.00199~~	~~<0.00199~~	~~<15.0~~	~~41.6~~	~~<15.0~~	~~41.6~~	~~41.6~~	~~**1,800**~~
PH09A	06/18/2019	17	<0.00200	<0.00200	<15.0	44.9	20.5	65.4	44.9	**1,210**
~~PH11~~	~~01/28/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~332~~
PH11A	01/28/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	475
PH12	02/27/2020	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,480**
PH12A	02/27/2020	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.4

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XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH13	04/20/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	485
PH13A	04/20/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	180
PH13B	04/20/2020	9.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	69.8
PH14	04/21/2020	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390
PH14A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	330
PH14B	04/21/2020	16.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	62.6
PH15	04/21/2020	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	301
PH15A	04/21/2020	4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	116
PH01	05/11/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	245
PH01A	05/11/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	41.6
PH02	05/11/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	204
PH02A	05/11/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**701**
PH03	05/11/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	207
PH03A	05/11/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	87.8
PH04	06/16/2022	2	<0.000389	0.00361	44.4	37.7	<14.9	82.1	82.1	110
PH04A	06/16/2022	4	<0.000386	<0.00101	36.8	30.9	<15.0	67.7	67.7	403
PH05	06/16/2022	2	<0.000385	0.0024	37.2	33.2	<15.0	70.4	70.4	504
PH05A	06/16/2022	4	<0.000383	0.00373	42	31.6	<15.0	73.6	73.6	384
PH06	06/16/2022	0.5	0.00365	0.0432	37.3	25.5	<15.0	62.8	62.8	270
PH06A	06/16/2022	4	<0.000384	<0.00101	<15.0	27.4	<15.0	27.4	27.4	165
Excavation Floor Samples										
FS01	01/13/2020	4.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**876**
FS02	01/13/2020	4.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	528
FS03	01/14/2020	6.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**635**
FS04	01/14/2020	6	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	450
FS05	01/14/2020	8	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	**713**
FS06	01/14/2020	8	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	**2,630**
FS07	01/14/2020	8	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	**2,210**
FS08	01/14/2020	6.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	**638**
FS09	01/14/2020	6	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	**1,710**

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Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS10	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,580**
FS11	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,930**
FS12	01/29/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
~~FS13~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~**864**~~
FS13A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.2
~~FS14~~	~~02/19/2020~~	~~2~~	~~<0.00202~~	~~<0.00202~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,680**~~
FS14A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	143
~~FS15~~	~~02/19/2020~~	~~2~~	~~<0.00198~~	~~<0.00198~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,340**~~
FS15A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	249
~~FS16~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**1,880**~~
FS16A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	262
~~FS17~~	~~02/19/2020~~	~~2~~	~~<0.00200~~	~~<0.00200~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,450**~~
FS17A	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	344
FS18	02/19/2020	2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	99.0
FS19	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	141
FS20	02/21/2020	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	428
FS21	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	394
FS22A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	170
FS23A	03/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**381**
~~FS24~~	~~02/21/2020~~	~~2~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**696**~~
~~FS24A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**740**~~
FS24C	10/04/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104
FS25	03/05/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	334
~~FS26~~	~~03/06/2020~~	~~3~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**981**~~
~~FS26A~~	~~04/07/2020~~	~~4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,390**~~
FS26B	04/09/2020	4 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.8
FS27	03/06/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	288
FS28	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**7,050**
FS29	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,930**
FS30	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,020**

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS31	03/09/2020	3 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	415
FS32	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,900**
FS33	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS34	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,700**
FS35	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**650**
FS36	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	203
FS37	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,160**
FS38	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	584
FS39	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,980**
FS40	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	576
FS41	03/09/2020	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	375
FS42	03/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	550
FS43	03/09/2020	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64.8
FS44	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,710**
FS45	04/07/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,870**
FS46	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,010**
FS47	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,160**
FS48	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,450**
FS49	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,410**
FS50	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,520**
FS51	03/19/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,650**
FS52	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4,130**
FS53	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**3,310**
FS54	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56.1
FS55	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	37.5
FS56	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.6
FS57	03/27/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.6
FS58	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	373
FS59	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,900**
FS60	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,230**

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS61	04/06/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1,360**
FS62	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118
FS63	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	237
FS64	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
FS65	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	325
FS66	04/08/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	299
FS67	04/09/2020	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,290**
Excavation Sidewall Samples										
SW01	01/13/2020	0 - 4	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	**1,520**
~~SW02~~	~~01/13/2020~~	~~0 - 4~~	~~<0.00198~~	~~<0.00198~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**717**~~
SW03	01/14/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	273
~~SW04~~	~~01/14/2020~~	~~0 - 5~~	~~<0.00201~~	~~<0.00201~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~<50.2~~	~~**744**~~
SW05	02/03/2020	0 - 4	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	222
SW06	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	101
SW07	02/03/2020	0 - 4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	22.7
SW08	02/03/2020	0 - 4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	255
SW09	02/03/2020	0 - 4	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	40.6
SW10	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	102
SW11	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	21.0
SW12	02/03/2020	0 - 3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	419
SW13	02/03/2020	0 - 3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	136
SW14	02/03/2020	0 - 3	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	115
SW15	02/03/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	67.6
SW16	02/03/2020	0 - 4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	135
~~SW17~~	~~02/04/2020~~	~~0 - 3~~	~~<0.00200~~	~~<0.00200~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~334~~
SW18	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	575
SW19	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**654**
~~SW20~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**660**~~
SW21	02/18/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	101
SW22	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	177

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TABLE 1
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Remuda Basin #1
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW23	02/14/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	343
SW24	02/14/2020	0 - 2	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	559
SW25	02/14/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	529
SW26	02/18/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	407
SW27	02/18/2020	0 - 2	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	48.7
SW28	02/18/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	222
SW29	02/18/2020	0 - 2	<0.0000199	<0.0000199	<50.1	<50.1	<50.1	<50.1	<50.1	464
SW30	02/19/2020	0 - 2	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	523
SW31	02/19/2020	0 - 2	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	36.0
SW32	02/19/2020	0 - 2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	194
SW33	02/19/2020	0 - 2	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	133
SW34	02/19/2020	0 - 2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	82.9
SW35	02/19/2020	0 - 2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	82.6
~~SW36~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00199~~	~~<0.00199~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~1,350~~
SW37	02/19/2020	0 - 2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	356
~~SW38~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00198~~	~~<0.00198~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~<50.3~~	~~1,070~~
~~SW39~~	~~02/19/2020~~	~~0 - 2~~	~~<0.00200~~	~~<0.00200~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~946~~
SW40	02/19/2020	0 - 2	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	<9.94
SW41	02/19/2020	0 - 2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	102
SW42	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15.3
SW43	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	351
SW44	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54.1
SW45	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	154
SW46	02/21/2020	0 - 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.6
SW47	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	400
SW48	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	524
SW49	02/28/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	82.0
SW50	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	216
SW51	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	368
SW52	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	176

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Remuda Basin #1
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW53	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	442
SW54	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	153
SW55	03/05/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	527
SW56	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	196
SW57	03/06/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	459
SW58	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259
SW59	04/15/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,650**
SW60	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,380**
SW61	03/09/2020	0 - 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,400**
SW62	05/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5,910**
SW63	03/19/2020	0 - 6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58.7
SW64	03/19/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	498
~~SW65~~	~~04/17/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**628**~~
SW66	04/07/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2,140**
SW67	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	371
~~SW68~~	~~03/24/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,140**~~
SW69	03/24/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	127
SW70	03/26/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	148
SW71	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	221
SW72	04/21/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	387
~~SW74~~	~~03/27/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**738**~~
~~SW75~~	~~03/27/2020~~	~~0 - 6~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**797**~~
~~SW76~~	~~04/06/2020~~	~~0 - 4~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**677**~~
SW77	04/08/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	276
~~SW78~~	~~04/08/2020~~	~~0 - 8~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~N/A~~	~~**1,070**~~
SW79	04/09/2020	0 - 8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	235

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Remuda Basin #1
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SW80	04/09/2020	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**963**
SW81	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	242
SW82	10/04/2021	0 - 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	259

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table I Closure Criteria
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
~~Gray~~ text indicates sample location has been excavated and is no longer present

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APPENDIX A

Photographic Log

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Photographic Log
XTO Energy, Inc.
Remuda Basin #1
Incident Number NAB1836137253

Photograph 1 Date: 4/14/2020
Description: Soutwestern excavation area, view southwest

Photograph 2 Date: 4/14/2020
Description: Southeastern excavation area, view southeast

Photograph 3 Date: 4/14/2020
Description: Northwestern excavation area, view northeast

Photograph 4 Date: 4/14/2020
Description: Northeastern excavation area, view northeast

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Photographic Log
XTO Energy, Inc.
Remuda Basin #1
Incident Number NAB1836137253

Photograph 5 Date: 4/14/2020
Description: Northeastern excavation area, middle, view northwest

Photograph 6 Date: 4/14/2020
Description: Northeastern excavation area, view south

Photograph 7 Date: 2/22/2022
Description: Backfilled eastern portion of excavation, view northeast

Photograph 8 Date: 2/22/2022
Description: Backfilled northern portion of excavation, view north

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Photographic Log
XTO Energy, Inc.
Remuda Basin #1
Incident Number NAB1836137253

Photograph 9 Date: 2/22/2022
Description: Backfilled southeastern portion of excavation, view north

Photograph 10 Date: 2/22/2022
Description: Backfilled southwestern portion of excavation, view northeast

Photograph 11 Date: 6/16/2022
Description: Potholing on west side of reserved pit, view southwest

Photograph 12 Date: 6/16/2022
Description: Potholing on south side of reserve pit, view southwest

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APPENDIX C

Field Notes and Soil Boring Logs

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120

Location Remuda Basin #1 Date 4/20/20

Project / Client XTO

[32.285957, -103.938317]

0800	LTE onsite. Unlimited onsite (x3) w/ Front loader + Trackhoe			
0820	Finished JSA, JSC, completed site walkthrough			
0830	Completed safety meeting			
0850	Calibrate PID Cal = 100.1 ppm Bump = 101.8 ppm			
Point (ft) BH13	Time	PID (ppm)	CHC ppm	Description
★ 0.5	1007	0.0	348	see Boring Logs for more SWSM
– 2.0	1012	0.0	280	SWSM
★ 4.0	1028	0.0	168	CCHE
– 8.0	1134	0.0	280	CCHE
★ 9.0	1454	0.2	124	CCHE

★ - submitted sample

– - discarded sample

very hard caliche layer, becoming more compact and requiring longer to go through as depth increases

1515 LTE offsite Unlimited Signal to secure site

Equipment - 7140, 4975, PID, (7)/CPTFx5 CCHSR, ICE Nun

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Location

Project / Client

Scale

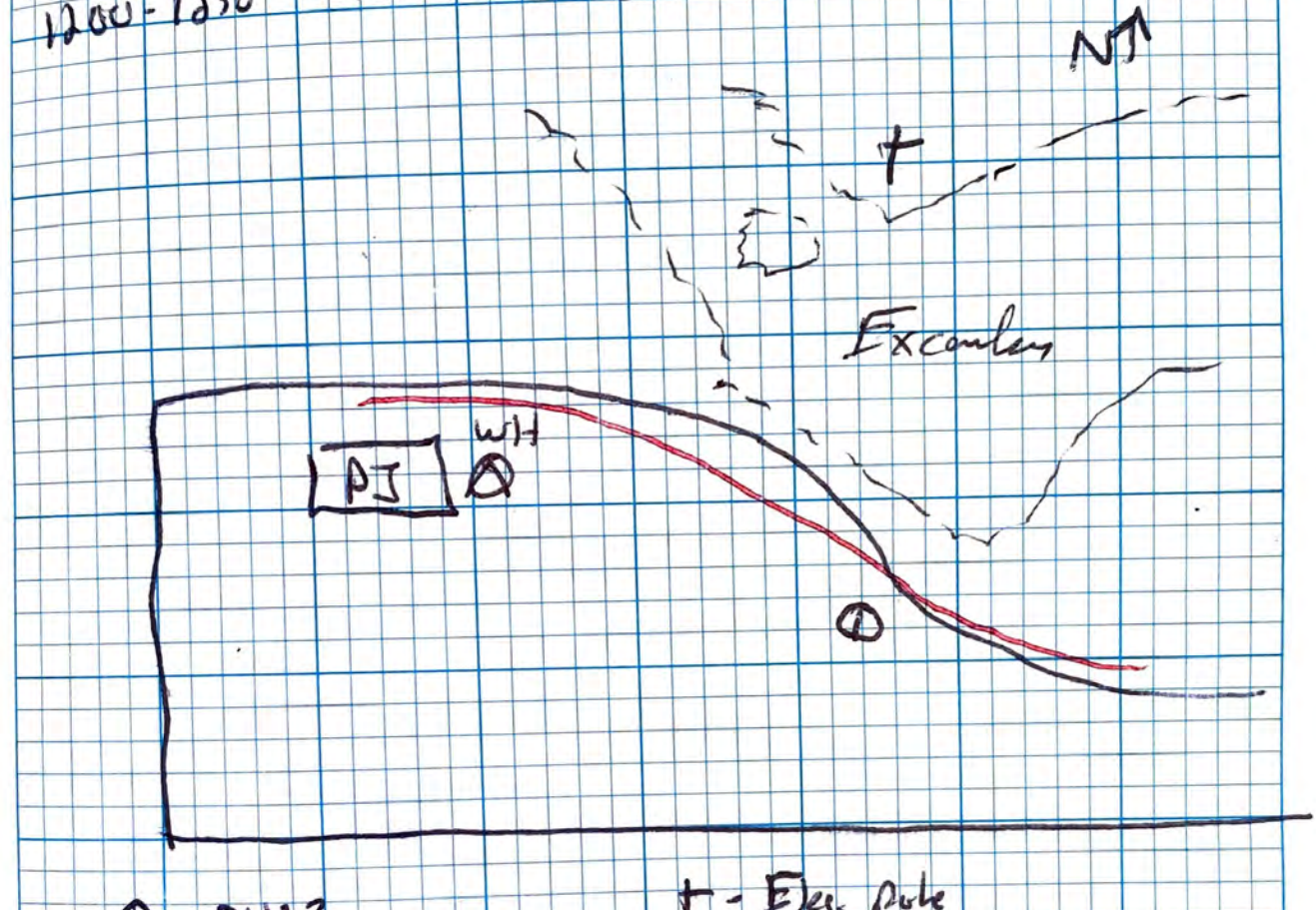
Date

1035 Arrive Area Unlimited onsite. Spoke w/ Kent getting hammer for cobble layers.

1050 ~~Arrive offsite~~

~~1200-1230~~

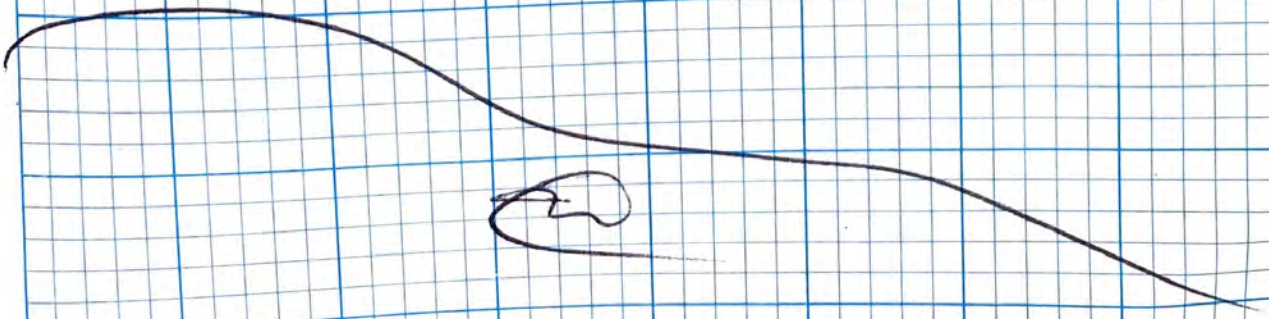
1200-1230 Unlimited lunch



① - PH13

T - Elec. pole

⌐¬ - above ground pipe



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LT Environmental, Inc.
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Carlsbad, New Mexico 88220
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BH or PH Name: PH16 14	Date: 4/07/20
Site Name:	Remuda Basin #1
RP or Incident Number:	2RP-5135
LTE Job Number:	12919001
Logged By: JH	Method: Track Hoe
Hole Diameter: 2.0'	Total Depth: 16'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long: 32.285957, -103.938317
Field Screening: Hatch Chloride Strips, PID
Comments: Track Hoe, 4:1 dilution method for chlorides
NO = No odor, NP = No plasticity, LP = low plast, MP = mod. plasticity, HP = high plasticity TOP 16'

	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
1117	D	BDL	0.2	N		0.5	0–1	SP	Poorly graded fine sand. NO, NP, Org. Brown/red
1120	D	348	0.1	N	PH16 14	2.0	2	SW-SM	Well graded (fine-med) sand w/ gravel & silt. NO, NP, Org Brown/red
1122	D	~~0.2~~ ~~BDL~~ 312	0.1	N	PH16A MA C	4.0	4		" "
1232	D	BDL	1.0	N		8.0	8	CCHE	Well graded (med-coarse) w/ gravel & silt. NO, NP, No org. Tan/grey
	4/7/20						10		
1235	D	BDL	0.5	N		12.0 ~~0.5~~	12	CCHE	Well graded (med-coarse) w/ gravel & silt. NO, NP. No org Tan/grey

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BH or PH Name: ~~PH16~~ PH14	Date: 4/17/20
Site Name:	Remuda Basin #1
RP or Incident Number:	2RP-5135
LTE Job Number:	12919001
Logged By:	Method: Track Hoe
Lat/Long: 32.285957, -103.938317	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 2.0'	Total Depth: 16'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Track Hoe, 4:1 dilution method for chlorides

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					see previous page for 12.0'	12		
						13		
						14		
						15		
D	BDL	1.0	N	PH14B ~~PH16B~~	16'	16	CCHE	well graded (med-coarse) sand + little gravel. NO, NP, No Og. lt. Br/tan/~~reddish~~ gray
						17		TD @ 16'
						18		
						19		
						20		
						21		
						22		
						23		
						24		

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BH or PH Name: PH15 ~~PH1T~~	Date: 4/21/20
Site Name:	Remuda Basin #1
RP or Incident Number:	2RP-5135
LTE Job Number:	12919001
Logged By: JH	Method: Track Hoe
Lat/Long: 32.285957, -103.938317	Field Screening: Hatch Chloride Strips, PID
Hole Diameter: 2.0'	Total Depth: 4.0'

LITHOLOGIC / SOIL SAMPLING LOG

Comments: Track Hoe, 4:1 dilution method for chlorides

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	454	0.8	N	PH15	0.5	0	SP	Poorly graded fine sand. NO, NP, Org
						1		red/Brn
D	312	0.3	N		2.0	2	~~GCHF~~ SCSM	well graded (fine-med ~~medium~~) sand w/ silt & gravel. NO, NP, Org
						3		Brown/tan
D	312	0.1	N	PH15A	4.0	4	CLHF	well graded (med-coarse) sand & silt. NO, NP, Org
						5		lt. Brn/gray
						6		TD @ 4.0'
						7		
						8		
						9		
						10		
						11		
						12		

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	Sample Name: PH01	Date: 5/11/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
dry	168	NA	n			0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	280	NA	n	PH01	2'	2		
						2.5		
						3		
						3.5		
m	<168	NA	n	PH01A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum
								TD = 4 feet bgs

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	Sample Name: PH02	Date: 5/11/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
dry	420	NA	n	PH02	0.5'	0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	<168	NA	n			2		
						2.5		
						3		
						3.5		
m	593.6	NA	n	PH02A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum
								TD = 4 feet bgs

ENSOLUM	Sample Name: PH03	Date: 5/11/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
d	<168	NA	n			0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	240.8	NA	n	PH03	2'	2		
						2.5		
						3		
						3.5		
m	<168	NA	n	PH03A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum TD = 4 feet bgs

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	Sample Name: PH04	Date: 6/16/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: LC	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
d	168	NA	n			0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	280	NA	n	PH04	2'	2		
						2.5		
						3		
						3.5		
m	168	NA	n	PH04A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum TD = 4 feet bgs

ENSOLUM

	Sample Name: PH05	Date: 6/16/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: LC	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
d	168	NA	n			0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	800.8	NA	n	PH05	2'	2		
						2.5		
						3		
						3.5		
m	201.6	NA	n	PH05A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum TD = 4 feet bgs

ENSOLUM

	Sample Name: PH06	Date: 6/16/2022
	Site Name: Remuda Basin #1	
	Incident Number: NAB1836137253	
	Job Number: XTO Energy, Inc.:03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: LC	Method: backhoe
Coordinates:	Hole Diameter: n/a	Total Depth:

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
d	341.6	NA	n	PH06	0.5'	0.5	SP	SAND, poorly graded fine grained, reddish brown, dry, no odor or staining
						1		
						1.5		
m	280	NA	n			2		
						2.5		
						3		
						3.5		
m	201.6	NA	n	PH06A	4'	4	SP	SAND, poorly graded fine grained, trace silt, grayish brown, moist, no odor or staining, trace gypsum TD = 4 feet bgs

ENSOLUM

APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1367-1
Laboratory Sample Delivery Group: te012919001
Client Project/Site: Remuda Basin Battery #1

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
10/14/2021 4:03:10 PM

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

LINKS
Review your project results through TotalAccess
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Laboratory Job ID: 890-1367-1
SDG: te012919001

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1367-1
Project/Site: Remuda Basin Battery #1 SDG: te012919001

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Job ID: 890-1367-1
SDG: te012919001

Job ID: 890-1367-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1367-1

Receipt

The samples were received on 10/6/2021 8:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Job ID: 890-1367-1
SDG: te012919001

Client Sample ID: SW81
Lab Sample ID: 890-1367-1

Date Collected: 10/04/21 12:05
Matrix: Solid
Date Received: 10/06/21 08:20
Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		5.00		mg/Kg			10/14/21 12:46	1

Client Sample ID: SW82
Lab Sample ID: 890-1367-2

Date Collected: 10/04/21 12:10
Matrix: Solid
Date Received: 10/06/21 08:20
Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.00		mg/Kg			10/14/21 12:53	1

Client Sample ID: FS24C
Lab Sample ID: 890-1367-3

Date Collected: 10/04/21 12:45
Matrix: Solid
Date Received: 10/06/21 08:20
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.05		mg/Kg			10/14/21 13:00	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Job ID: 890-1367-1
SDG: te012919001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9197/1-A
Matrix: Solid
Analysis Batch: 9365

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/13/21 19:44	1

Lab Sample ID: LCS 880-9197/2-A
Matrix: Solid
Analysis Batch: 9365

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255.3		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-9197/3-A
Matrix: Solid
Analysis Batch: 9365

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	258.7		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-1365-A-41-B MS
Matrix: Solid
Analysis Batch: 9365

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	63.2		248	318.1		mg/Kg		103	90 - 110		

Lab Sample ID: 890-1365-A-41-C MSD
Matrix: Solid
Analysis Batch: 9365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	63.2		248	318.0		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Job ID: 890-1367-1
SDG: te012919001

HPLC/IC

Leach Batch: 9197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1367-1	SW81	Soluble	Solid	DI Leach	
890-1367-2	SW82	Soluble	Solid	DI Leach	
890-1367-3	FS24C	Soluble	Solid	DI Leach	
MB 880-9197/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9197/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9197/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1365-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1365-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 9365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1367-1	SW81	Soluble	Solid	300.0	9197
890-1367-2	SW82	Soluble	Solid	300.0	9197
890-1367-3	FS24C	Soluble	Solid	300.0	9197
MB 880-9197/1-A	Method Blank	Soluble	Solid	300.0	9197
LCS 880-9197/2-A	Lab Control Sample	Soluble	Solid	300.0	9197
LCSD 880-9197/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9197
890-1365-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	9197
890-1365-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9197

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1367-1
Project/Site: Remuda Basin Battery #1 SDG: te012919001

Client Sample ID: SW81 Lab Sample ID: 890-1367-1

Date Collected: 10/04/21 12:05 **Matrix: Solid**
Date Received: 10/06/21 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1	9365	10/14/21 12:46	CH	XEN MID

Client Sample ID: SW82 Lab Sample ID: 890-1367-2

Date Collected: 10/04/21 12:10 **Matrix: Solid**
Date Received: 10/06/21 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1	9365	10/14/21 12:53	CH	XEN MID

Client Sample ID: FS24C Lab Sample ID: 890-1367-3

Date Collected: 10/04/21 12:45 **Matrix: Solid**
Date Received: 10/06/21 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9197	10/11/21 11:24	CH	XEN MID
Soluble	Analysis	300.0		1	9365	10/14/21 13:00	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1367-1
Project/Site: Remuda Basin Battery #1 SDG: te012919001

Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1367-1
Project/Site: Remuda Basin Battery #1 SDG: te012919001

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Remuda Basin Battery #1

Job ID: 890-1367-1
SDG: te012919001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1367-1	SW81	Solid	10/04/21 12:05	10/06/21 08:20	0 - 4
890-1367-2	SW82	Solid	10/04/21 12:10	10/06/21 08:20	0 - 4
890-1367-3	FS24C	Solid	10/04/21 12:45	10/06/21 08:20	4

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Chain of Custody

XENCO LABORATORIES

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)

Work Order No: _____

www.xenco.com Page 1 of 1

10/14/2021

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Kyle Littrell
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Alexis.Castro@wsp.com Tacoma.Morrissey@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin Battery #1	Turn Around	
Project Number:	TE012919001	Routine	☑
P.O. Number:	4/27/2014	Rush:	
Sampler's Name:	Alexis Castro	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.0/2.8	Thermometer ID	TWM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SW81	S	10/04/21	1205	0-4'	1			x	COMPOSITE
SW82	S	10/04/21	1210	0-4'	1			x	COMPOSITE
FS24C	S	10/04/21	1245	4'	1			x	COMPOSITE

890-1367 Chain of Custody

Work Order Notes

ID: NHMP1413240586
API: 30-015-03691

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

Page 12 of 15

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 Tl 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 Tl 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 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
1		10.16.21 0816	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM

Released to Imaging: 4/14/2026 8:09:55 AM

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s).	COC No: 890-450 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1367-1
Address: 1211 W Florida Ave ,	Due Date Requested: 10/12/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Remuda Basin Battery #1	Project #: 89000004			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SW81 (890-1367-1)	10/4/21	12 05 Mountain		Solid			X	1	
SW82 (890-1367-2)	10/4/21	12 10 Mountain		Solid			X	1	
FS24C (890-1367-3)	10/4/21	12 45 Mountain		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Clove Cuf 10.6.21	10/6/21 14 00	Xenco			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

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Received by OCD: 12/11/2025 7:09:27 AM
10/14/2021
Page 13 of 15
Released to Imaging: 4/14/2026 8:09:55 AM

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1367-1
SDG Number: te012919001

Login Number: 1367
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1367-1
SDG Number: te012919001

Login Number: 1367
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 10/06/21 01:59 PM

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

Analytical Report 609801

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Remuda Basin 001

012918058

04-JAN-19

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

Released to Imaging: 4/14/2026 8:09:55 AM

04-JAN-19

Project Manager: **Adrian Baker**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **609801**
Remuda Basin 001
Project Address: Delaware Basin

Adrian Baker:

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 XENCO Report Number(s) 609801. 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 XENCO Laboratories. 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. 609801 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	12-19-18 09:30	0.5 ft	609801-001
SS02	S	12-19-18 09:40	0.5 ft	609801-002
SS03	S	12-19-18 09:50	0.5 ft	609801-003
SS04	S	12-19-18 10:05	0.5 ft	609801-004
SS05	S	12-19-18 10:30	0.5 ft	609801-005
SS06	S	12-19-18 10:40	0.5 ft	609801-006
SS07	S	12-19-18 11:00	0.5 ft	609801-007
SS08	S	12-19-18 11:10	0.5 ft	609801-008
SS09	S	12-19-18 11:25	0.5 ft	609801-009
SS10	S	12-19-18 11:40	0.5 ft	609801-010
SS11	S	12-19-18 11:55	0.5 ft	609801-011
SS12	S	12-19-18 12:05	0.5 ft	609801-012

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012918058*
Work Order Number(s): *609801*

Report Date: *04-JAN-19*
Date Received: *12/27/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3074494 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 609801-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 609801-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Received by OCD: 12/11/2025 7:09:27 AM

Certificate of Analysis Summary 609801

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012918058
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Thu Dec-27-18 11:36 am
Report Date: 04-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609801-001		609801-002		609801-003		609801-004		609801-005		609801-006	
	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:	Dec-19-18 09:30		Dec-19-18 09:40		Dec-19-18 09:50		Dec-19-18 10:05		Dec-19-18 10:30		Dec-19-18 10:40	
BTEX by EPA 8021B	***Extracted:***	Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00	
	Analyzed:	Jan-01-19 01:38		Jan-01-19 01:57		Jan-01-19 02:16		Jan-01-19 02:35		Jan-01-19 02:54		Jan-01-19 03:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00398	0.00398	<0.00403	0.00403	<0.00402	0.00402	<0.00399	0.00399	<0.00400	0.00400	<0.00402	0.00402
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30	
	Analyzed:	Jan-03-19 11:40		Jan-03-19 11:46		Jan-03-19 11:52		Jan-03-19 11:58		Jan-03-19 12:04		Jan-03-19 12:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4300	50.1	6170	50.1	7900	49.5	4910	49.5	4420	25.1	3890	49.5
TPH by SW8015 Mod SUB: T104704215-18-28	***Extracted:***	Dec-28-18 16:29		Dec-28-18 16:32		Dec-28-18 16:35		Dec-28-18 16:38		Dec-28-18 16:41		Dec-28-18 16:44	
	Analyzed:	Jan-04-19 09:45		Dec-29-18 16:00		Dec-29-18 16:21		Dec-29-18 16:43		Dec-29-18 17:05		Jan-04-19 10:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		70.3	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9
Total TPH		70.3	49.8	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Version: 1.%

Jessica Kramer
Project Assistant

Released to Imaging: 4/14/2026 8:09:55 AM

Certificate of Analysis Summary 609801

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012918058
Contact: Adrian Baker
Project Location: Delaware Basin

Date Received in Lab: Thu Dec-27-18 11:36 am
Report Date: 04-JAN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	609801-007		609801-008		609801-009		609801-010		609801-011		609801-012	
	Field Id:	SS07		SS08		SS09		SS10		SS11		SS12	
	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:	Dec-19-18 11:00		Dec-19-18 11:10		Dec-19-18 11:25		Dec-19-18 11:40		Dec-19-18 11:55		Dec-19-18 12:05	
BTEX by EPA 8021B	***Extracted:***	Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00		Dec-31-18 13:00	
	Analyzed:	Jan-01-19 03:32		Jan-01-19 03:51		Jan-01-19 04:10		Jan-01-19 04:29		Jan-01-19 05:43		Jan-01-19 06:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398	<0.00400	0.00400	<0.00403	0.00403	<0.00402	0.00402	<0.00400	0.00400
o-Xylene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 08:30		Jan-03-19 10:30		Jan-03-19 10:30		Jan-03-19 10:30	
	Analyzed:	Jan-03-19 12:17		Jan-03-19 12:23		Jan-03-19 12:29		Jan-03-19 19:31		Jan-03-19 19:37		Jan-03-19 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4660	49.9	7470	50.0	5500	49.5	7780	99.4	2110	25.0	5650	49.6
TPH by SW8015 Mod SUB: T104704215-18-28	***Extracted:***	Dec-28-18 16:47		Dec-28-18 16:50		Dec-28-18 16:53		Dec-28-18 16:56		Dec-28-18 16:59		Dec-28-18 17:02	
	Analyzed:	Dec-29-18 17:48		Dec-29-18 18:09		Dec-29-18 18:31		Dec-29-18 18:53		Jan-04-19 10:28		Jan-02-19 18:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.5	49.5	<50.0	50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-001	Date Collected:	12.19.18 09.30	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4300**	50.1	mg/kg	01.03.19 11.40		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.29	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.04.19 09.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**70.3**	49.8	mg/kg	01.04.19 09.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.04.19 09.45	U	1
Total TPH	PHC635	**70.3**	49.8	mg/kg	01.04.19 09.45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	01.04.19 09.45	
o-Terphenyl	84-15-1	108	%	70-135	01.04.19 09.45	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-001	Date Collected:	12.19.18 09.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.01.19 01.38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.01.19 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.01.19 01.38	
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.01.19 01.38	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-002	Date Collected:	12.19.18 09.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6170**	50.1	mg/kg	01.03.19 11.46		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.32	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.18 16.00	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.29.18 16.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.29.18 16.00	
o-Terphenyl	84-15-1	114	%	70-135	12.29.18 16.00	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-002	Date Collected:	12.19.18 09.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.01.19 01.57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.01.19 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	01.01.19 01.57	
1,4-Difluorobenzene	540-36-3	116	%	70-130	01.01.19 01.57	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-003	Date Collected:	12.19.18 09.50	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7900**	49.5	mg/kg	01.03.19 11.52		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.35	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.29.18 16.21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.29.18 16.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.29.18 16.21	
o-Terphenyl	84-15-1	135	%	70-135	12.29.18 16.21	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-003	Date Collected:	12.19.18 09.50	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 02.16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 02.16	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.01.19 02.16	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-004	Date Collected:	12.19.18 10.05	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4910**	49.5	mg/kg	01.03.19 11.58		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.38	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.29.18 16.43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.29.18 16.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	12.29.18 16.43	
o-Terphenyl	84-15-1	118	%	70-135	12.29.18 16.43	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-004	Date Collected:	12.19.18 10.05	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.01.19 02.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 02.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 02.35	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 02.35	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-005	Date Collected:	12.19.18 10.30	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4420**	25.1	mg/kg	01.03.19 12.04		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.41	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 17.05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 17.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.29.18 17.05	
o-Terphenyl	84-15-1	128	%	70-135	12.29.18 17.05	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS05**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-005	Date Collected:	12.19.18 10.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 02.54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	01.01.19 02.54	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.01.19 02.54	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-006	Date Collected:	12.19.18 10.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3890**	49.5	mg/kg	01.03.19 12.10		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.44	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.04.19 10.06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.04.19 10.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	01.04.19 10.06	
o-Terphenyl	84-15-1	104	%	70-135	01.04.19 10.06	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS06**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-006	Date Collected:	12.19.18 10.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 03.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 03.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 03.13	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 03.13	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-007	Date Collected:	12.19.18 11.00	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4660**	49.9	mg/kg	01.03.19 12.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.47	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 17.48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 17.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.29.18 17.48	
o-Terphenyl	84-15-1	118	%	70-135	12.29.18 17.48	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS07**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-007	Date Collected:	12.19.18 11.00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 03.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 03.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 03.32	
4-Bromofluorobenzene	460-00-4	98	%	70-130	01.01.19 03.32	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-008	Date Collected:	12.19.18 11.10	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7470**	50.0	mg/kg	01.03.19 12.23		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.50	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.18 18.09	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.29.18 18.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.29.18 18.09	
o-Terphenyl	84-15-1	130	%	70-135	12.29.18 18.09	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS08**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-008	Date Collected:	12.19.18 11.10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.01.19 03.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.01.19 03.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	01.01.19 03.51	
4-Bromofluorobenzene	460-00-4	102	%	70-130	01.01.19 03.51	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-009	Date Collected:	12.19.18 11.25	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 08.30	Basis:	Wet Weight
Seq Number:	3074625				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5500**	49.5	mg/kg	01.03.19 12.29		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.53	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 18.31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 18.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.29.18 18.31	
o-Terphenyl	84-15-1	117	%	70-135	12.29.18 18.31	

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Remuda Basin 001

Sample Id:	**SS09**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-009	Date Collected:	12.19.18 11.25	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 04.10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 04.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 04.10	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 04.10	

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Remuda Basin 001

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-010	Date Collected:	12.19.18 11.40	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7780**	99.4	mg/kg	01.03.19 19.31		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.56	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.29.18 18.53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.29.18 18.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.29.18 18.53	
o-Terphenyl	84-15-1	125	%	70-135	12.29.18 18.53	

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LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS10**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-010	Date Collected:	12.19.18 11.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.01.19 04.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.01.19 04.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	118	%	70-130	01.01.19 04.29	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.01.19 04.29	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS11**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-011	Date Collected:	12.19.18 11.55	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2110**	25.0	mg/kg	01.03.19 19.37		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 16.59	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.5	49.5	mg/kg	01.04.19 10.28	U	1
Total TPH	PHC635	<49.5	49.5	mg/kg	01.04.19 10.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.04.19 10.28	
o-Terphenyl	84-15-1	124	%	70-135	01.04.19 10.28	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS11**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-011	Date Collected:	12.19.18 11.55	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.01.19 05.43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.01.19 05.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.01.19 05.43	
1,4-Difluorobenzene	540-36-3	115	%	70-130	01.01.19 05.43	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS12**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-012	Date Collected:	12.19.18 12.05	Sample Depth:	0.5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	01.03.19 10.30	Basis:	Wet Weight
Seq Number:	3074716				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5650**	49.6	mg/kg	01.03.19 19.59		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ISU			% Moisture:	
Analyst:	ISU	Date Prep:	12.28.18 17.02	Basis:	Wet Weight
Seq Number:	3074496			SUB:	T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.02.19 18.01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.02.19 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	01.02.19 18.01	
o-Terphenyl	84-15-1	113	%	70-135	01.02.19 18.01	

Certificate of Analytical Results 609801

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SS12**	Matrix:	Soil	Date Received:	12.27.18 11.36
Lab Sample Id:	609801-012	Date Collected:	12.19.18 12.05	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	12.31.18 13.00	Basis:	Wet Weight
Seq Number:	3074494				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.01.19 06.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.01.19 06.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	01.01.19 06.03	
4-Bromofluorobenzene	460-00-4	101	%	70-130	01.01.19 06.03	

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.

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

QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Solid Date Prep: 01.03.19
MB Sample Id: 7669102-1-BLK LCS Sample Id: 7669102-1-BKS LCSD Sample Id: 7669102-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	240	96	90-110	3	20	mg/kg	01.03.19 09:11	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Solid Date Prep: 01.03.19
MB Sample Id: 7669107-1-BLK LCS Sample Id: 7669107-1-BKS LCSD Sample Id: 7669107-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	264	106	90-110	1	20	mg/kg	01.03.19 18:48	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-001 MS Sample Id: 609803-001 S MSD Sample Id: 609803-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	54.3	251	314	103	296	96	90-110	6	20	mg/kg	01.03.19 09:30	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074625 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-002 MS Sample Id: 609803-002 S MSD Sample Id: 609803-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.8	250	300	94	314	99	90-110	5	20	mg/kg	01.03.19 11:12	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609803-003 MS Sample Id: 609803-003 S MSD Sample Id: 609803-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	54.6	251	356	120	360	122	90-110	1	20	mg/kg	01.03.19 19:06	X

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

QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3074716 Matrix: Soil Date Prep: 01.03.19
Parent Sample Id: 609805-001 MS Sample Id: 609805-001 S MSD Sample Id: 609805-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.8	249	277	99	297	107	90-110	7	20	mg/kg	01.03.19 20:36	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074496 Matrix: Solid Date Prep: 12.28.18
MB Sample Id: 7668903-1-BLK LCS Sample Id: 7668903-1-BKS LCSD Sample Id: 7668903-1-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	778	78	802	80	70-135	3	35	mg/kg	12.29.18 14:34	
Diesel Range Organics (DRO)	<50.0	1000	947	95	1030	103	70-135	8	35	mg/kg	12.29.18 14:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		90		94		70-135	%	12.29.18 14:34
o-Terphenyl	91		91		102		70-135	%	12.29.18 14:34

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3074496 Matrix: Soil Date Prep: 12.28.18
Parent Sample Id: 609806-008 MS Sample Id: 609806-008 S MSD Sample Id: 609806-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.7	994	896	90	853	86	70-135	5	35	mg/kg	01.02.19 21:15	
Diesel Range Organics (DRO)	<49.7	994	1170	118	1120	113	70-135	4	35	mg/kg	01.02.19 21:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		104		70-135	%	01.02.19 21:15
o-Terphenyl	114		108		70-135	%	01.02.19 21:15

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 609801

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3074494 Matrix: Solid Date Prep: 12.31.18

MB Sample Id: 7669017-1-BLK LCS Sample Id: 7669017-1-BKS LCSD Sample Id: 7669017-1-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	0.109	109	0.116	116	70-130	6	35	mg/kg	12.31.18 23:46	
Toluene	<0.000456	0.100	0.0925	93	0.0976	98	70-130	5	35	mg/kg	12.31.18 23:46	
Ethylbenzene	<0.000565	0.100	0.0944	94	0.0990	99	70-130	5	35	mg/kg	12.31.18 23:46	
m,p-Xylenes	<0.00101	0.200	0.173	87	0.182	91	70-130	5	35	mg/kg	12.31.18 23:46	
o-Xylene	<0.000344	0.100	0.0851	85	0.0892	89	70-130	5	35	mg/kg	12.31.18 23:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		110		110		70-130	%	12.31.18 23:46
4-Bromofluorobenzene	81		90		91		70-130	%	12.31.18 23:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3074494 Matrix: Soil Date Prep: 12.31.18

Parent Sample Id: 609801-001 MS Sample Id: 609801-001 S MSD Sample Id: 609801-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000386	0.100	0.109	109	0.0999	100	70-130	9	35	mg/kg	01.01.19 00:24	
Toluene	<0.000457	0.100	0.0882	88	0.0800	80	70-130	10	35	mg/kg	01.01.19 00:24	
Ethylbenzene	0.000618	0.100	0.0823	82	0.0686	68	70-130	18	35	mg/kg	01.01.19 00:24	X
m,p-Xylenes	<0.00102	0.200	0.150	75	0.124	62	70-130	19	35	mg/kg	01.01.19 00:24	X
o-Xylene	<0.000345	0.100	0.0731	73	0.0614	61	70-130	17	35	mg/kg	01.01.19 00:24	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		111		70-130	%	01.01.19 00:24
4-Bromofluorobenzene	95		94		70-130	%	01.01.19 00:24

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 1009801

XENCO LABORATORIES

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:	Adrian Baker	Bill to: (if different)	KYLE LITTRELL
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST TRRP Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	012918058	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Garrett Green	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.3 0.7	Thermometer ID:		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS01	S	12/19/2018	0930	0.5'	1	X	X	X
SS02			0940		1	X	X	X
SS03			0950		1	X	X	X
SS04			1005		1	X	X	X
SS05			1030		1	X	X	X
SS06			1040		1	X	X	X
SS07			1100		1	X	X	X
SS08			1110		1	X	X	X
SS09			1125		1	X	X	X
SS10			1140		1	X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1	2 Anna Byers	12/21/18 1408	2 Anna Byers 12		12/21/18 14:30
3	4	12/26/18 15:30	4		
5	6		6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Page 35 of 40
Final 1.000
Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

Work Order No: 1009801

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 2 of 2

Project Manager:	Adrian Baker	Bill to: (if different)	KYLE LITTRELL XTO
Company Name:	LT Environmental, Inc., Permian office	Company Name:	
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432.704.5178	Email:	

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST TRRP Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	012918058	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Garrett Green	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.3 | 0.2	Thermometer ID		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS11	S	12/19/2018	1155	0.5'	1	X	X	X
SS12	S	12/19/2018	1215	0.5'	1	X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1			12/21/18 1400	2		14:30 12/21/18
3		12/27/18 1834	12/26/18 15:30	4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 36 of 40

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Inter-Office Shipment

IOS Number **119839**

Date/Time: 12/27/18 12:59
Lab# From: **Midland**
Lab# To: **Houston**

Created by: Brianna Teel
Delivery Priority:
Air Bill No.: 774072715561

Please send report to: Jessica Kramer
Address: 1211 W. Florida Ave, Midland TX 79701
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
609801-001	S	SS01	12/19/18 09:30	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 09:30	JKR	PHCC10C28 PHCC28C35	
609801-002	S	SS02	12/19/18 09:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 09:40	JKR	PHCC10C28 PHCC28C35	
609801-003	S	SS03	12/19/18 09:50	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 09:50	JKR	PHCC10C28 PHCC28C35	
609801-004	S	SS04	12/19/18 10:05	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 10:05	JKR	PHCC10C28 PHCC28C35	
609801-005	S	SS05	12/19/18 10:30	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 10:30	JKR	PHCC10C28 PHCC28C35	
609801-006	S	SS06	12/19/18 10:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 10:40	JKR	PHCC10C28 PHCC28C35	
609801-007	S	SS07	12/19/18 11:00	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 11:00	JKR	PHCC10C28 PHCC28C35	
609801-008	S	SS08	12/19/18 11:10	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 11:10	JKR	PHCC10C28 PHCC28C35	
609801-009	S	SS09	12/19/18 11:25	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 11:25	JKR	PHCC10C28 PHCC28C35	
609801-010	S	SS10	12/19/18 11:40	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 11:40	JKR	PHCC10C28 PHCC28C35	
609801-011	S	SS11	12/19/18 11:55	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 11:55	JKR	PHCC10C28 PHCC28C35	
609801-012	S	SS12	12/19/18 12:05	SW8015MOD_NM	TPH by SW8015 Mod	01/04/19	01/02/19 12:05	JKR	PHCC10C28 PHCC28C35	

Inter Office Shipment or Sample Comments:

Relinquished By: Brianna Teel
Brianna Teel

Date Relinquished: 12/27/2018

Received By:
Taha Hedib

Date Received: 12/28/2018 09:30

Cooler Temperature: 0.6

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 119839

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : hou-068

Sent By: Brianna Teel **Date Sent:** 12/27/2018 12:59 PM

Received By: Taha Hedib **Date Received:** 12/28/2018 09:30 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: _____ Date: 12/28/2018

Taha Hedib

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/27/2018 11:36:00 AM

Work Order #: 609801

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12/27/2018

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 12/27/2018

Jessica Kramer

Analytical Report 628188

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 001

30-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

30-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628188**
Remuda 001
Project Address: Delaware Basin

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 XENCO Report Number(s) 628188. 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 XENCO Laboratories. 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. 628188 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH08	S	06-17-19 09:40	4 ft	628188-001
PH09	S	06-17-19 11:10	2 ft	628188-002
BH01	S	06-17-19 13:50	1 ft	628188-003
BH01A	S	06-17-19 13:55	1.5 ft	628188-004
BH02	S	06-17-19 14:40	1 ft	628188-005
BH02A	S	06-17-19 14:50	2 ft	628188-006
BH03	S	06-17-19 15:50	1 ft	628188-007
BH03A	S	06-17-19 16:00	2 ft	628188-008

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 001

Project ID:
Work Order Number(s): *628188*

Report Date: *30-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093943 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 628188

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id:
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 30-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628188-001		628188-002		628188-003		628188-004		628188-005		628188-006	
	Field Id:	PH08		PH09		BH01		BH01A		BH02		BH02A	
	Depth:	4- ft		2- ft		1- ft		1.5- ft		1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-17-19 09:40		Jun-17-19 11:10		Jun-17-19 13:50		Jun-17-19 13:55		Jun-17-19 14:40		Jun-17-19 14:50	
BTEX by EPA 8021B	***Extracted:***	Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12		Jun-28-19 17:12	
	Analyzed:	Jun-30-19 02:01		Jun-30-19 01:39		Jun-30-19 01:17		Jun-30-19 12:55		Jun-30-19 12:33		Jun-30-19 12:11	
	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	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:00		Jun-22-19 19:00		Jun-22-19 19:00		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-23-19 04:59		Jun-23-19 05:07		Jun-23-19 05:32		Jun-25-19 14:14		Jun-25-19 14:19		Jun-25-19 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8860	99.8	1800	99.2	18.4	5.05	28.4	5.00	<5.00	5.00	13.7	4.96
TPH by SW8015 Mod	***Extracted:***	Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 12:00		Jun-23-19 10:00		Jun-23-19 10:00	
	Analyzed:	Jun-24-19 08:41		Jun-24-19 09:06		Jun-24-19 09:31		Jun-24-19 09:56		Jun-24-19 04:42		Jun-24-19 05:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total GRO-DRO		<15.0	15.0	41.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 628188

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id:
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 30-JUN-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	628188-007		628188-008					
	Field Id:	BH03		BH03A					
	Depth:	1- ft		2- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Jun-17-19 15:50		Jun-17-19 16:00					
BTEX by EPA 8021B	***Extracted:***	Jun-28-19 17:12		Jun-28-19 17:12					
	Analyzed:	Jun-29-19 11:49		Jun-29-19 11:27					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:00		Jun-25-19 10:40					
	Analyzed:	Jun-23-19 06:13		Jun-25-19 15:31					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		<4.95	4.95	<4.98	4.98				
TPH by SW8015 Mod	***Extracted:***	Jun-23-19 10:00		Jun-23-19 10:00					
	Analyzed:	Jun-24-19 07:08		Jun-24-19 05:22					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0				
Total TPH		<15.0	15.0	<15.0	15.0				
Total GRO-DRO		<15.0	15.0	<15.0	15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-001	Date Collected:	06.17.19 09.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8860**	99.8	mg/kg	06.23.19 04.59		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 08.41	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 08.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.24.19 08.41	
o-Terphenyl	84-15-1	94	%	70-135	06.24.19 08.41	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-001	Date Collected:	06.17.19 09.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.30.19 02.01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 02.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.30.19 02.01	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 02.01	

Certificate of Analytical Results 628188

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-002	Date Collected:	06.17.19 11.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1800**	99.2	mg/kg	06.23.19 05.07		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	**41.6**	15.0	mg/kg	06.24.19 09.06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.06	U	1
Total TPH	PHC635	**41.6**	15.0	mg/kg	06.24.19 09.06		1
Total GRO-DRO	PHC628	**41.6**	15.0	mg/kg	06.24.19 09.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	06.24.19 09.06	
o-Terphenyl	84-15-1	91	%	70-135	06.24.19 09.06	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-002	Date Collected:	06.17.19 11.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.30.19 01.39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.30.19 01.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.30.19 01.39	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 01.39	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-003	Date Collected:	06.17.19 13.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.4**	5.05	mg/kg	06.23.19 05.32		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 09.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 09.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	06.24.19 09.31	
o-Terphenyl	84-15-1	93	%	70-135	06.24.19 09.31	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-003	Date Collected:	06.17.19 13.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.30.19 01.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.30.19 01.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.30.19 01.17	
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.30.19 01.17	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-004	Date Collected:	06.17.19 13.55	Sample Depth:	1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.4**	5.00	mg/kg	06.25.19 14.14		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 12.00	Basis:	Wet Weight
Seq Number:	3093434				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 09.56	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 09.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.24.19 09.56	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 09.56	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-004	Date Collected:	06.17.19 13.55	Sample Depth:	1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.30.19 12.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.30.19 12.55	
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.30.19 12.55	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-005	Date Collected:	06.17.19 14.40	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.25.19 14.19	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 04.42	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 04.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 04.42	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 04.42	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-005	Date Collected:	06.17.19 14.40	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.30.19 12.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.30.19 12.33	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.30.19 12.33	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-006	Date Collected:	06.17.19 14.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.7**	4.96	mg/kg	06.25.19 14.38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 05.02	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 05.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 05.02	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 05.02	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-006	Date Collected:	06.17.19 14.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.30.19 12.11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.30.19 12.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.30.19 12.11	
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.30.19 12.11	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-007	Date Collected:	06.17.19 15.50	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.00	Basis:	Wet Weight
Seq Number:	3093325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	06.23.19 06.13	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 07.08	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 07.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 07.08	
o-Terphenyl	84-15-1	101	%	70-135	06.24.19 07.08	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-007	Date Collected:	06.17.19 15.50	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.29.19 11.49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.29.19 11.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.29.19 11.49	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.29.19 11.49	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-008	Date Collected:	06.17.19 16.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	06.25.19 15.31	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.23.19 10.00	Basis:	Wet Weight
Seq Number:	3093431				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 05.22	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 05.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 05.22	
o-Terphenyl	84-15-1	97	%	70-135	06.24.19 05.22	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628188-008	Date Collected:	06.17.19 16.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	FOV	Date Prep:	06.28.19 17.12	Basis:	Wet Weight
Seq Number:	3093943				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.29.19 11.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.29.19 11.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.29.19 11.27	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.29.19 11.27	

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.

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

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Solid — Date Prep: 06.22.19
MB Sample Id: 7680539-1-BLK — LCS Sample Id: 7680539-1-BKS — LCSD Sample Id: 7680539-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	246	98	90-110	0	20	mg/kg	06.23.19 04:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK — LCS Sample Id: 7680632-1-BKS — LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628029-002 — MS Sample Id: 628029-002 S — MSD Sample Id: 628029-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	246	98	245	98	90-110	0	20	mg/kg	06.23.19 04:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093325 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628188-007 — MS Sample Id: 628188-007 S — MSD Sample Id: 628188-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.81	248	258	102	258	102	90-110	0	20	mg/kg	06.23.19 06:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-001 — MS Sample Id: 628414-001 S — MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

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

Final 1.000

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-002 MS Sample Id: 628414-002 S MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093431 Matrix: Solid Date Prep: 06.23.19
MB Sample Id: 7680669-1-BLK LCS Sample Id: 7680669-1-BKS LCSD Sample Id: 7680669-1-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)	<8.00	1000	1160	116	1150	115	70-135	1	20	mg/kg	06.23.19 21:50	
Diesel Range Organics (DRO)	<8.13	1000	1080	108	1070	107	70-135	1	20	mg/kg	06.23.19 21:50	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		127		127		70-135	%	06.23.19 21:50
o-Terphenyl	126		113		112		70-135	%	06.23.19 21:50

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093434 Matrix: Solid Date Prep: 06.23.19
MB Sample Id: 7680671-1-BLK LCS Sample Id: 7680671-1-BKS LCSD Sample Id: 7680671-1-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)	9.45	1000	906	91	931	93	70-135	3	20	mg/kg	06.24.19 00:12	
Diesel Range Organics (DRO)	8.62	1000	1020	102	1030	103	70-135	1	20	mg/kg	06.24.19 00:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		77		72		70-135	%	06.24.19 00:12
o-Terphenyl	106		90		92		70-135	%	06.24.19 00:12

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093431 Matrix: Soil Date Prep: 06.23.19
Parent Sample Id: 628585-001 MS Sample Id: 628585-001 S MSD Sample Id: 628585-001 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)	<8.00	1000	1080	108	1090	109	70-135	1	20	mg/kg	06.23.19 22:50	
Diesel Range Organics (DRO)	<8.13	1000	1010	101	1020	102	70-135	1	20	mg/kg	06.23.19 22:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		125		70-135	%	06.23.19 22:50
o-Terphenyl	116		115		70-135	%	06.23.19 22:50

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 628188

LT Environmental, Inc.

Remuda 001

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3093434 | Matrix: Soil | Date Prep: 06.23.19
Parent Sample Id: 628550-001 | MS Sample Id: 628550-001 S | MSD Sample Id: 628550-001 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)	10.9	998	966	96	952	94	70-135	1	20	mg/kg	06.24.19 01:24	
Diesel Range Organics (DRO)	9.40	998	996	99	1000	99	70-135	0	20	mg/kg	06.24.19 01:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	77		82		70-135	%	06.24.19 01:24
o-Terphenyl	95		91		70-135	%	06.24.19 01:24

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093943 | Matrix: Solid | Date Prep: 06.28.19
MB Sample Id: 7681018-1-BLK | LCS Sample Id: 7681018-1-BKS | LCSD Sample Id: 7681018-1-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	0.0875	88	0.0847	84	70-130	3	35	mg/kg	06.29.19 08:28	
Toluene	<0.00200	0.100	0.0838	84	0.0820	81	70-130	2	35	mg/kg	06.29.19 08:28	
Ethylbenzene	<0.00200	0.100	0.0899	90	0.0872	86	70-130	3	35	mg/kg	06.29.19 08:28	
m,p-Xylenes	<0.00401	0.200	0.178	89	0.175	87	70-130	2	35	mg/kg	06.29.19 08:28	
o-Xylene	<0.00200	0.100	0.0865	87	0.0840	83	70-130	3	35	mg/kg	06.29.19 08:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		97		70-130	%	06.29.19 08:28
4-Bromofluorobenzene	100		100		107		70-130	%	06.29.19 08:28

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3093943 | Matrix: Soil | Date Prep: 06.28.19
Parent Sample Id: 628189-002 | MS Sample Id: 628189-002 S | MSD Sample Id: 628189-002 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	0.0795	80	0.0781	78	70-130	2	35	mg/kg	06.29.19 09:12	
Toluene	<0.00200	0.100	0.0717	72	0.0698	70	70-130	3	35	mg/kg	06.29.19 09:12	
Ethylbenzene	<0.00200	0.100	0.0697	70	0.0683	68	70-130	2	35	mg/kg	06.29.19 09:12	X
m,p-Xylenes	<0.00401	0.200	0.142	71	0.139	69	70-130	2	35	mg/kg	06.29.19 09:12	X
o-Xylene	<0.00200	0.100	0.0717	72	0.0701	70	70-130	2	35	mg/kg	06.29.19 09:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		97		70-130	%	06.29.19 09:12
4-Bromofluorobenzene	112		111		70-130	%	06.29.19 09:12

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

Page 410 of 1252

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 619178

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, ~~emckissen@ltenv.com~~, ~~asmith@ltenv.com~~

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Ronda 001	Turn Around	
Project Number:		Routine	X
P.O. Number:	2RP 5135	Rush:	
Sampler's Name:	L Laumbach	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5/0.3	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)
PH08	S	06/17/19	9:40	4'	1	X	X	X
PH09	S		11:10	2'	1	X	X	X
BH01	S		13:50	1'	1	X	X	X
BH01A	S		13:55	1.5'	1	X	X	X
BH02	S		14:40	1'	1	X	X	X
BH02A	S		14:50	2'	1	X	X	X
BH03	S		15:50	1'	1	X	X	X
BH03A	S		16:20	2'	1	X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1	Anne Byer	06/18/19 @ 0915	2 Anne Byer		6/18/19 09:40
3	FedEx	6/18/19 14:00	4		
5			6		

Revised Date 051418 Rev 2018.1

Received by QCD: 12/11/2025 7:09:27 AM
Page 27 of 28
Final 1.000
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628188

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 628191

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda 001

12919001

27-JUN-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

27-JUN-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628191**
Remuda 001
Project Address: Delaware Basin

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 XENCO Report Number(s) 628191. 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 XENCO Laboratories. 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. 628191 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	06-13-19 12:15	1 ft	628191-001
PH01A	S	06-13-19 12:30	4 ft	628191-002
PH02	S	06-13-19 13:00	2 ft	628191-003
PH02A	S	06-13-19 13:50	12 ft	628191-004
PH03	S	06-13-19 14:30	1 ft	628191-005
PH03A	S	06-14-19 09:45	18 ft	628191-006
PH04	S	06-14-19 10:15	1 ft	628191-007
PH04A	S	06-14-19 10:30	4 ft	628191-008
PH05	S	06-14-19 11:55	1 ft	628191-009
PH05A	S	06-14-19 12:20	7 ft	628191-010
PH06	S	06-14-19 13:30	1 ft	628191-011
PH06A	S	06-14-19 14:00	4 ft	628191-012
PH07	S	06-14-19 14:20	1 ft	628191-013
PH07A	S	06-14-19 15:45	18 ft	628191-014

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 001

Project ID: *12919001*
Work Order Number(s): *628191*

Report Date: *27-JUN-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093649 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Received by OCD: 12/11/2025 7:09:27 AM

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628191-001		628191-002		628191-003		628191-004		628191-005		628191-006	
	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
	Depth:	1- ft		4- ft		2- ft		12- ft		1- ft		18- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-13-19 12:15		Jun-13-19 12:30		Jun-13-19 13:00		Jun-13-19 13:50		Jun-13-19 14:30		Jun-14-19 09:45	
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00	
	Analyzed:	Jun-26-19 19:13		Jun-26-19 19:35		Jun-26-19 19:57		Jun-26-19 20:19		Jun-26-19 20:41		Jun-26-19 21:03	
	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	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00400	0.00400	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30	
	Analyzed:	Jun-24-19 16:06		Jun-24-19 16:11		Jun-24-19 16:16		Jun-24-19 16:30		Jun-24-19 16:35		Jun-24-19 16:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5720	100	5750	50.0	1840	50.0	4720	100	5420	100	811	50.0
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00	
	Analyzed:	Jun-24-19 22:38		Jun-24-19 23:39		Jun-24-19 23:59		Jun-25-19 00:57		Jun-25-19 01:16		Jun-25-19 01:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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Jessica Kramer
Project Assistant

Released to Imaging: 4/14/2026 8:09:55 AM

Received by OCD: 12/11/2025 7:09:27 AM

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628191-007		628191-008		628191-009		628191-010		628191-011		628191-012	
	Field Id:	PH04		PH04A		PH05		PH05A		PH06		PH06A	
	Depth:	1- ft		4- ft		1- ft		7- ft		1- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-14-19 10:15		Jun-14-19 10:30		Jun-14-19 11:55		Jun-14-19 12:20		Jun-14-19 13:30		Jun-14-19 14:00	
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00		Jun-25-19 17:00	
	Analyzed:	Jun-26-19 21:25		Jun-26-19 21:47		Jun-26-19 22:09		Jun-26-19 22:31		Jun-27-19 00:06		Jun-27-19 00:28	
	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	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30		Jun-22-19 19:30	
	Analyzed:	Jun-24-19 16:45		Jun-24-19 16:54		Jun-24-19 16:50		Jun-24-19 17:09		Jun-24-19 17:14		Jun-25-19 09:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8260	50.0	587	5.00	3380	25.0	903	50.0	904	50.0	<5.00	5.00
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00		Jun-24-19 14:00	
	Analyzed:	Jun-25-19 01:55		Jun-25-19 02:15		Jun-25-19 02:34		Jun-25-19 02:54		Jun-25-19 03:34		Jun-25-19 03:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0	<14.9	14.9	<15.0	15.0

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Jessica Kramer
Project Assistant

Released to Imaging: 4/14/2026 8:09:55 AM

Certificate of Analysis Summary 628191

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 12919001
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 11:40 am
Report Date: 27-JUN-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628191-013		628191-014									
	Field Id:	PH07		PH07A									
	Depth:	1- ft		18- ft									
	Matrix:	SOIL		SOIL									
	Sampled:	Jun-14-19 14:20		Jun-14-19 15:45									
BTEX by EPA 8021B	***Extracted:***	Jun-25-19 17:00		Jun-25-19 17:00									
	Analyzed:	Jun-27-19 00:50		Jun-27-19 01:12									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		<0.00200	0.00200	<0.00201	0.00201								
Toluene		<0.00200	0.00200	<0.00201	0.00201								
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201								
m,p-Xylenes		<0.00400	0.00400	<0.00402	0.00402								
o-Xylene		<0.00200	0.00200	<0.00201	0.00201								
Total Xylenes		<0.00200	0.00200	<0.00201	0.00201								
Total BTEX		<0.00200	0.00200	<0.00201	0.00201								
Chloride by EPA 300	***Extracted:***	Jun-22-19 19:30		Jun-22-19 19:30									
	Analyzed:	Jun-25-19 08:58		Jun-25-19 09:03									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		7680	50.0	857	50.0								
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 14:00		Jun-24-19 14:00									
	Analyzed:	Jun-25-19 04:14		Jun-25-19 04:34									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0								
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0								
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0								
Total TPH		<15.0	15.0	<15.0	15.0								
Total GRO-DRO		<15.0	15.0	<15.0	15.0								

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Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-001	Date Collected:	06.13.19 12.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5720**	100	mg/kg	06.24.19 16.06		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 22.38	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 22.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 22.38	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 22.38	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-001	Date Collected:	06.13.19 12.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.26.19 19.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	06.26.19 19.13	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.26.19 19.13	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-002	Date Collected:	06.13.19 12.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5750**	50.0	mg/kg	06.24.19 16.11		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 23.39	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 23.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 23.39	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 23.39	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-002	Date Collected:	06.13.19 12.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.26.19 19.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 19.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	06.26.19 19.35	
1,4-Difluorobenzene	540-36-3	99	%	70-130	06.26.19 19.35	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-003	Date Collected:	06.13.19 13.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1840**	50.0	mg/kg	06.24.19 16.16		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 23.59	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 23.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.24.19 23.59	
o-Terphenyl	84-15-1	99	%	70-135	06.24.19 23.59	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-003	Date Collected:	06.13.19 13.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 19.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 19.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 19.57	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 19.57	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-004	Date Collected:	06.13.19 13.50	Sample Depth:	12 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4720**	100	mg/kg	06.24.19 16.30		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 00.57	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 00.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 00.57	
o-Terphenyl	84-15-1	101	%	70-135	06.25.19 00.57	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-004	Date Collected:	06.13.19 13.50	Sample Depth:	12 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.26.19 20.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 20.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 20.19	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.26.19 20.19	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-005	Date Collected:	06.13.19 14.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5420**	100	mg/kg	06.24.19 16.35		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.16	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.25.19 01.16	
o-Terphenyl	84-15-1	103	%	70-135	06.25.19 01.16	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-005	Date Collected:	06.13.19 14.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.26.19 20.41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.26.19 20.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	06.26.19 20.41	
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 20.41	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **PH03A** Matrix: Soil Date Received:06.19.19 11.40

Lab Sample Id: 628191-006 Date Collected: 06.14.19 09.45 Sample Depth: 18 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.22.19 19.30 Basis: Wet Weight

Seq Number: 3093372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**811**	50.0	mg/kg	06.24.19 16.40		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 06.24.19 14.00 Basis: Wet Weight

Seq Number: 3093439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.35	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.25.19 01.35	
o-Terphenyl	84-15-1	99	%	70-135	06.25.19 01.35	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-006	Date Collected:	06.14.19 09.45	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.26.19 21.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 21.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.26.19 21.03	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.26.19 21.03	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-007	Date Collected:	06.14.19 10.15	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8260**	50.0	mg/kg	06.24.19 16.45		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 01.55	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 01.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.25.19 01.55	
o-Terphenyl	84-15-1	102	%	70-135	06.25.19 01.55	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-007	Date Collected:	06.14.19 10.15	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.26.19 21.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.26.19 21.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 21.25	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 21.25	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-008	Date Collected:	06.14.19 10.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**587**	5.00	mg/kg	06.24.19 16.54		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 02.15	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 02.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.25.19 02.15	
o-Terphenyl	84-15-1	100	%	70-135	06.25.19 02.15	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH04A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-008	Date Collected:	06.14.19 10.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.26.19 21.47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.26.19 21.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 21.47	
4-Bromofluorobenzene	460-00-4	108	%	70-130	06.26.19 21.47	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **PH05** Matrix: Soil Date Received:06.19.19 11.40

Lab Sample Id: 628191-009 Date Collected: 06.14.19 11.55 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.22.19 19.30 Basis: Wet Weight

Seq Number: 3093372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3380**	25.0	mg/kg	06.24.19 16.50		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 06.24.19 14.00 Basis: Wet Weight

Seq Number: 3093439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 02.34	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 02.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.25.19 02.34	
o-Terphenyl	84-15-1	105	%	70-135	06.25.19 02.34	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-009	Date Collected:	06.14.19 11.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 22.09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 22.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.26.19 22.09	
4-Bromofluorobenzene	460-00-4	107	%	70-130	06.26.19 22.09	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-010	Date Collected:	06.14.19 12.20	Sample Depth:	7 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**903**	50.0	mg/kg	06.24.19 17.09		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 02.54	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 02.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 02.54	
o-Terphenyl	84-15-1	102	%	70-135	06.25.19 02.54	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH05A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-010	Date Collected:	06.14.19 12.20	Sample Depth:	7 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.26.19 22.31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.26.19 22.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	06.26.19 22.31	
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.26.19 22.31	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-011	Date Collected:	06.14.19 13.30	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**904**	50.0	mg/kg	06.24.19 17.14		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 03.34	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 03.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.25.19 03.34	
o-Terphenyl	84-15-1	95	%	70-135	06.25.19 03.34	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-011	Date Collected:	06.14.19 13.30	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.27.19 00.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.27.19 00.06	
4-Bromofluorobenzene	460-00-4	99	%	70-130	06.27.19 00.06	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-012	Date Collected:	06.14.19 14.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.25.19 09.41	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 03.54	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 03.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.25.19 03.54	
o-Terphenyl	84-15-1	91	%	70-135	06.25.19 03.54	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH06A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-012	Date Collected:	06.14.19 14.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.27.19 00.28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.27.19 00.28	
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.27.19 00.28	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-013	Date Collected:	06.14.19 14.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.22.19 19.30	Basis:	Wet Weight
Seq Number:	3093372				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7680**	50.0	mg/kg	06.25.19 08.58		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 14.00	Basis:	Wet Weight
Seq Number:	3093439				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 04.14	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 04.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.25.19 04.14	
o-Terphenyl	84-15-1	103	%	70-135	06.25.19 04.14	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-013	Date Collected:	06.14.19 14.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.27.19 00.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.27.19 00.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	06.27.19 00.50	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.27.19 00.50	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **PH07A** Matrix: Soil Date Received:06.19.19 11.40

Lab Sample Id: 628191-014 Date Collected: 06.14.19 15.45 Sample Depth: 18 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 06.22.19 19.30 Basis: Wet Weight

Seq Number: 3093372

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**857**	50.0	mg/kg	06.25.19 09.03		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 06.24.19 14.00 Basis: Wet Weight

Seq Number: 3093439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 04.34	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 04.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	06.25.19 04.34	
o-Terphenyl	84-15-1	101	%	70-135	06.25.19 04.34	

Certificate of Analytical Results 628191

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH07A**	Matrix:	Soil	Date Received:	06.19.19 11.40
Lab Sample Id:	628191-014	Date Collected:	06.14.19 15.45	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	DVM			% Moisture:	
Analyst:	DVM	Date Prep:	06.25.19 17.00	Basis:	Wet Weight
Seq Number:	3093649				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.27.19 01.12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.27.19 01.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.27.19 01.12	
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.27.19 01.12	

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.

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

QC Summary 628191

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093372 — Matrix: Solid — Date Prep: 06.22.19
MB Sample Id: 7680541-1-BLK — LCS Sample Id: 7680541-1-BKS — LCSD Sample Id: 7680541-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	266	106	90-110	0	20	mg/kg	06.24.19 15:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093372 — Matrix: Soil — Date Prep: 06.22.19
Parent Sample Id: 628190-007 — MS Sample Id: 628190-007 S — MSD Sample Id: 628190-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	886	250	1090	82	1090	82	90-110	0	20	mg/kg	06.24.19 15:52	X

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3093439 — Matrix: Solid — Date Prep: 06.24.19
MB Sample Id: 7680675-1-BLK — LCS Sample Id: 7680675-1-BKS — LCSD Sample Id: 7680675-1-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)	<8.00	1000	1160	116	1150	115	70-135	1	20	mg/kg	06.24.19 21:57	
Diesel Range Organics (DRO)	<8.13	1000	1100	110	1090	109	70-135	1	20	mg/kg	06.24.19 21:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		127		123		70-135	%	06.24.19 21:57
o-Terphenyl	108		112		113		70-135	%	06.24.19 21:57

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3093439 — Matrix: Soil — Date Prep: 06.24.19
Parent Sample Id: 628191-001 — MS Sample Id: 628191-001 S — MSD Sample Id: 628191-001 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)	10.8	999	1090	108	1100	109	70-135	1	20	mg/kg	06.24.19 22:59	
Diesel Range Organics (DRO)	<8.12	999	1020	102	1030	103	70-135	1	20	mg/kg	06.24.19 22:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		127		70-135	%	06.24.19 22:59
o-Terphenyl	124		126		70-135	%	06.24.19 22:59

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628191

LT Environmental, Inc.

Remuda 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3093649 Matrix: Solid Date Prep: 06.25.19

MB Sample Id: 7680760-1-BLK LCS Sample Id: 7680760-1-BKS LCSD Sample Id: 7680760-1-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	0.0927	93	0.0942	95	70-130	2	35	mg/kg	06.26.19 16:56	
Toluene	<0.00200	0.100	0.0942	94	0.0943	95	70-130	0	35	mg/kg	06.26.19 16:56	
Ethylbenzene	<0.00200	0.100	0.0952	95	0.0951	96	70-130	0	35	mg/kg	06.26.19 16:56	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.187	94	70-130	1	35	mg/kg	06.26.19 16:56	
o-Xylene	<0.00200	0.100	0.0909	91	0.0914	92	70-130	1	35	mg/kg	06.26.19 16:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		96		99		70-130	%	06.26.19 16:56
4-Bromofluorobenzene	103		103		111		70-130	%	06.26.19 16:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3093649 Matrix: Soil Date Prep: 06.25.19

Parent Sample Id: 628191-001 MS Sample Id: 628191-001 S MSD Sample Id: 628191-001 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	0.0849	85	0.0910	91	70-130	7	35	mg/kg	06.26.19 17:40	
Toluene	<0.00200	0.0998	0.0820	82	0.0868	87	70-130	6	35	mg/kg	06.26.19 17:40	
Ethylbenzene	<0.00200	0.0998	0.0852	85	0.0907	91	70-130	6	35	mg/kg	06.26.19 17:40	
m,p-Xylenes	<0.00399	0.200	0.169	85	0.180	90	70-130	6	35	mg/kg	06.26.19 17:40	
o-Xylene	<0.00200	0.0998	0.0816	82	0.0867	87	70-130	6	35	mg/kg	06.26.19 17:40	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	06.26.19 17:40
4-Bromofluorobenzene	113		108		70-130	%	06.26.19 17:40

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 628191

XENCO LABORATORIES
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 Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	01291901	Routine	☑
P.O. Number:	2RP 5135	Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5/0.3	Thermometer ID:	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8=8021)	Chloride (EPA 300.0)
PH01	S	06/12/2019	1'	12:15	1	X	X	X
PH01A	S	06/12/2019	4'	12:30	1			
PH02	S		2'	13:00	1			
PH02A	S		12'	13:50	1			
PH03	S		1'	14:20	1			
PH03A	S	06/14/2019	9:45	18'	1			
PH04	S		10:15	1'	1			
PH04A	S		10:30	4'	1			
PH05	S		11:55	1'	1			
PH05A	S		12:20	7'	1			

Suspected

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1	Robert Macias	06/17/19 @ 1630	2		6/17/19 16:40
3	Fed Ex	06/18/19 14:00	4		6/19/19 Rec
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 39 of 41
Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

Work Order No: 629191

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
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Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	01294001	Routine	☒
P.O. Number:	2RP5135	Rush:	
Sampler's Name:	Lynda Laumbach	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5/0.3	Thermometer ID	128	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
PH06	S	06/14/19	13:30	1'	1	X	X	X
PH06A	S		14:00	4'	1	X	X	X
PH07	S		14:20	1'	1	X	X	X
PH07A	S		15:45	18'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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 $76.00 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
1			06/17/19 @ 16:30	2		6/7/19 16:40
3		FedEx	06/18/19 14:00	4		6/18/19 9:55
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 40 of 41

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 11:40:00 AM

Work Order #: 628191

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06/19/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06/19/2019

Jessica Kramer

Analytical Report 628413

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Remuda 001

012919001

03-JUL-19

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03-JUL-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628413**
Remuda 001
Project Address: Delaware Basin

Ashley Ager:

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 XENCO Report Number(s) 628413. 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 XENCO Laboratories. 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. 628413 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH08	S	06-19-19 12:32	2 ft	628413-001
BH08 A	S	06-19-19 12:41	4 ft	628413-002
BH08 B	S	06-19-19 13:35	8 ft	628413-003
BH09	S	06-19-19 12:30	2 ft	628413-004
BH09 A	S	06-19-19 12:40	4 ft	628413-005
BH09 B	S	06-19-19 13:20	6 ft	628413-006

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 001

Project ID: *012919001*
Work Order Number(s): *628413*

Report Date: *03-JUL-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093578 TPH by SW8015 Mod
Lab Sample ID 628413-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Motor Oil Range Hydrocarbons (MRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.
Samples in the analytical batch are: 628413-001, -002, -003, -004, -005, -006

Outlier/s are due to possible matrix interference.

Batch: LBA-3094332 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 628413-001 S,628413-001 SD,628413-002.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 628413-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 628413-001, -002, -003, -004, -005, -006.
The Laboratory Control Sample for Benzene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 628413

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628413-001		628413-002		628413-003		628413-004		628413-005		628413-006	
	Field Id:	BH08		BH08 A		BH08 B		BH09		BH09 A		BH09 B	
	Depth:	2- ft		4- ft		8- ft		2- ft		4- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-19-19 12:32		Jun-19-19 12:41		Jun-19-19 13:35		Jun-19-19 12:30		Jun-19-19 12:40		Jun-19-19 13:20	
BTEX by EPA 8021B SUB: T104704400-18-16	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28	
	Analyzed:	Jul-02-19 08:03		Jul-02-19 08:27		Jul-03-19 05:48		Jul-02-19 09:13		Jul-02-19 09:36		Jul-02-19 14:29	
	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	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00399	0.00399	<0.00402	0.00402	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300 SUB: T104704400-18-16	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-25-19 13:26		Jun-25-19 13:31		Jun-25-19 13:36		Jun-25-19 13:50		Jun-25-19 13:55		Jun-25-19 14:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1280	24.8	1160	5.00	619	50.3	1080	49.8	<4.95	4.95	<25.2	25.2
TPH by SW8015 Mod SUB: T104704400-18-16	***Extracted:***	Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00		Jun-25-19 12:00	
	Analyzed:	Jun-25-19 15:31		Jun-25-19 16:48		Jun-25-19 17:14		Jun-25-19 17:40		Jun-25-19 18:07		Jun-25-19 18:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH08** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628413-001 Date Collected: 06.19.19 12.32 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1280**	24.8	mg/kg	06.25.19 13.26		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.25.19 12.00 Basis: Wet Weight
Seq Number: 3093578 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 15.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 15.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	06.25.19 15.31	
o-Terphenyl	84-15-1	77	%	70-135	06.25.19 15.31	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-001	Date Collected:	06.19.19 12.32	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.02.19 08.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 08.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.02.19 08.03	
4-Bromofluorobenzene	460-00-4	129	%	70-130	07.02.19 08.03	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH08 A** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628413-002 Date Collected: 06.19.19 12.41 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	5.00	mg/kg	06.25.19 13.31		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.25.19 12.00 Basis: Wet Weight
Seq Number: 3093578 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 16.48	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 16.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.25.19 16.48	
o-Terphenyl	84-15-1	87	%	70-135	06.25.19 16.48	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-002	Date Collected:	06.19.19 12.41	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.02.19 08.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 08.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	149	%	70-130	07.02.19 08.27	**
1,4-Difluorobenzene	540-36-3	105	%	70-130	07.02.19 08.27	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-003	Date Collected:	06.19.19 13.35	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**619**	50.3	mg/kg	06.25.19 13.36		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 17.14	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 17.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.25.19 17.14	
o-Terphenyl	84-15-1	90	%	70-135	06.25.19 17.14	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH08 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-003	Date Collected:	06.19.19 13.35	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.03.19 05.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.19 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	07.03.19 05.48	
1,4-Difluorobenzene	540-36-3	87	%	70-130	07.03.19 05.48	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-004	Date Collected:	06.19.19 12.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1080**	49.8	mg/kg	06.25.19 13.50		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.25.19 12.00	Basis:	Wet Weight
Seq Number:	3093578			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 17.40	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 17.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	06.25.19 17.40	
o-Terphenyl	84-15-1	81	%	70-135	06.25.19 17.40	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-004	Date Collected:	06.19.19 12.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.02.19 09.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.02.19 09.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	128	%	70-130	07.02.19 09.13	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 09.13	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH09 A** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628413-005 Date Collected: 06.19.19 12.40 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	06.25.19 13.55	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.25.19 12.00 Basis: Wet Weight
Seq Number: 3093578 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.25.19 18.07	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.25.19 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	06.25.19 18.07	
o-Terphenyl	84-15-1	90	%	70-135	06.25.19 18.07	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-005	Date Collected:	06.19.19 12.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.02.19 09.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 09.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.02.19 09.36	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.02.19 09.36	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH09 B** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628413-006 Date Collected: 06.19.19 13.20 Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.2	25.2	mg/kg	06.25.19 14.00	U	5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.25.19 12.00 Basis: Wet Weight
Seq Number: 3093578 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.25.19 18.33	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.25.19 18.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	06.25.19 18.33	
o-Terphenyl	84-15-1	85	%	70-135	06.25.19 18.33	

Certificate of Analytical Results 628413

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH09 B**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628413-006	Date Collected:	06.19.19 13.20	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.02.19 14.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.02.19 14.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.02.19 14.29	
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.02.19 14.29	

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.

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

QC Summary 628413

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Solid Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK LCS Sample Id: 7680632-1-BKS LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-001 MS Sample Id: 628414-001 S MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093517 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628414-002 MS Sample Id: 628414-002 S MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093578 Matrix: Solid Date Prep: 06.25.19
MB Sample Id: 7680769-1-BLK LCS Sample Id: 7680769-1-BKS LCSD Sample Id: 7680769-1-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)	<8.00	1000	1090	109	1060	106	70-135	3	20	mg/kg	06.25.19 14:40	
Diesel Range Organics (DRO)	<8.13	1000	1110	111	1110	111	70-135	0	20	mg/kg	06.25.19 14:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		93		94		70-135	%	06.25.19 14:40
o-Terphenyl	103		93		100		70-135	%	06.25.19 14:40

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 628413

LT Environmental, Inc.

Remuda 001

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3093578 | Matrix: Soil | Date Prep: 06.25.19
Parent Sample Id: 628413-001 | MS Sample Id: 628413-001 S | MSD Sample Id: 628413-001 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)	<7.99	999	983	98	941	94	70-135	4	20	mg/kg	06.25.19 15:57	
Diesel Range Organics (DRO)	9.05	999	1060	105	1080	108	70-135	2	20	mg/kg	06.25.19 15:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		90		70-135	%	06.25.19 15:57
o-Terphenyl	102		94		70-135	%	06.25.19 15:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Solid | Date Prep: 06.29.19
MB Sample Id: 7681037-1-BLK | LCS Sample Id: 7681037-1-BKS | LCSD Sample Id: 7681037-1-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	0.0998	0.0797	80	0.0870	87	70-130	9	35	mg/kg	07.02.19 05:38	
Toluene	<0.000455	0.0998	0.0937	94	0.101	101	70-130	7	35	mg/kg	07.02.19 05:38	
Ethylbenzene	<0.00200	0.0998	0.105	105	0.114	114	70-130	8	35	mg/kg	07.02.19 05:38	
m,p-Xylenes	<0.00101	0.200	0.209	105	0.225	113	70-130	7	35	mg/kg	07.02.19 05:38	
o-Xylene	<0.000344	0.0998	0.0992	99	0.107	107	70-130	8	35	mg/kg	07.02.19 05:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		90		70-130	%	07.02.19 05:38
4-Bromofluorobenzene	107		107		105		70-130	%	07.02.19 05:38

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Soil | Date Prep: 06.29.19
Parent Sample Id: 628413-001 | MS Sample Id: 628413-001 S | MSD Sample Id: 628413-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0565	57	0.0478	48	70-130	17	35	mg/kg	07.03.19 00:25	X
Toluene	<0.000453	0.0994	0.0850	86	0.0831	83	70-130	2	35	mg/kg	07.03.19 00:25	
Ethylbenzene	<0.00199	0.0994	0.104	105	0.102	102	70-130	2	35	mg/kg	07.03.19 00:25	
m,p-Xylenes	<0.00398	0.199	0.202	102	0.192	96	70-130	5	35	mg/kg	07.03.19 00:25	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0946	95	70-130	3	35	mg/kg	07.03.19 00:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		83		70-130	%	07.03.19 00:25
4-Bromofluorobenzene	141	**	147	**	70-130	%	07.03.19 00:25

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

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Chain of Custody

Work Order No: 628413

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	012919001	Routine	☑
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	L.Laumbach	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C): 8°C	Thermometer ID			
Received Intact:	(Yes) No	+NM007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	6	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
BH08	S	10/17/19	12:32	2'	1	X	X	X
BH08A			12:41	4'	1	X	X	X
BH08B			13:35	8'	1	X	X	X
BH09			12:30	2'	1	X	X	X
BH09A			12:40	4'	1	X	X	X
BH09B			13:20	16'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U

1631 / 245.1 / 7470 / 7471 : Hg

ice: 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
ervice. 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
enco. 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
		10/19/2019 15:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 21 of 24

Inter-Office Shipment

IOS Number **41863**

Date/Time: 06/20/19 10:34
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628413-001	S	BH08	06/19/19 12:32	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-001	S	BH08	06/19/19 12:32	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-001	S	BH08	06/19/19 12:32	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-002	S	BH08 A	06/19/19 12:41	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-002	S	BH08 A	06/19/19 12:41	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-002	S	BH08 A	06/19/19 12:41	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-003	S	BH08 B	06/19/19 13:35	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-003	S	BH08 B	06/19/19 13:35	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-003	S	BH08 B	06/19/19 13:35	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-004	S	BH09	06/19/19 12:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-004	S	BH09	06/19/19 12:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-004	S	BH09	06/19/19 12:30	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-005	S	BH09 A	06/19/19 12:40	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-005	S	BH09 A	06/19/19 12:40	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-005	S	BH09 A	06/19/19 12:40	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	
628413-006	S	BH09 B	06/19/19 13:20	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/03/19	JKR	GRO-DRO PHCC10C28 PI	
628413-006	S	BH09 B	06/19/19 13:20	E300_CL	Chloride by EPA 300	06/25/19	12/16/19	JKR	CL	
628413-006	S	BH09 B	06/19/19 13:20	SW8021B	BTEX by EPA 8021B	06/25/19	07/03/19	JKR	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 06/20/2019

Received By: Brianna Teel

Date Received: 06/21/2019 07:33

Cooler Temperature: 0.4

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 41863

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 06/20/2019 10:34 AM

Received By: Brianna Teel **Date Received:** 06/21/2019 07:33 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 06/21/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 03:35:00 PM

Work Order #: 628413

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**	chilling in progress
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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)?	**N/A**	Subbed to XENCO Midland
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Martha Castro Date: 06/19/2019

Checklist reviewed by: Jessica Kramer Date: 06/20/2019

Jessica Kramer

Analytical Report 628414

for

LT Environmental, Inc.

Project Manager: Ashley Ager

Remuda 001

012919001

03-JUL-19

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03-JUL-19

Project Manager: **Ashley Ager**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **628414**
Remuda 001
Project Address: Delaware Basin

Ashley Ager:

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 XENCO Report Number(s) 628414. 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 XENCO Laboratories. 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. 628414 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH04	S	06-18-19 13:30	2 ft	628414-001
BH04A	S	06-18-19 13:45	4 ft	628414-002
BH05	S	06-18-19 14:10	2 ft	628414-003
BH05A	S	06-18-19 14:20	4 ft	628414-004
BH06	S	06-18-19 15:00	2 ft	628414-005
BH06A	S	06-18-19 15:15	4 ft	628414-006
BH07	S	06-18-19 16:30	2 ft	628414-007
BH07A	S	06-18-19 16:45	4 ft	628414-008
PH08A	S	06-18-19 14:40	18 ft	628414-009
PH09A	S	06-18-19 15:55	17 ft	628414-010

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda 001

Project ID: *012919001*
Work Order Number(s): *628414*

Report Date: *03-JUL-19*
Date Received: *06/19/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3093517 Chloride by EPA 300
Lab Sample ID 628414-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 628414-001, -002, -003, -004, -005, -006, -007, -008, -009.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3094305 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3094332 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 628413-001 S,628413-001 SD.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 628414

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628414-001		628414-002		628414-003		628414-004		628414-005		628414-006	
	Field Id:	BH04		BH04A		BH05		BH05A		BH06		BH06A	
	Depth:	2- ft		4- ft		2- ft		4- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-18-19 13:30		Jun-18-19 13:45		Jun-18-19 14:10		Jun-18-19 14:20		Jun-18-19 15:00		Jun-18-19 15:15	
BTEX by EPA 8021B SUB: T104704400-18-16	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jul-02-19 18:00	
	Analyzed:	Jul-02-19 14:52		Jul-02-19 15:15		Jul-02-19 15:38		Jul-02-19 16:55		Jul-01-19 03:04		** ** ** **	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00400	0.00400	<0.00399	0.00399	<0.00401	0.00401	<0.00396	0.00396
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198
Chloride by EPA 300 SUB: T104704400-18-16	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40	
	Analyzed:	Jun-25-19 13:11		Jun-25-19 14:24		Jun-25-19 14:57		Jun-25-19 15:02		Jun-25-19 15:07		Jun-25-19 15:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.02	5.02	16.9	5.00	<5.02	5.02	233	5.05	7.00	4.98	5.14	4.99
TPH by SW8015 Mod SUB: T104704400-18-16	***Extracted:***	Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00	
	Analyzed:	Jun-24-19 17:47		Jun-24-19 18:08		Jun-24-19 18:29		Jun-24-19 18:49		Jun-24-19 19:10		Jun-24-19 19:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0
Total GRO-DRO		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 628414

LT Environmental, Inc., Arvada, CO

Project Name: Remuda 001

Project Id: 012919001
Contact: Ashley Ager
Project Location: Delaware Basin

Date Received in Lab: Wed Jun-19-19 03:35 pm
Report Date: 03-JUL-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	628414-007		628414-008		628414-009		628414-010					
	Field Id:	BH07		BH07A		PH08A		PH09A					
	Depth:	2- ft		4- ft		18- ft		17- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jun-18-19 16:30		Jun-18-19 16:45		Jun-18-19 14:40		Jun-18-19 15:55					
BTEX by EPA 8021B	***Extracted:***	Jun-29-19 16:28		Jun-29-19 16:28		Jun-29-19 16:28		Jul-02-19 18:00					
SUB: T104704400-18-16	***Analyzed:***	Jul-01-19 03:46		Jul-01-19 04:08		Jul-01-19 04:30		** ** ** **					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399				
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 10:40		Jun-25-19 13:30					
SUB: T104704400-18-16	***Analyzed:***	Jun-25-19 15:17		Jun-25-19 15:22		Jun-25-19 15:27		Jun-25-19 19:17					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		54.7	4.97	144	5.05	4410	100	1210	50.0				
TPH by SW8015 Mod	***Extracted:***	Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00		Jun-24-19 10:00					
SUB: T104704400-18-16	***Analyzed:***	Jun-24-19 19:51		Jun-24-19 20:13		Jun-24-19 20:33		Jun-24-19 20:54					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	20.0	15.0	44.9	15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	20.5	15.0				
Total TPH		<15.0	15.0	<15.0	15.0	20.0	15.0	65.4	15.0				
Total GRO-DRO		<15.0	15.0	<15.0	15.0	20.0	15.0	44.9	15.0				

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-001	Date Collected:	06.18.19 13.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.25.19 13.11	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 17.47	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 17.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 17.47	
o-Terphenyl	84-15-1	103	%	70-135	06.24.19 17.47	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-001	Date Collected:	06.18.19 13.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.02.19 14.52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.02.19 14.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	07.02.19 14.52	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 14.52	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-002	Date Collected:	06.18.19 13.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.9**	5.00	mg/kg	06.25.19 14.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.08	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.24.19 18.08	
o-Terphenyl	84-15-1	100	%	70-135	06.24.19 18.08	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH04A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-002	Date Collected:	06.18.19 13.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.02.19 15.15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 15.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	07.02.19 15.15	
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 15.15	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH05** Matrix: Soil Date Received: 06.19.19 15.35
Lab Sample Id: 628414-003 Date Collected: 06.18.19 14.10 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.25.19 14.57	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.24.19 10.00 Basis: Wet Weight
Seq Number: 3093438 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.29	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.24.19 18.29	
o-Terphenyl	84-15-1	104	%	70-135	06.24.19 18.29	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-003	Date Collected:	06.18.19 14.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.02.19 15.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.02.19 15.38	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.02.19 15.38	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-004	Date Collected:	06.18.19 14.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**233**	5.05	mg/kg	06.25.19 15.02		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 18.49	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 18.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 18.49	
o-Terphenyl	84-15-1	102	%	70-135	06.24.19 18.49	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH05A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-004	Date Collected:	06.18.19 14.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.02.19 16.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.02.19 16.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.02.19 16.55	
4-Bromofluorobenzene	460-00-4	110	%	70-130	07.02.19 16.55	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-005	Date Collected:	06.18.19 15.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7.00**	4.98	mg/kg	06.25.19 15.07		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	06.24.19 19.10	U	1
Total GRO-DRO	PHC628	<14.9	14.9	mg/kg	06.24.19 19.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.24.19 19.10	
o-Terphenyl	84-15-1	102	%	70-135	06.24.19 19.10	

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Remuda 001

Sample Id:	**BH06**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-005	Date Collected:	06.18.19 15.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.01.19 03.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 03.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	72	%	70-130	07.01.19 03.04	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.01.19 03.04	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-006	Date Collected:	06.18.19 15.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.14**	4.99	mg/kg	06.25.19 15.12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 19.31	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 19.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 19.31	
o-Terphenyl	84-15-1	96	%	70-135	06.24.19 19.31	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH06A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-006	Date Collected:	06.18.19 15.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	FOV			% Moisture:	
Analyst:	FOV	Date Prep:	07.02.19 18.00	Basis:	Wet Weight
Seq Number:	3094305			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.01.19 03.24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.01.19 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	70-130	07.01.19 03.24	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.01.19 03.24	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **BH07** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628414-007 Date Collected: 06.18.19 16.30 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 10.40 Basis: Wet Weight
Seq Number: 3093517 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54.7**	4.97	mg/kg	06.25.19 15.17		1

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.24.19 10.00 Basis: Wet Weight
Seq Number: 3093438 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 19.51	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 19.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 19.51	
o-Terphenyl	84-15-1	100	%	70-135	06.24.19 19.51	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-007	Date Collected:	06.18.19 16.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.01.19 03.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.01.19 03.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	07.01.19 03.46	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.01.19 03.46	

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Remuda 001

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-008	Date Collected:	06.18.19 16.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	5.05	mg/kg	06.25.19 15.22		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.24.19 20.13	U	1
Total GRO-DRO	PHC628	<15.0	15.0	mg/kg	06.24.19 20.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 20.13	
o-Terphenyl	84-15-1	97	%	70-135	06.24.19 20.13	

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LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**BH07A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-008	Date Collected:	06.18.19 16.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.01.19 04.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 04.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.01.19 04.08	
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.01.19 04.08	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-009	Date Collected:	06.18.19 14.40	Sample Depth:	18 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	06.25.19 10.40	Basis:	Wet Weight
Seq Number:	3093517			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4410**	100	mg/kg	06.25.19 15.27		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	06.24.19 10.00	Basis:	Wet Weight
Seq Number:	3093438			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**20.0**	15.0	mg/kg	06.24.19 20.33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.24.19 20.33	U	1
Total TPH	PHC635	**20.0**	15.0	mg/kg	06.24.19 20.33		1
Total GRO-DRO	PHC628	**20.0**	15.0	mg/kg	06.24.19 20.33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.24.19 20.33	
o-Terphenyl	84-15-1	98	%	70-135	06.24.19 20.33	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH08A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-009	Date Collected:	06.18.19 14.40	Sample Depth:	18 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	JHB			% Moisture:	
Analyst:	JHB	Date Prep:	06.29.19 16.28	Basis:	Wet Weight
Seq Number:	3094332			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.01.19 04.30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.01.19 04.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.01.19 04.30	
1,4-Difluorobenzene	540-36-3	95	%	70-130	07.01.19 04.30	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id: **PH09A** Matrix: Soil Date Received:06.19.19 15.35
Lab Sample Id: 628414-010 Date Collected: 06.18.19 15.55 Sample Depth: 17 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 06.25.19 13.30 Basis: Wet Weight
Seq Number: 3093520 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1210**	50.0	mg/kg	06.25.19 19.17		10

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 06.24.19 10.00 Basis: Wet Weight
Seq Number: 3093438 SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.24.19 20.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**44.9**	15.0	mg/kg	06.24.19 20.54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**20.5**	15.0	mg/kg	06.24.19 20.54		1
Total TPH	PHC635	**65.4**	15.0	mg/kg	06.24.19 20.54		1
Total GRO-DRO	PHC628	**44.9**	15.0	mg/kg	06.24.19 20.54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.24.19 20.54	
o-Terphenyl	84-15-1	95	%	70-135	06.24.19 20.54	

Certificate of Analytical Results 628414

LT Environmental, Inc., Arvada, CO

Remuda 001

Sample Id:	**PH09A**	Matrix:	Soil	Date Received:	06.19.19 15.35
Lab Sample Id:	628414-010	Date Collected:	06.18.19 15.55	Sample Depth:	17 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	FOV			% Moisture:	
Analyst:	FOV	Date Prep:	07.02.19 18.00	Basis:	Wet Weight
Seq Number:	3094305			SUB:	T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.01.19 04.52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.01.19 04.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.01.19 04.52	
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.01.19 04.52	

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.

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

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680632-1-BLK — LCS Sample Id: 7680632-1-BKS — LCSD Sample Id: 7680632-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	06.25.19 13:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093520 — Matrix: Solid — Date Prep: 06.25.19
MB Sample Id: 7680688-1-BLK — LCS Sample Id: 7680688-1-BKS — LCSD Sample Id: 7680688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	268	107	269	108	90-110	0	20	mg/kg	06.25.19 18:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-001 — MS Sample Id: 628414-001 S — MSD Sample Id: 628414-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	279	111	280	112	90-110	0	20	mg/kg	06.25.19 13:16	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093517 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628414-002 — MS Sample Id: 628414-002 S — MSD Sample Id: 628414-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.9	250	304	115	304	115	90-110	0	20	mg/kg	06.25.19 14:28	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3093520 — Matrix: Soil — Date Prep: 06.25.19
Parent Sample Id: 628481-001 — MS Sample Id: 628481-001 S — MSD Sample Id: 628481-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	32.5	250	328	118	324	117	90-110	1	20	mg/kg	06.25.19 19:02	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3093520 Matrix: Soil Date Prep: 06.25.19
Parent Sample Id: 628483-001 MS Sample Id: 628483-001 S MSD Sample Id: 628483-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	278	111	274	110	90-110	1	20	mg/kg	06.25.19 20:25	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093438 Matrix: Solid Date Prep: 06.24.19
MB Sample Id: 7680674-1-BLK LCS Sample Id: 7680674-1-BKS LCSD Sample Id: 7680674-1-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)	<8.00	1000	1130	113	1140	114	70-135	1	20	mg/kg	06.24.19 12:42	
Diesel Range Organics (DRO)	9.14	1000	1070	107	1070	107	70-135	0	20	mg/kg	06.24.19 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		123		127		70-135	%	06.24.19 12:42
o-Terphenyl	107		112		113		70-135	%	06.24.19 12:42

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3093438 Matrix: Soil Date Prep: 06.24.19
Parent Sample Id: 628586-001 MS Sample Id: 628586-001 S MSD Sample Id: 628586-001 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)	46.1	999	1100	105	1080	104	70-135	2	20	mg/kg	06.24.19 13:42	
Diesel Range Organics (DRO)	483	999	1480	100	1480	100	70-135	0	20	mg/kg	06.24.19 13:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		127		70-135	%	06.24.19 13:42
o-Terphenyl	123		128		70-135	%	06.24.19 13:42

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Solid | Date Prep: 06.29.19
MB Sample Id: 7681037-1-BLK | LCS Sample Id: 7681037-1-BKS | LCSD Sample Id: 7681037-1-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	0.0998	0.0797	80	0.0870	87	70-130	9	35	mg/kg	07.02.19 05:38	
Toluene	<0.000455	0.0998	0.0937	94	0.101	101	70-130	7	35	mg/kg	07.02.19 05:38	
Ethylbenzene	<0.00200	0.0998	0.105	105	0.114	114	70-130	8	35	mg/kg	07.02.19 05:38	
m,p-Xylenes	<0.00101	0.200	0.209	105	0.225	113	70-130	7	35	mg/kg	07.02.19 05:38	
o-Xylene	<0.000344	0.0998	0.0992	99	0.107	107	70-130	8	35	mg/kg	07.02.19 05:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		89		90		70-130	%	07.02.19 05:38
4-Bromofluorobenzene	107		107		105		70-130	%	07.02.19 05:38

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094305 | Matrix: Solid | Date Prep: 07.02.19
MB Sample Id: 7681305-1-BLK | LCS Sample Id: 7681305-1-BKS | LCSD Sample Id: 7681305-1-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	0.0998	0.0909	91	0.0923	93	70-130	2	35	mg/kg	07.03.19 00:57	
Toluene	<0.00200	0.0998	0.0896	90	0.0892	90	70-130	0	35	mg/kg	07.03.19 00:57	
Ethylbenzene	<0.00200	0.0998	0.100	100	0.102	103	70-130	2	35	mg/kg	07.03.19 00:57	
m,p-Xylenes	<0.00399	0.200	0.203	102	0.203	103	70-130	0	35	mg/kg	07.03.19 00:57	
o-Xylene	<0.00200	0.0998	0.0953	95	0.0963	97	70-130	1	35	mg/kg	07.03.19 00:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		97		95		70-130	%	07.03.19 00:57
4-Bromofluorobenzene	97		111		107		70-130	%	07.03.19 00:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3094332 | Matrix: Soil | Date Prep: 06.29.19
Parent Sample Id: 628413-001 | MS Sample Id: 628413-001 S | MSD Sample Id: 628413-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0565	57	0.0478	48	70-130	17	35	mg/kg	07.03.19 00:25	X
Toluene	<0.000453	0.0994	0.0850	86	0.0831	83	70-130	2	35	mg/kg	07.03.19 00:25	
Ethylbenzene	<0.00199	0.0994	0.104	105	0.102	102	70-130	2	35	mg/kg	07.03.19 00:25	
m,p-Xylenes	<0.00398	0.199	0.202	102	0.192	96	70-130	5	35	mg/kg	07.03.19 00:25	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0946	95	70-130	3	35	mg/kg	07.03.19 00:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		83		70-130	%	07.03.19 00:25
4-Bromofluorobenzene	141	**	147	**	70-130	%	07.03.19 00:25

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

QC Summary 628414

LT Environmental, Inc.

Remuda 001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3094305 Matrix: Soil Date Prep: 07.02.19

Parent Sample Id: 629696-001 MS Sample Id: 629696-001 S MSD Sample Id: 629696-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00197	0.0986	0.0789	80	0.0875	89	70-130	10	35	mg/kg	07.03.19 01:41	
Toluene	<0.00197	0.0986	0.0758	77	0.0868	88	70-130	14	35	mg/kg	07.03.19 01:41	
Ethylbenzene	<0.00197	0.0986	0.0861	87	0.0988	100	70-130	14	35	mg/kg	07.03.19 01:41	
m,p-Xylenes	<0.00394	0.197	0.172	87	0.201	102	70-130	16	35	mg/kg	07.03.19 01:41	
o-Xylene	<0.00197	0.0986	0.0841	85	0.0933	94	70-130	10	35	mg/kg	07.03.19 01:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		96		70-130	%	07.03.19 01:41
4-Bromofluorobenzene	117		118		70-130	%	07.03.19 01:41

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

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Chain of Custody

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

Work Order No: 628414

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
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:	llaumbach@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda 001	Turn Around	
Project Number:	012919001	Routine	☑
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	L.Laumbach	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):	8°C	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	10	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8=8021)	Chloride (EPA 300.0)
BH04	S	6/18/19	13:30	2'	1	X	X	X
BH04A	S		13:45	4'		X	X	X
BH05	S		14:10	2'		X	X	X
BH05A	S		14:20	4'		X	X	X
BH06	S		15:00	2'		X	X	X
BH06A	S		15:15	4'		X	X	X
BH07	S		16:30	2'		X	X	X
BH07A	S		16:45	4'		X	X	X
PH08A	S		14:40	18'		X	X	X
PH09A	S		15:55	17'		X	X	X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

ice: 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
ervice. 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
enco. 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
		6/18/19 - 15:35	2		
			4		
			6		

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 32 of 36

Inter-Office Shipment

IOS Number **41862**

Date/Time: 06/20/19 10:33
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628414-001	S	BH04	06/18/19 13:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-001	S	BH04	06/18/19 13:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-001	S	BH04	06/18/19 13:30	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-002	S	BH04A	06/18/19 13:45	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-002	S	BH04A	06/18/19 13:45	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-002	S	BH04A	06/18/19 13:45	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-003	S	BH05	06/18/19 14:10	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-003	S	BH05	06/18/19 14:10	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-003	S	BH05	06/18/19 14:10	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-004	S	BH05A	06/18/19 14:20	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-004	S	BH05A	06/18/19 14:20	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-004	S	BH05A	06/18/19 14:20	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-005	S	BH06	06/18/19 15:00	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-005	S	BH06	06/18/19 15:00	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-005	S	BH06	06/18/19 15:00	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-006	S	BH06A	06/18/19 15:15	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-006	S	BH06A	06/18/19 15:15	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-006	S	BH06A	06/18/19 15:15	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-007	S	BH07	06/18/19 16:30	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-007	S	BH07	06/18/19 16:30	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-007	S	BH07	06/18/19 16:30	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-008	S	BH07A	06/18/19 16:45	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-008	S	BH07A	06/18/19 16:45	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-008	S	BH07A	06/18/19 16:45	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	
628414-009	S	PH08A	06/18/19 14:40	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	

Inter-Office Shipment

IOS Number **41862**

Date/Time: 06/20/19 10:33
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
628414-009	S	PH08A	06/18/19 14:40	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-009	S	PH08A	06/18/19 14:40	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-010	S	PH09A	06/18/19 15:55	SW8021B	BTEX by EPA 8021B	06/25/19	07/02/19	JKR	BR4FBZ BZ BZME EBZ X	
628414-010	S	PH09A	06/18/19 15:55	E300_CL	Chloride by EPA 300	06/25/19	12/15/19	JKR	CL	
628414-010	S	PH09A	06/18/19 15:55	SW8015MOD_NM	TPH by SW8015 Mod	06/25/19	07/02/19	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan
Date Relinquished: 06/20/2019

Received By: Brianna Teel
Date Received: 06/21/2019 07:33
Cooler Temperature: 0.4

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 41862

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 06/20/2019 10:33 AM

Received By: Brianna Teel **Date Received:** 06/21/2019 07:33 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 *Custody Seals Signed and dated for Containers/coolers	**N/A**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 06/21/2019

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06/19/2019 03:35:00 PM

Work Order #: 628414

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : TNM007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	chilling in progress
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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)?	**Yes**	Subbed to XENCO Midland
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Martha Castro Date: 06/19/2019

Checklist reviewed by: Jessica Kramer Date: 06/20/2019

Jessica Kramer

Analytical Report 649280

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin Unit 1

012918058

17-JAN-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

17-JAN-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **649280**
Remuda Basin Unit 1
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 XENCO Report Number(s) 649280. 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 XENCO Laboratories. 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. 649280 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	01-13-20 12:20	0 - 4 ft	649280-001
SW02	S	01-13-20 12:30	0 - 4 ft	649280-002
FS01	S	01-13-20 12:36	4.54 ft	649280-003
FS02	S	01-13-20 12:45	.5 ft	649280-004
FS03	S	01-14-20 12:07	6.5 ft	649280-005
FS04	S	01-14-20 12:20	6 ft	649280-006
FS05	S	01-14-20 12:31	8 ft	649280-007
FS06	S	01-14-20 12:41	8 ft	649280-008
FS07	S	01-14-20 12:50	8 ft	649280-009
FS08	S	01-14-20 13:08	6.5 ft	649280-010
FS09	S	01-14-20 13:20	6 ft	649280-011
SW03	S	01-14-20 13:35	0 - 4 ft	649280-012
SW04	S	01-14-20 13:50	0 - 5 ft	649280-013

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin Unit 1

Project ID: *012918058*
Work Order Number(s): *649280*

Report Date: *17-JAN-20*
Date Received: *01/16/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3113577 Chloride by EPA 300
Lab Sample ID 649361-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 649280-009, -010, -011, -012, -013.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3113592 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3113594 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 649280

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin Unit 1

Project Id: 012918058
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu Jan-16-20 10:20 am
Report Date: 17-JAN-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	649280-001		649280-002		649280-003		649280-004		649280-005		649280-006	
	Field Id:	SW01		SW02		FS01		FS02		FS03		FS04	
	Depth:	0-4 ft		0-4 ft		4.54- ft		.5- ft		6.5- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-13-20 12:20		Jan-13-20 12:30		Jan-13-20 12:36		Jan-13-20 12:45		Jan-14-20 12:07		Jan-14-20 12:20	
BTEX by EPA 8021B	*Extracted:*	Jan-16-20 11:04		Jan-16-20 11:04		Jan-16-20 11:04		Jan-16-20 11:04		Jan-16-20 11:04		Jan-16-20 11:04	
	Analyzed:	Jan-16-20 19:39		Jan-16-20 19:58		Jan-16-20 20:17		Jan-16-20 20:36		Jan-16-20 20:55		Jan-16-20 21:14	
	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	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398	<0.00403	0.00403	<0.00400	0.00400	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Chloride by EPA 300	*Extracted:*	Jan-16-20 11:50		Jan-16-20 11:50		Jan-16-20 11:50		Jan-16-20 11:50		Jan-16-20 11:50		Jan-16-20 11:50	
	Analyzed:	Jan-16-20 19:04		Jan-16-20 19:20		Jan-16-20 19:26		Jan-16-20 19:31		Jan-16-20 19:37		Jan-16-20 19:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1520	202	717	49.9	876	49.8	528	49.9	635	49.8	450	49.6
TPH by SW8015 Mod	*Extracted:*	Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00	
	Analyzed:	Jan-17-20 00:12		Jan-17-20 00:12		Jan-17-20 00:31		Jan-17-20 00:51		Jan-17-20 00:51		Jan-17-20 01:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.2	50.2	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.2	50.2
Diesel Range Organics (DRO)		<49.8	49.8	<50.2	50.2	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.2	50.2	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.2	50.2
Total GRO-DRO		<49.8	49.8	<50.2	50.2	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.2	50.2
Total TPH		<49.8	49.8	<50.2	50.2	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.2	50.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 649280

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin Unit 1

Project Id: 012918058
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu Jan-16-20 10:20 am
Report Date: 17-JAN-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	649280-007		649280-008		649280-009		649280-010		649280-011		649280-012	
	Field Id:	FS05		FS06		FS07		FS08		FS09		SW03	
	Depth:	8- ft		8- ft		8- ft		6.5- ft		6- ft		0-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-14-20 12:31		Jan-14-20 12:41		Jan-14-20 12:50		Jan-14-20 13:08		Jan-14-20 13:20		Jan-14-20 13:35	
BTEX by EPA 8021B	*Extracted:*	Jan-16-20 11:04		Jan-16-20 11:04		Jan-16-20 16:07		Jan-16-20 16:07		Jan-16-20 16:07		Jan-16-20 16:07	
	Analyzed:	Jan-16-20 21:33		Jan-16-20 21:52		Jan-17-20 00:51		Jan-17-20 01:10		Jan-17-20 08:44		Jan-17-20 09:03	
	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	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00403	0.00403	<0.00398	0.00398	<0.00404	0.00404	<0.00403	0.00403
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00202	0.00202	<0.00202	0.00202
Chloride by EPA 300	*Extracted:*	Jan-16-20 11:50		Jan-16-20 11:50		Jan-16-20 14:55		Jan-16-20 14:55		Jan-16-20 14:55		Jan-16-20 14:55	
	Analyzed:	Jan-16-20 19:47		Jan-16-20 19:53		Jan-16-20 20:36		Jan-16-20 20:41		Jan-16-20 20:57		Jan-16-20 21:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		713	49.6	2630	49.9	2210	49.9	638	49.9	1710	50.0	273	49.9
TPH by SW8015 Mod	*Extracted:*	Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00		Jan-16-20 15:00	
	Analyzed:	Jan-17-20 01:10		Jan-17-20 01:30		Jan-17-20 01:30		Jan-17-20 01:49		Jan-17-20 01:49		Jan-17-20 02:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.0	50.0
Diesel Range Organics (DRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.0	50.0
Total GRO-DRO		<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.0	50.0
Total TPH		<50.3	50.3	<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.2	50.2	<50.0	50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 649280

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin Unit 1

Project Id: 012918058
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu Jan-16-20 10:20 am
Report Date: 17-JAN-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	649280-013					
	Field Id:	SW04					
	Depth:	0-5 ft					
	Matrix:	SOIL					
	Sampled:	Jan-14-20 13:50					
BTEX by EPA 8021B	***Extracted:***	Jan-16-20 16:07					
	Analyzed:	Jan-17-20 00:32					
	Units/RL:	mg/kg	RL				
Benzene		<0.00201	0.00201				
Toluene		<0.00201	0.00201				
Ethylbenzene		<0.00201	0.00201				
m,p-Xylenes		<0.00402	0.00402				
o-Xylene		<0.00201	0.00201				
Total Xylenes		<0.00201	0.00201				
Total BTEX		<0.00201	0.00201				
Chloride by EPA 300	***Extracted:***	Jan-16-20 14:55					
	Analyzed:	Jan-16-20 21:08					
	Units/RL:	mg/kg	RL				
Chloride		744	49.9				
TPH by SW8015 Mod	***Extracted:***	Jan-16-20 15:00					
	Analyzed:	Jan-17-20 02:09					
	Units/RL:	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		<50.2	50.2				
Total TPH		<50.2	50.2				

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-001	Date Collected:	01.13.20 12.20	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1520**	202	mg/kg	01.16.20 19.04		20

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.17.20 00.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.17.20 00.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.17.20 00.12	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	01.17.20 00.12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.17.20 00.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	01.17.20 00.12	
o-Terphenyl	84-15-1	108	%	70-135	01.17.20 00.12	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-001	Date Collected:	01.13.20 12.20	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.16.20 19.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.20 19.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.16.20 19.39	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.16.20 19.39	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-002	Date Collected:	01.13.20 12.30	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**717**	49.9	mg/kg	01.16.20 19.20		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 00.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 00.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 00.12	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 00.12	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 00.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	01.17.20 00.12	
o-Terphenyl	84-15-1	99	%	70-135	01.17.20 00.12	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-002	Date Collected:	01.13.20 12.30	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.16.20 19.58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.16.20 19.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.16.20 19.58	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.16.20 19.58	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-003	Date Collected:	01.13.20 12.36	Sample Depth:	4.54 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**876**	49.8	mg/kg	01.16.20 19.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 00.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 00.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 00.31	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 00.31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 00.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	01.17.20 00.31	
o-Terphenyl	84-15-1	104	%	70-135	01.17.20 00.31	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-003	Date Collected:	01.13.20 12.36	Sample Depth:	4.54 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.16.20 20.17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.16.20 20.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.16.20 20.17	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.16.20 20.17	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-004	Date Collected:	01.13.20 12.45	Sample Depth:	.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**528**	49.9	mg/kg	01.16.20 19.31		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.17.20 00.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.17.20 00.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.17.20 00.51	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.17.20 00.51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.17.20 00.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	01.17.20 00.51	
o-Terphenyl	84-15-1	103	%	70-135	01.17.20 00.51	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-004	Date Collected:	01.13.20 12.45	Sample Depth:	.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.16.20 20.36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.16.20 20.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.16.20 20.36	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.16.20 20.36	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-005	Date Collected:	01.14.20 12.07	Sample Depth:	6.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**635**	49.8	mg/kg	01.16.20 19.37		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.17.20 00.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.17.20 00.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.17.20 00.51	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.17.20 00.51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.17.20 00.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.17.20 00.51	
o-Terphenyl	84-15-1	99	%	70-135	01.17.20 00.51	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-005	Date Collected:	01.14.20 12.07	Sample Depth:	6.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.16.20 20.55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.20 20.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.16.20 20.55	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.16.20 20.55	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-006	Date Collected:	01.14.20 12.20	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**450**	49.6	mg/kg	01.16.20 19.42		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 01.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 01.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 01.10	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 01.10	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 01.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	01.17.20 01.10	
o-Terphenyl	84-15-1	103	%	70-135	01.17.20 01.10	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-006	Date Collected:	01.14.20 12.20	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.16.20 21.14	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.16.20 21.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.16.20 21.14	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.16.20 21.14	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-007	Date Collected:	01.14.20 12.31	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**713**	49.6	mg/kg	01.16.20 19.47		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.17.20 01.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.17.20 01.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.17.20 01.10	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	01.17.20 01.10	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.17.20 01.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	01.17.20 01.10	
o-Terphenyl	84-15-1	98	%	70-135	01.17.20 01.10	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-007	Date Collected:	01.14.20 12.31	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.16.20 21.33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.20 21.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.16.20 21.33	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.16.20 21.33	

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Remuda Basin Unit 1

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-008	Date Collected:	01.14.20 12.41	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.50	Basis:	Wet Weight
Seq Number:	3113557				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2630**	49.9	mg/kg	01.16.20 19.53		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.17.20 01.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.17.20 01.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.17.20 01.30	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	01.17.20 01.30	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.17.20 01.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	01.17.20 01.30	
o-Terphenyl	84-15-1	104	%	70-135	01.17.20 01.30	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-008	Date Collected:	01.14.20 12.41	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 11.04	Basis:	Wet Weight
Seq Number:	3113592				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.16.20 21.52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.16.20 21.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.16.20 21.52	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.16.20 21.52	

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Remuda Basin Unit 1

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-009	Date Collected:	01.14.20 12.50	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 14.55	Basis:	Wet Weight
Seq Number:	3113577				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2210**	49.9	mg/kg	01.16.20 20.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.17.20 01.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.17.20 01.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.17.20 01.30	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.17.20 01.30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.17.20 01.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.17.20 01.30	
o-Terphenyl	84-15-1	98	%	70-135	01.17.20 01.30	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-009	Date Collected:	01.14.20 12.50	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 16.07	Basis:	Wet Weight
Seq Number:	3113594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.17.20 00.51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.17.20 00.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	01.17.20 00.51	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.17.20 00.51	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-010	Date Collected:	01.14.20 13.08	Sample Depth:	6.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 14.55	Basis:	Wet Weight
Seq Number:	3113577				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**638**	49.9	mg/kg	01.16.20 20.41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 01.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	01.17.20 01.49	
o-Terphenyl	84-15-1	103	%	70-135	01.17.20 01.49	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-010	Date Collected:	01.14.20 13.08	Sample Depth:	6.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 16.07	Basis:	Wet Weight
Seq Number:	3113594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.17.20 01.10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.17.20 01.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.17.20 01.10	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.17.20 01.10	

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LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-011	Date Collected:	01.14.20 13.20	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 14.55	Basis:	Wet Weight
Seq Number:	3113577				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1710**	50.0	mg/kg	01.16.20 20.57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 01.49	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 01.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	01.17.20 01.49	
o-Terphenyl	84-15-1	99	%	70-135	01.17.20 01.49	

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Remuda Basin Unit 1

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-011	Date Collected:	01.14.20 13.20	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 16.07	Basis:	Wet Weight
Seq Number:	3113594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.17.20 08.44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.17.20 08.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.17.20 08.44	
4-Bromofluorobenzene	460-00-4	103	%	70-130	01.17.20 08.44	

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Remuda Basin Unit 1

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-012	Date Collected:	01.14.20 13.35	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 14.55	Basis:	Wet Weight
Seq Number:	3113577				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**273**	49.9	mg/kg	01.16.20 21.03		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.17.20 02.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.17.20 02.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.17.20 02.09	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.17.20 02.09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.17.20 02.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.17.20 02.09	
o-Terphenyl	84-15-1	105	%	70-135	01.17.20 02.09	

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Remuda Basin Unit 1

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-012	Date Collected:	01.14.20 13.35	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 16.07	Basis:	Wet Weight
Seq Number:	3113594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.17.20 09.03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.17.20 09.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	01.17.20 09.03	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.17.20 09.03	

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Remuda Basin Unit 1

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-013	Date Collected:	01.14.20 13.50	Sample Depth:	0 - 5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 14.55	Basis:	Wet Weight
Seq Number:	3113577				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**744**	49.9	mg/kg	01.16.20 21.08		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	01.16.20 15.00	Basis:	Wet Weight
Seq Number:	3113603				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.17.20 02.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.17.20 02.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.17.20 02.09	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.17.20 02.09	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.17.20 02.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.17.20 02.09	
o-Terphenyl	84-15-1	98	%	70-135	01.17.20 02.09	

Certificate of Analytical Results 649280

LT Environmental, Inc., Arvada, CO

Remuda Basin Unit 1

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	01.16.20 10.20
Lab Sample Id:	649280-013	Date Collected:	01.14.20 13.50	Sample Depth:	0 - 5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.16.20 16.07	Basis:	Wet Weight
Seq Number:	3113594				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.17.20 00.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.17.20 00.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	01.17.20 00.32	
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.17.20 00.32	

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.

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

QC Summary 649280

LT Environmental, Inc.

Remuda Basin Unit 1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3113557 — Matrix: Solid — Date Prep: 01.16.20
MB Sample Id: 7694536-1-BLK — LCS Sample Id: 7694536-1-BKS — LCSD Sample Id: 7694536-1-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	270	108	274	110	90-110	1	20	mg/kg	01.16.20 16:58	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3113577 — Matrix: Solid — Date Prep: 01.16.20
MB Sample Id: 7694537-1-BLK — LCS Sample Id: 7694537-1-BKS — LCSD Sample Id: 7694537-1-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	257	103	267	107	90-110	4	20	mg/kg	01.16.20 20:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3113557 — Matrix: Soil — Date Prep: 01.16.20
Parent Sample Id: 649273-002 — MS Sample Id: 649273-002 S — MSD Sample Id: 649273-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	61.2	200	293	116	285	111	90-110	3	20	mg/kg	01.16.20 17:36	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3113557 — Matrix: Soil — Date Prep: 01.16.20
Parent Sample Id: 649273-012 — MS Sample Id: 649273-012 S — MSD Sample Id: 649273-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	184	200	412	114	424	119	90-110	3	20	mg/kg	01.16.20 18:54	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3113577 — Matrix: Soil — Date Prep: 01.16.20
Parent Sample Id: 649280-010 — MS Sample Id: 649280-010 S — MSD Sample Id: 649280-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	638	199	837	100	861	112	90-110	3	20	mg/kg	01.16.20 20:47	X

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 649280

LT Environmental, Inc.

Remuda Basin Unit 1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3113577 Matrix: Soil Date Prep: 01.16.20
Parent Sample Id: 649361-005 MS Sample Id: 649361-005 S MSD Sample Id: 649361-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	237	200	464	114	465	114	90-110	0	20	mg/kg	01.16.20 21:51	X

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3113603 Matrix: Solid Date Prep: 01.16.20
MB Sample Id: 7694557-1-BLK LCS Sample Id: 7694557-1-BKS LCSD Sample Id: 7694557-1-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	1140	114	1000	100	70-135	13	35	mg/kg	01.16.20 22:14	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	983	98	70-135	14	35	mg/kg	01.16.20 22:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		134		120		70-135	%	01.16.20 22:14
o-Terphenyl	97		129		116		70-135	%	01.16.20 22:14

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3113603 Matrix: Solid Date Prep: 01.16.20
MB Sample Id: 7694557-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.16.20 22:14	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3113603 Matrix: Soil Date Prep: 01.16.20
Parent Sample Id: 649021-010 MS Sample Id: 649021-010 S MSD Sample Id: 649021-010 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	945	95	1030	103	70-135	9	35	mg/kg	01.16.20 22:53	
Diesel Range Organics (DRO)	<50.2	1000	1030	103	1170	117	70-135	13	35	mg/kg	01.16.20 22:53	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		123		70-135	%	01.16.20 22:53
o-Terphenyl	111		119		70-135	%	01.16.20 22:53

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 649280

LT Environmental, Inc.

Remuda Basin Unit 1

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3113592 — Matrix: Solid — Date Prep: 01.16.20
MB Sample Id: 7694541-1-BLK — LCS Sample Id: 7694541-1-BKS — LCSD Sample Id: 7694541-1-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	0.0916	92	0.0974	97	70-130	6	35	mg/kg	01.16.20 13:29	
Toluene	<0.00200	0.100	0.0901	90	0.0970	97	70-130	7	35	mg/kg	01.16.20 13:29	
Ethylbenzene	<0.00200	0.100	0.0911	91	0.0980	98	71-129	7	35	mg/kg	01.16.20 13:29	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.196	98	70-135	7	35	mg/kg	01.16.20 13:29	
o-Xylene	<0.00200	0.100	0.0903	90	0.0973	97	71-133	7	35	mg/kg	01.16.20 13:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		101		70-130	%	01.16.20 13:29
4-Bromofluorobenzene	98		97		101		70-130	%	01.16.20 13:29

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3113594 — Matrix: Solid — Date Prep: 01.16.20
MB Sample Id: 7694543-1-BLK — LCS Sample Id: 7694543-1-BKS — LCSD Sample Id: 7694543-1-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	0.0916	92	0.0974	97	70-130	6	35	mg/kg	01.16.20 13:29	
Toluene	<0.00200	0.100	0.0901	90	0.0970	97	70-130	7	35	mg/kg	01.16.20 13:29	
Ethylbenzene	<0.00200	0.100	0.0911	91	0.0980	98	71-129	7	35	mg/kg	01.16.20 13:29	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.196	98	70-135	7	35	mg/kg	01.16.20 13:29	
o-Xylene	<0.00200	0.100	0.0903	90	0.0973	97	71-133	7	35	mg/kg	01.16.20 13:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		101		70-130	%	01.16.20 13:29
4-Bromofluorobenzene	98		97		101		70-130	%	01.16.20 13:29

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3113592 — Matrix: Soil — Date Prep: 01.16.20
Parent Sample Id: 649273-012 — MS Sample Id: 649273-012 S — MSD Sample Id: 649273-012 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	0.111	111	0.105	105	70-130	6	35	mg/kg	01.16.20 14:07	
Toluene	<0.00200	0.0998	0.108	108	0.101	101	70-130	7	35	mg/kg	01.16.20 14:07	
Ethylbenzene	<0.00200	0.0998	0.109	109	0.100	100	71-129	9	35	mg/kg	01.16.20 14:07	
m,p-Xylenes	<0.00399	0.200	0.217	109	0.200	101	70-135	8	35	mg/kg	01.16.20 14:07	
o-Xylene	<0.00200	0.0998	0.109	109	0.100	100	71-133	9	35	mg/kg	01.16.20 14:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		108		70-130	%	01.16.20 14:07
4-Bromofluorobenzene	106		113		70-130	%	01.16.20 14:07

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 649280

LT Environmental, Inc.

Remuda Basin Unit 1

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3113594 Matrix: Soil Date Prep: 01.16.20

Parent Sample Id: 649280-009 MS Sample Id: 649280-009 S MSD Sample Id: 649280-009 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	0.0747	75	0.0769	77	70-130	3	35	mg/kg	01.16.20 23:54	
Toluene	<0.00200	0.0998	0.0753	75	0.0752	76	70-130	0	35	mg/kg	01.16.20 23:54	
Ethylbenzene	<0.00200	0.0998	0.0764	77	0.0737	74	71-129	4	35	mg/kg	01.16.20 23:54	
m,p-Xylenes	<0.00399	0.200	0.152	76	0.145	73	70-135	5	35	mg/kg	01.16.20 23:54	
o-Xylene	<0.00200	0.0998	0.0759	76	0.0730	73	71-133	4	35	mg/kg	01.16.20 23:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	01.16.20 23:54
4-Bromofluorobenzene	102		105		70-130	%	01.16.20 23:54

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

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Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
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Work Order No: 449280

Page 1 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN UNIT 1	Turn Around	
Project Number:	012918058	Routine	☐
P.O. Number:		Rush:	3 DAY
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	Thermometer ID		
Received Intact:	(Yes) No	TNM007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	13	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
SW 01	S	1-13-20	1220	0-4	1	X	X	X	Composite
SW 02		1-13-20	1230	0-4	1	X	X	X	
FS 01		1-13-20	1236	4.5	1	X	X	X	
FS 02		1-13-20	1245	4.5	1	X	X	X	
FS 03		1-14-20	1207	6.5	1	X	X	X	
FS 04		1-14-20	1220	6	1	X	X	X	
FS 05		1-14-20	1231	8	1	X	X	X	
FS 06		1-14-20	1241	8	1	X	X	X	
FS 07		1-14-20	1250	8	1	X	X	X	
FS 08		1-14-20	1308	6.5	1	X	X	X	

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

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 Tl 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 Tl 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 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
		1/16/20 10:30	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

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Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
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Work Order No: 649280

Page 2 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN UNIT 1	Turn Around	
Project Number:	012918058	Routine	☐
P.O. Number:		Rush:	3 DAY
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
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	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS 09	S	1-14-20	1320	6	1	X	X	X	COMPOSITE
SW 03		1-14-20	1335	0-4	1	X	X	X	
SW 04		1-14-20	1350	0-5	1	X	X	X	

ANALYSIS REQUEST

Work Order Notes

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

CA

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 Tl 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 Tl 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 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
		1/16/20 10:20	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.16.2020 10.20.00 AM

Work Order #: 649280

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

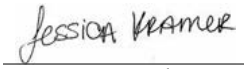
Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?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

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

Analyst: PH Device/Lot#:

Checklist completed by: Date: 01.16.2020

Elizabeth McClellan

Checklist reviewed by:  Date: 01.16.2020

Jessica Kramer

Analytical Report 650842

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

01.31.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

01.31.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **650842**
Remuda Basin 001
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 XENCO Report Number(s) 650842. 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 XENCO Laboratories. 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. 650842 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

A Small Business and Minority Company

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

Sample Cross Reference 650842

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS10	S	01.29.2020 13:00	4 ft	650842-001
FS11	S	01.29.2020 13:05	4 ft	650842-002
FS12	S	01.29.2020 13:10	4 ft	650842-003

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID:
Work Order Number(s): *650842*

Report Date: *01.31.2020*
Date Received: *01.30.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 650842

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id:

Contact: Dan Moir

Project Location:

Date Received in Lab: Thu 01.30.2020 10:30

Report Date: 01.31.2020 11:40

Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	650842-001		650842-002		650842-003					
	Field Id:	FS10		FS11		FS12					
	Depth:	4- ft		4- ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	01.29.2020 13:00		01.29.2020 13:05		01.29.2020 13:10					
Chloride by EPA 300	***Extracted:***	01.30.2020 12:00		01.30.2020 12:00		01.30.2020 12:00					
	Analyzed:	01.30.2020 14:11		01.30.2020 14:28		01.30.2020 14:39					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1580	49.5	1930	49.9	1360	49.5				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Certificate of Analytical Results 650842

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS10**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650842-001	Date Collected:	01.29.2020 13:00	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1580**	49.5	mg/kg	01.30.2020 14:11		5

Certificate of Analytical Results 650842

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS11**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650842-002	Date Collected:	01.29.2020 13:05	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1930**	49.9	mg/kg	01.30.2020 14:28		5

Certificate of Analytical Results 650842

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650842-003	Date Collected:	01.29.2020 13:10	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1360**	49.5	mg/kg	01.30.2020 14:39		5

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

QC Summary 650842

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Solid Date Prep: 01.30.2020
MB Sample Id: 7695576-1-BLK LCS Sample Id: 7695576-1-BKS LCSD Sample Id: 7695576-1-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	262	105	262	105	90-110	0	20	mg/kg	01.30.2020 12:19	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650838-001 MS Sample Id: 650838-001 S MSD Sample Id: 650838-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	235	198	1270	523	1310	543	90-110	3	20	mg/kg	01.30.2020 12:36	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650840-001 MS Sample Id: 650840-001 S MSD Sample Id: 650840-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9360	249	9690	133	9680	129	90-110	0	20	mg/kg	01.30.2020 16:15	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Received by OCD: 12/11/2025 7:09:27 AM

Chain of Custody

Work Order No: 650842

XENCO LABORATORIES

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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:		Routine	☐
P.O. Number:	2RP-5135	Rush:	3 day
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	0.8	Thermometer ID		
Received Intact:	(Yes) No		TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	3	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
FS10	S	12/29/20	1300	4'	1			X
FS11	S		1305					X
FS12	S		1310					X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
Robert McAfee		1/30/20 10:30	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01/30/2020 10:30:00 AM

Work Order #: 650842

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**

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 01/30/2020

Checklist reviewed by: Jessica Kramer Date: 01/30/2020

Jessica Kramer

Analytical Report 650843

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Bason 001

01.31.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

01.31.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **650843**
Remuda Bason 001
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 XENCO Report Number(s) 650843. 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 XENCO Laboratories. 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. 650843 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

A Small Business and Minority Company

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

Sample Cross Reference 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH11	S	01.28.2020 00:00	2 ft	650843-001
PH11A	S	01.28.2020 00:00	4 ft	650843-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Bason 001

Project ID:
Work Order Number(s): *650843*

Report Date: *01.31.2020*
Date Received: *01.30.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 650843

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Bason 001

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 01.30.2020 10:30
Report Date: 01.31.2020 11:40
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	650843-001	650843-002				
	Field Id:	PH11	PH11A				
	Depth:	2- ft	4- ft				
	Matrix:	SOIL	SOIL				
	Sampled:	01.28.2020 00:00	01.28.2020 00:00				
Chloride by EPA 300	***Extracted:***	01.30.2020 12:00	01.30.2020 12:00				
	Analyzed:	01.30.2020 14:45	01.30.2020 14:50				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		332 50.1	475 49.8				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Certificate of Analytical Results 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id:	**PH11**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650843-001	Date Collected:	01.28.2020 00:00	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**332**	50.1	mg/kg	01.30.2020 14:45		5

Certificate of Analytical Results 650843

LT Environmental, Inc., Arvada, CO

Remuda Bason 001

Sample Id:	**PH11A**	Matrix:	Soil	Date Received:	01.30.2020 10:30
Lab Sample Id:	650843-002	Date Collected:	01.28.2020 00:00	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	01.30.2020 12:00	Basis:	Wet Weight
Seq Number:	3115037				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**475**	49.8	mg/kg	01.30.2020 14:50		5

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

QC Summary 650843

LT Environmental, Inc.

Remuda Bason 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Solid Date Prep: 01.30.2020
MB Sample Id: 7695576-1-BLK LCS Sample Id: 7695576-1-BKS LCSD Sample Id: 7695576-1-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	262	105	262	105	90-110	0	20	mg/kg	01.30.2020 12:19	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650838-001 MS Sample Id: 650838-001 S MSD Sample Id: 650838-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	235	198	1270	523	1310	543	90-110	3	20	mg/kg	01.30.2020 12:36	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3115037 Matrix: Soil Date Prep: 01.30.2020
Parent Sample Id: 650840-001 MS Sample Id: 650840-001 S MSD Sample Id: 650840-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9360	249	9690	133	9680	129	90-110	0	20	mg/kg	01.30.2020 16:15	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 575 of 1252

Chain of Custody

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

Work Order No: 650843

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:		Routine	☐
P.O. Number:	2RP-5135	Rush:	3 day
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	0.8	Thermometer ID		
Received Intact:	(Yes) No		TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
PH1	S	12/28/20		2'	1			X	discrete
PH1A	S	12/28/20		4'	1			X	discrete

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Note: 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
1	Robert McAfee		1/30/20 10:30	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 10 of 11

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.30.2020 10.30.00 AM

Work Order #: 650843

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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 01.30.2020

Checklist reviewed by: Jessica Kramer Date: 01.30.2020

Jessica Kramer

Analytical Report 651336

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

06-FEB-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

06-FEB-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **651336**
Remuda Basin #1
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 XENCO Report Number(s) 651336. 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 XENCO Laboratories. 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. 651336 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW05	S	02-03-20 11:05	0 - 4 ft	651336-001
SW06	S	02-03-20 09:50	0 - 4 ft	651336-002
SW07	S	02-03-20 09:55	0 - 4 ft	651336-003
SW08	S	02-03-20 11:30	0 - 4 ft	651336-004
SW09	S	02-03-20 11:40	0 - 4 ft	651336-005
SW10	S	02-03-20 12:20	0 - 3 ft	651336-006
SW11	S	02-03-20 13:40	0 - 3 ft	651336-007
SW12	S	02-03-20 12:30	0 - 3 ft	651336-008
SW13	S	02-03-20 12:35	0 - 3 ft	651336-009
SW14	S	02-03-20 14:30	0 - 3 ft	651336-010
SW15	S	02-03-20 15:00	0 - 4 ft	651336-011
SW16	S	02-03-20 13:30	0 - 4 ft	651336-012

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *651336*

Report Date: *06-FEB-20*
Date Received: *02/04/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115626 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 651336

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Feb-04-20 02:12 pm
Report Date: 06-FEB-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	651336-001		651336-002		651336-003		651336-004		651336-005		651336-006	
	Field Id:	SW05		SW06		SW07		SW08		SW09		SW10	
	Depth:	0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-3 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-03-20 11:05		Feb-03-20 09:50		Feb-03-20 09:55		Feb-03-20 11:30		Feb-03-20 11:40		Feb-03-20 12:20	
BTEX by EPA 8021B	***Extracted:***	Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00	
	Analyzed:	Feb-05-20 01:30		Feb-05-20 01:51		Feb-05-20 02:11		Feb-05-20 02:31		Feb-05-20 02:52		Feb-05-20 03:12	
	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	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00403	0.00403	<0.00404	0.00404	<0.00402	0.00402	<0.00402	0.00402	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08	
	Analyzed:	Feb-05-20 16:18		Feb-05-20 16:24		Feb-05-20 16:30		Feb-05-20 16:36		Feb-05-20 16:53		Feb-05-20 16:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		222	50.2	101	10.0	22.7	10.1	255	50.4	40.6	10.1	102	50.5
TPH by SW8015 Mod	***Extracted:***	Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00	
	Analyzed:	Feb-05-20 17:02		Feb-05-20 17:41		Feb-05-20 17:41		Feb-05-20 18:01		Feb-05-20 18:01		Feb-05-20 18:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Total GRO-DRO		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Total TPH		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 651336

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Feb-04-20 02:12 pm
Report Date: 06-FEB-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	651336-007		651336-008		651336-009		651336-010		651336-011		651336-012	
	Field Id:	SW11		SW12		SW13		SW14		SW15		SW16	
	Depth:	0-3 ft		0-3 ft		0-3 ft		0-3 ft		0-4 ft		0-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-03-20 13:40		Feb-03-20 12:30		Feb-03-20 12:35		Feb-03-20 14:30		Feb-03-20 15:00		Feb-03-20 13:30	
BTEX by EPA 8021B	*Extracted:*	Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00		Feb-04-20 17:00	
	Analyzed:	Feb-05-20 03:33		Feb-05-20 03:53		Feb-05-20 04:13		Feb-05-20 04:34		Feb-05-20 05:35		Feb-05-20 05:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398	<0.00401	0.00401	<0.00404	0.00404
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202
Chloride by EPA 300	*Extracted:*	Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08		Feb-05-20 10:08	
	Analyzed:	Feb-05-20 17:05		Feb-05-20 17:11		Feb-05-20 17:28		Feb-05-20 17:34		Feb-05-20 17:40		Feb-05-20 17:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		21.0	10.0	419	50.1	136	50.4	115	50.2	67.6	50.2	135	50.4
TPH by SW8015 Mod	*Extracted:*	Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00		Feb-05-20 11:00	
	Analyzed:	Feb-05-20 18:20		Feb-05-20 18:40		Feb-05-20 18:40		Feb-05-20 18:59		Feb-05-20 19:19		Feb-05-20 19:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.0	50.0
Total GRO-DRO		<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.0	50.0
Total TPH		<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.0	50.0

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-001	Date Collected:	02.03.20 11.05	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**222**	50.2	mg/kg	02.05.20 16.18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.05.20 17.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.05.20 17.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.05.20 17.02	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.05.20 17.02	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.05.20 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.05.20 17.02	
o-Terphenyl	84-15-1	100	%	70-135	02.05.20 17.02	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW05**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-001	Date Collected:	02.03.20 11.05	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.05.20 01.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.20 01.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.05.20 01.30	
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.05.20 01.30	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-002	Date Collected:	02.03.20 09.50	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**101**	10.0	mg/kg	02.05.20 16.24		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 17.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.05.20 17.41	
o-Terphenyl	84-15-1	106	%	70-135	02.05.20 17.41	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW06**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-002	Date Collected:	02.03.20 09.50	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.05.20 01.51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.05.20 01.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.05.20 01.51	
4-Bromofluorobenzene	460-00-4	101	%	70-130	02.05.20 01.51	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-003	Date Collected:	02.03.20 09.55	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.7**	10.1	mg/kg	02.05.20 16.30		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 17.41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 17.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.05.20 17.41	
o-Terphenyl	84-15-1	97	%	70-135	02.05.20 17.41	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW07**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-003	Date Collected:	02.03.20 09.55	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.05.20 02.11	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.05.20 02.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.05.20 02.11	
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.05.20 02.11	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-004	Date Collected:	02.03.20 11.30	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	50.4	mg/kg	02.05.20 16.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 18.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 18.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 18.01	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 18.01	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	02.05.20 18.01	
o-Terphenyl	84-15-1	102	%	70-135	02.05.20 18.01	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW08**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-004	Date Collected:	02.03.20 11.30	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.20 02.31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.05.20 02.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.05.20 02.31	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.05.20 02.31	

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Remuda Basin #1

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-005	Date Collected:	02.03.20 11.40	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**40.6**	10.1	mg/kg	02.05.20 16.53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.05.20 18.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.05.20 18.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.05.20 18.01	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.05.20 18.01	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.05.20 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.05.20 18.01	
o-Terphenyl	84-15-1	99	%	70-135	02.05.20 18.01	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW09**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-005	Date Collected:	02.03.20 11.40	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.20 02.52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.05.20 02.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.05.20 02.52	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 02.52	

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Remuda Basin #1

Sample Id:	**SW10**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-006	Date Collected:	02.03.20 12.20	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**102**	50.5	mg/kg	02.05.20 16.59		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 18.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 18.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 18.20	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 18.20	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 18.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.05.20 18.20	
o-Terphenyl	84-15-1	104	%	70-135	02.05.20 18.20	

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Remuda Basin #1

Sample Id:	**SW10**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-006	Date Collected:	02.03.20 12.20	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.05.20 03.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.20 03.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.05.20 03.12	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 03.12	

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Remuda Basin #1

Sample Id:	**SW11**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-007	Date Collected:	02.03.20 13.40	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.0**	10.0	mg/kg	02.05.20 17.05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.05.20 18.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.05.20 18.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.05.20 18.20	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.05.20 18.20	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.05.20 18.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.05.20 18.20	
o-Terphenyl	84-15-1	97	%	70-135	02.05.20 18.20	

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Remuda Basin #1

Sample Id:	**SW11**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-007	Date Collected:	02.03.20 13.40	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.05.20 03.33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.05.20 03.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.05.20 03.33	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.05.20 03.33	

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Remuda Basin #1

Sample Id:	**SW12**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-008	Date Collected:	02.03.20 12.30	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**419**	50.1	mg/kg	02.05.20 17.11		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 18.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	02.05.20 18.40	
o-Terphenyl	84-15-1	105	%	70-135	02.05.20 18.40	

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Remuda Basin #1

Sample Id:	**SW12**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-008	Date Collected:	02.03.20 12.30	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.05.20 03.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.20 03.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.05.20 03.53	
4-Bromofluorobenzene	460-00-4	102	%	70-130	02.05.20 03.53	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW13**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-009	Date Collected:	02.03.20 12.35	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**136**	50.4	mg/kg	02.05.20 17.28		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.05.20 18.40	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.05.20 18.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.05.20 18.40	
o-Terphenyl	84-15-1	98	%	70-135	02.05.20 18.40	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW13**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-009	Date Collected:	02.03.20 12.35	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.05.20 04.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.05.20 04.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.05.20 04.13	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 04.13	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW14**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-010	Date Collected:	02.03.20 14.30	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**115**	50.2	mg/kg	02.05.20 17.34		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.05.20 18.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.05.20 18.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.05.20 18.59	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.05.20 18.59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.05.20 18.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	02.05.20 18.59	
o-Terphenyl	84-15-1	108	%	70-135	02.05.20 18.59	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW14**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-010	Date Collected:	02.03.20 14.30	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.05.20 04.34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.05.20 04.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.05.20 04.34	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 04.34	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW15**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-011	Date Collected:	02.03.20 15.00	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**67.6**	50.2	mg/kg	02.05.20 17.40		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.05.20 19.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	02.05.20 19.19	
o-Terphenyl	84-15-1	104	%	70-135	02.05.20 19.19	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW15**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-011	Date Collected:	02.03.20 15.00	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.05.20 05.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.05.20 05.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.05.20 05.35	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 05.35	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW16**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-012	Date Collected:	02.03.20 13.30	Sample Depth:	0 - 4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.05.20 10.08	Basis:	Wet Weight
Seq Number:	3115697				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**135**	50.4	mg/kg	02.05.20 17.46		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.05.20 11.00	Basis:	Wet Weight
Seq Number:	3115701				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.05.20 19.19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.05.20 19.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.05.20 19.19	
o-Terphenyl	84-15-1	96	%	70-135	02.05.20 19.19	

Certificate of Analytical Results 651336

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW16**	Matrix:	Soil	Date Received:	02.04.20 14.12
Lab Sample Id:	651336-012	Date Collected:	02.03.20 13.30	Sample Depth:	0 - 4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.04.20 17.00	Basis:	Wet Weight
Seq Number:	3115626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.05.20 05.55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.05.20 05.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.05.20 05.55	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.05.20 05.55	

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.

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

QC Summary 651336

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115697 — Matrix: Solid — Date Prep: 02.05.20
MB Sample Id: 7695986-1-BLK — LCS Sample Id: 7695986-1-BKS — LCSD Sample Id: 7695986-1-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	261	104	259	104	90-110	1	20	mg/kg	02.05.20 15:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115697 — Matrix: Soil — Date Prep: 02.05.20
Parent Sample Id: 651159-018 — MS Sample Id: 651159-018 S — MSD Sample Id: 651159-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	995	200	1200	103	1210	108	90-110	1	20	mg/kg	02.05.20 15:19	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115697 — Matrix: Soil — Date Prep: 02.05.20
Parent Sample Id: 651336-004 — MS Sample Id: 651336-004 S — MSD Sample Id: 651336-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	255	202	462	102	455	101	90-110	2	20	mg/kg	02.05.20 16:42	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115701 — Matrix: Solid — Date Prep: 02.05.20
MB Sample Id: 7696086-1-BLK — LCS Sample Id: 7696086-1-BKS — LCSD Sample Id: 7696086-1-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	1080	108	979	98	70-135	10	35	mg/kg	02.05.20 16:42	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	986	99	70-135	7	35	mg/kg	02.05.20 16:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		131		123		70-135	%	02.05.20 16:42
o-Terphenyl	126		120		113		70-135	%	02.05.20 16:42

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115701 — Matrix: Solid — Date Prep: 02.05.20
MB Sample Id: 7696086-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.05.20 16:42	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 651336

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3115701 | Matrix: Soil | Date Prep: 02.05.20
Parent Sample Id: 651336-001 | MS Sample Id: 651336-001 S | MSD Sample Id: 651336-001 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)	<50.1	1000	1240	124	1080	108	70-135	14	35	mg/kg	02.05.20 17:22	
Diesel Range Organics (DRO)	<50.1	1000	1100	110	1100	110	70-135	0	35	mg/kg	02.05.20 17:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	132		120		70-135	%	02.05.20 17:22
o-Terphenyl	124		111		70-135	%	02.05.20 17:22

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115626 | Matrix: Solid | Date Prep: 02.04.20
MB Sample Id: 7695975-1-BLK | LCS Sample Id: 7695975-1-BKS | LCSD Sample Id: 7695975-1-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	0.0932	93	0.107	107	70-130	14	35	mg/kg	02.04.20 23:48	
Toluene	<0.00200	0.100	0.0978	98	0.103	103	70-130	5	35	mg/kg	02.04.20 23:48	
Ethylbenzene	<0.00200	0.100	0.0885	89	0.0985	99	71-129	11	35	mg/kg	02.04.20 23:48	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.203	102	70-135	5	35	mg/kg	02.04.20 23:48	
o-Xylene	<0.00200	0.100	0.0933	93	0.102	102	71-133	9	35	mg/kg	02.04.20 23:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		104		70-130	%	02.04.20 23:48
4-Bromofluorobenzene	97		98		97		70-130	%	02.04.20 23:48

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115626 | Matrix: Soil | Date Prep: 02.04.20
Parent Sample Id: 651336-001 | MS Sample Id: 651336-001 S | MSD Sample Id: 651336-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0990	100	0.0996	99	70-130	1	35	mg/kg	02.05.20 00:29	
Toluene	<0.00198	0.0992	0.0957	96	0.0959	95	70-130	0	35	mg/kg	02.05.20 00:29	
Ethylbenzene	<0.00198	0.0992	0.0918	93	0.0917	91	71-129	0	35	mg/kg	02.05.20 00:29	
m,p-Xylenes	<0.00397	0.198	0.189	95	0.188	93	70-135	1	35	mg/kg	02.05.20 00:29	
o-Xylene	<0.00198	0.0992	0.0953	96	0.0951	94	71-133	0	35	mg/kg	02.05.20 00:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	02.05.20 00:29
4-Bromofluorobenzene	97		97		70-130	%	02.05.20 00:29

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

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Chain of Custody

Work Order No: 651330

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	01391001	Routine	☑
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.4	Thermometer ID	
Received Intact:	Yes No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	12

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW05	S	2/3/20	1105	0-4'	1	X	X	X
SW06	S		0950	0-4'				
SW07	S		0955	0-4'				
SW08	S		1130	0-4'				
SW09	S		1140	0-4'				
SW10	S		1200	0-3'				
SW11	S		1340	0-3'				
SW12	S		1230	0-3'				
SW13	S		1235	0-3'				
SW14	S		1430	0-3'				

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		2/4/2020 14:42	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
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Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

XENCO LABORATORIES

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Work Order No: 451336

Page 2 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST RP Brownfields RC Superfund
State of Project:
Reporting:Level II Level III PST/UST RRP Level IV
Deliverables: EDD ADaPT Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	01291901	Routine	
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

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

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW15	S	2/3/20	1500	0-4'	1	X	X	X
SW16	S	2/3/20	1330	0-4'	1	X	X	X
	S							
	S							
	S							
	S							
	S							
	S							
	S							
	S							

Work Order Notes

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

Sample Comments

Composite
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 Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 : Hg

ce: 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
rvice. 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
nce. 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
		4/4/20 14:12	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Analytical Report 651536

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

07-FEB-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07-FEB-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **651536**
Remuda Basin 001
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 XENCO Report Number(s) 651536. 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 XENCO Laboratories. 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. 651536 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Sample Cross Reference 651536

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW17	S	02-04-20 10:30	0 - 3 ft	651536-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *651536*

Report Date: *07-FEB-20*
Date Received: *02/06/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115846 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 651536

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu Feb-06-20 08:50 am
Report Date: 07-FEB-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	651536-001					
	Field Id:	SW17					
	Depth:	0-3 ft					
	Matrix:	SOIL					
	Sampled:	Feb-04-20 10:30					
BTEX by EPA 8021B	***Extracted:***	Feb-06-20 13:42					
	Analyzed:	Feb-06-20 15:29					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00399	0.00399				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	Feb-06-20 13:33					
	Analyzed:	Feb-06-20 16:26					
	Units/RL:	mg/kg	RL				
Chloride		334	49.7				
TPH by SW8015 Mod	***Extracted:***	Feb-06-20 13:30					
	Analyzed:	Feb-06-20 17:54					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9				
Total GRO-DRO		<49.9	49.9				
Total TPH		<49.9	49.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 651536

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW17**	Matrix:	Soil	Date Received:	02.06.20 08.50
Lab Sample Id:	651536-001	Date Collected:	02.04.20 10.30	Sample Depth:	0 - 3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.06.20 13.33	Basis:	Wet Weight
Seq Number:	3115842				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**334**	49.7	mg/kg	02.06.20 16.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.06.20 13.30	Basis:	Wet Weight
Seq Number:	3115857				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.06.20 17.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.06.20 17.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.06.20 17.54	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	02.06.20 17.54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.06.20 17.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	02.06.20 17.54	
o-Terphenyl	84-15-1	102	%	70-135	02.06.20 17.54	

Certificate of Analytical Results 651536

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW17**	Matrix:	Soil	Date Received:	02.06.20 08.50
Lab Sample Id:	651536-001	Date Collected:	02.04.20 10.30	Sample Depth:	0 - 3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.06.20 13.42	Basis:	Wet Weight
Seq Number:	3115846				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.06.20 15.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.06.20 15.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	02.06.20 15.29	
4-Bromofluorobenzene	460-00-4	89	%	70-130	02.06.20 15.29	

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.

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

QC Summary 651536

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115842 — Matrix: Solid — Date Prep: 02.06.20
MB Sample Id: 7696133-1-BLK — LCS Sample Id: 7696133-1-BKS — LCSD Sample Id: 7696133-1-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	243	97	250	100	90-110	3	20	mg/kg	02.06.20 15:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115842 — Matrix: Soil — Date Prep: 02.06.20
Parent Sample Id: 651533-017 — MS Sample Id: 651533-017 S — MSD Sample Id: 651533-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	230	201	443	106	442	105	90-110	0	20	mg/kg	02.06.20 15:43	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115842 — Matrix: Soil — Date Prep: 02.06.20
Parent Sample Id: 651625-003 — MS Sample Id: 651625-003 S — MSD Sample Id: 651625-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	388	198	594	104	598	106	90-110	1	20	mg/kg	02.06.20 17:58	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115857 — Matrix: Solid — Date Prep: 02.06.20
MB Sample Id: 7696155-1-BLK — LCS Sample Id: 7696155-1-BKS — LCSD Sample Id: 7696155-1-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	1010	101	70-135	9	35	mg/kg	02.06.20 16:12	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1040	104	70-135	7	35	mg/kg	02.06.20 16:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		120		126		70-135	%	02.06.20 16:12
o-Terphenyl	93		109		106		70-135	%	02.06.20 16:12

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115857 — Matrix: Solid — Date Prep: 02.06.20
MB Sample Id: 7696155-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.06.20 16:12	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Final 1.000

QC Summary 651536

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3115857 | Matrix: Soil | Date Prep: 02.06.20
Parent Sample Id: 651533-017 | MS Sample Id: 651533-017 S | MSD Sample Id: 651533-017 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)	<50.1	1000	1240	124	1090	109	70-135	13	35	mg/kg	02.06.20 16:54	
Diesel Range Organics (DRO)	<50.1	1000	1100	110	1120	112	70-135	2	35	mg/kg	02.06.20 16:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		119		70-135	%	02.06.20 16:54
o-Terphenyl	121		110		70-135	%	02.06.20 16:54

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115846 | Matrix: Solid | Date Prep: 02.06.20
MB Sample Id: 7696136-1-BLK | LCS Sample Id: 7696136-1-BKS | LCSD Sample Id: 7696136-1-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	0.124	124	0.123	123	70-130	1	35	mg/kg	02.06.20 12:05	
Toluene	<0.00200	0.100	0.114	114	0.113	113	70-130	1	35	mg/kg	02.06.20 12:05	
Ethylbenzene	<0.00200	0.100	0.110	110	0.110	110	71-129	0	35	mg/kg	02.06.20 12:05	
m,p-Xylenes	<0.00400	0.200	0.217	109	0.215	108	70-135	1	35	mg/kg	02.06.20 12:05	
o-Xylene	<0.00200	0.100	0.108	108	0.107	107	71-133	1	35	mg/kg	02.06.20 12:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		109		109		70-130	%	02.06.20 12:05
4-Bromofluorobenzene	94		92		92		70-130	%	02.06.20 12:05

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115846 | Matrix: Soil | Date Prep: 02.06.20
Parent Sample Id: 651533-017 | MS Sample Id: 651533-017 S | MSD Sample Id: 651533-017 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	0.129	129	0.117	116	70-130	10	35	mg/kg	02.06.20 12:46	
Toluene	<0.00200	0.0998	0.118	118	0.107	106	70-130	10	35	mg/kg	02.06.20 12:46	
Ethylbenzene	<0.00200	0.0998	0.114	114	0.102	101	71-129	11	35	mg/kg	02.06.20 12:46	
m,p-Xylenes	<0.00399	0.200	0.223	112	0.200	99	70-135	11	35	mg/kg	02.06.20 12:46	
o-Xylene	<0.00200	0.0998	0.111	111	0.100	99	71-133	10	35	mg/kg	02.06.20 12:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	02.06.20 12:46
4-Bromofluorobenzene	93		96		70-130	%	02.06.20 12:46

MS/MSD Percent Recovery | [D] = 100*(C-A) / B | LCS = Laboratory Control Sample | MS = Matrix Spike
Relative Percent Difference | RPD = 200* | (C-E) / (C+E) | | A = Parent Result | B = Spike Added
LCS/LCSD Recovery | [D] = 100 * (C) / [B] | C = MS/LCS Result | D = MSD/LCSD % Rec
Log Difference | Log Diff. = Log(Sample Duplicate) - Log(Original Sample) | E = MSD/LCSD Result

Page 622 of 1252

Chain of Custody

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

Work Order No: 625536

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO
Address:	3300 North A Street	Address:	522 W. Mermod St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	~~Midland, Tx 79705~~ Carlsbad, NM 88220
Phone:	432.704.5178	Email:	ggreen@tenv.com ; dmoir@tenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01919001	Routine	☑
P.O. Number:	20-5135	Rush:	
Sampler's Name:	~~Garrett Green~~ Jerry Hill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	0.6	Thermometer ID		
Received Intact:	Yes No	T-NM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW17	S	2/4/20	1030	0-3'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		2/6/20 6:00			2/6/20 08:50

Revised Date 05.14.18 Rev. 2018.1

Received by OCD: 12/1/2025 7:09:27 AM
Final 1.000
Page 11 of 12
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.06.2020 08.50.00 AM

Work Order #: 651536

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)?	.6
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.06.2020

Checklist reviewed by: Jessica Kramer Date: 02.07.2020

Jessica Kramer

Analytical Report 652512

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin

012918058

17-FEB-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

17-FEB-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **652512**
Remuda Basin
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 XENCO Report Number(s) 652512. 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 XENCO Laboratories. 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. 652512 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW21	S	02-14-20 11:15	0 - 2 ft	652512-001
SW22	S	02-14-20 11:50	0 - 2 ft	652512-002
SW23	S	02-14-20 12:45	0 - 2 ft	652512-003
SW24	S	02-14-20 13:15	0 - 2 ft	652512-004
SW25	S	02-14-20 13:50	0 - 2 ft	652512-005
SW26	S	02-14-20 14:12	0 - 2 ft	652512-006

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin

Project ID: *012918058*
Work Order Number(s): *652512*

Report Date: *17-FEB-20*
Date Received: *02/14/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3116667 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3116676 Chloride by EPA 300

Lab Sample ID 652512-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 652512-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 652512

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin

Project Id: 012918058
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-14-20 04:40 pm
Report Date: 17-FEB-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	652512-001		652512-002		652512-003		652512-004		652512-005		652512-006	
	Field Id:	SW21		SW22		SW23		SW24		SW25		SW26	
	Depth:	0-2 ft		0-2 ft		0-2 ft		0-2 ft		0-2 ft		0-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-14-20 11:15		Feb-14-20 11:50		Feb-14-20 12:45		Feb-14-20 13:15		Feb-14-20 13:50		Feb-14-20 14:12	
BTEX by EPA 8021B	***Extracted:***	Feb-14-20 18:00		Feb-14-20 18:00		Feb-14-20 18:00		Feb-14-20 18:00		Feb-14-20 18:00		Feb-14-20 18:00	
	Analyzed:	Feb-15-20 11:47		Feb-15-20 12:07		Feb-15-20 12:27		Feb-15-20 12:48		Feb-15-20 13:08		Feb-15-20 13:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
m,p-Xylenes		<0.00396	0.00396	<0.00401	0.00401	<0.00399	0.00399	<0.00399	0.00399	<0.00402	0.00402	<0.00403	0.00403
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	Feb-15-20 08:00		Feb-15-20 08:00		Feb-15-20 08:00		Feb-15-20 08:00		Feb-15-20 08:00		Feb-15-20 08:00	
	Analyzed:	Feb-15-20 10:50		Feb-15-20 11:06		Feb-15-20 11:12		Feb-15-20 11:17		Feb-15-20 11:23		Feb-15-20 11:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1250	49.9	177	49.9	343	49.8	559	100	529	49.6	678	49.9
TPH by SW8015 Mod	***Extracted:***	Feb-14-20 17:15		Feb-14-20 17:15		Feb-14-20 17:15		Feb-14-20 17:15		Feb-14-20 17:15		Feb-14-20 17:15	
	Analyzed:	Feb-15-20 03:33		Feb-15-20 03:53		Feb-15-20 04:12		Feb-15-20 04:12		Feb-15-20 04:32		Feb-15-20 04:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	<49.8	49.8	<50.3	50.3	<50.2	50.2	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8	<49.8	49.8	<50.3	50.3	<50.2	50.2	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<49.8	49.8	<50.3	50.3	<50.2	50.2	<50.0	50.0
Total GRO-DRO		<49.8	49.8	<49.8	49.8	<49.8	49.8	<50.3	50.3	<50.2	50.2	<50.0	50.0
Total TPH		<49.8	49.8	<49.8	49.8	<49.8	49.8	<50.3	50.3	<50.2	50.2	<50.0	50.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW21**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-001	Date Collected:	02.14.20 11.15	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1250**	49.9	mg/kg	02.15.20 10.50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.15.20 03.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.15.20 03.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.15.20 03.33	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.15.20 03.33	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.15.20 03.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.15.20 03.33	
o-Terphenyl	84-15-1	109	%	70-135	02.15.20 03.33	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW21**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-001	Date Collected:	02.14.20 11.15	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	02.15.20 11.47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.15.20 11.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.15.20 11.47	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.15.20 11.47	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW22**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-002	Date Collected:	02.14.20 11.50	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**177**	49.9	mg/kg	02.15.20 11.06		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.15.20 03.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.15.20 03.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.15.20 03.53	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.15.20 03.53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.15.20 03.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.15.20 03.53	
o-Terphenyl	84-15-1	109	%	70-135	02.15.20 03.53	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW22**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-002	Date Collected:	02.14.20 11.50	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.15.20 12.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.15.20 12.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.15.20 12.07	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.15.20 12.07	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW23**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-003	Date Collected:	02.14.20 12.45	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**343**	49.8	mg/kg	02.15.20 11.12		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.15.20 04.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.15.20 04.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.15.20 04.12	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.15.20 04.12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.15.20 04.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.15.20 04.12	
o-Terphenyl	84-15-1	117	%	70-135	02.15.20 04.12	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW23**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-003	Date Collected:	02.14.20 12.45	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.15.20 12.27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.15.20 12.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.15.20 12.27	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.15.20 12.27	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW24**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-004	Date Collected:	02.14.20 13.15	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**559**	100	mg/kg	02.15.20 11.17		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.15.20 04.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.15.20 04.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.15.20 04.12	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.15.20 04.12	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.15.20 04.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.15.20 04.12	
o-Terphenyl	84-15-1	110	%	70-135	02.15.20 04.12	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW24**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-004	Date Collected:	02.14.20 13.15	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.15.20 12.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.15.20 12.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.15.20 12.48	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.15.20 12.48	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW25**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-005	Date Collected:	02.14.20 13.50	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**529**	49.6	mg/kg	02.15.20 11.23		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.15.20 04.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.15.20 04.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.15.20 04.32	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.15.20 04.32	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.15.20 04.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	02.15.20 04.32	
o-Terphenyl	84-15-1	120	%	70-135	02.15.20 04.32	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW25**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-005	Date Collected:	02.14.20 13.50	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.15.20 13.08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.15.20 13.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.15.20 13.08	
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.15.20 13.08	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW26**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-006	Date Collected:	02.14.20 14.12	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.15.20 08.00	Basis:	Wet Weight
Seq Number:	3116676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**678**	49.9	mg/kg	02.15.20 11.39		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.14.20 17.15	Basis:	Wet Weight
Seq Number:	3116693				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.15.20 04.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.15.20 04.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.15.20 04.32	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.15.20 04.32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.15.20 04.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	02.15.20 04.32	
o-Terphenyl	84-15-1	113	%	70-135	02.15.20 04.32	

Certificate of Analytical Results 652512

LT Environmental, Inc., Arvada, CO

Remuda Basin

Sample Id:	**SW26**	Matrix:	Soil	Date Received:	02.14.20 16.40
Lab Sample Id:	652512-006	Date Collected:	02.14.20 14.12	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.14.20 18.00	Basis:	Wet Weight
Seq Number:	3116667				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.15.20 13.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.15.20 13.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.15.20 13.29	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.15.20 13.29	

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.

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

QC Summary 652512

LT Environmental, Inc.

Remuda Basin

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116676 — Matrix: Solid — Date Prep: 02.15.20
MB Sample Id: 7696735-1-BLK — LCS Sample Id: 7696735-1-BKS — LCSD Sample Id: 7696735-1-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	262	105	263	105	90-110	0	20	mg/kg	02.15.20 10:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116676 — Matrix: Soil — Date Prep: 02.15.20
Parent Sample Id: 652512-001 — MS Sample Id: 652512-001 S — MSD Sample Id: 652512-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1250	198	1480	116	1470	111	90-110	1	20	mg/kg	02.15.20 10:56	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3116676 — Matrix: Soil — Date Prep: 02.15.20
Parent Sample Id: 652514-005 — MS Sample Id: 652514-005 S — MSD Sample Id: 652514-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	180	200	391	106	395	108	90-110	1	20	mg/kg	02.15.20 12:12	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3116693 — Matrix: Solid — Date Prep: 02.14.20
MB Sample Id: 7696789-1-BLK — LCS Sample Id: 7696789-1-BKS — LCSD Sample Id: 7696789-1-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	944	94	827	83	70-135	13	35	mg/kg	02.15.20 01:35	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	873	87	70-135	17	35	mg/kg	02.15.20 01:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		118		100		70-135	%	02.15.20 01:35
o-Terphenyl	88		112		100		70-135	%	02.15.20 01:35

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3116693 — Matrix: Solid — Date Prep: 02.14.20
MB Sample Id: 7696789-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.15.20 01:35	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 652512

LT Environmental, Inc.

Remuda Basin

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3116693 | Matrix: Soil | Date Prep: 02.14.20
Parent Sample Id: 652450-005 | MS Sample Id: 652450-005 S | MSD Sample Id: 652450-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	897	90	985	99	70-135	9	35	mg/kg	02.15.20 02:15	
Diesel Range Organics (DRO)	<49.9	997	961	96	1090	109	70-135	13	35	mg/kg	02.15.20 02:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		124		70-135	%	02.15.20 02:15
o-Terphenyl	110		118		70-135	%	02.15.20 02:15

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3116667 | Matrix: Solid | Date Prep: 02.14.20
MB Sample Id: 7696734-1-BLK | LCS Sample Id: 7696734-1-BKS | LCSD Sample Id: 7696734-1-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	0.107	107	0.100	100	70-130	7	35	mg/kg	02.15.20 10:04	
Toluene	<0.00200	0.100	0.103	103	0.0969	97	70-130	6	35	mg/kg	02.15.20 10:04	
Ethylbenzene	<0.00200	0.100	0.0986	99	0.0921	92	71-129	7	35	mg/kg	02.15.20 10:04	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.188	94	70-135	7	35	mg/kg	02.15.20 10:04	
o-Xylene	<0.00200	0.100	0.102	102	0.0957	96	71-133	6	35	mg/kg	02.15.20 10:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		104		70-130	%	02.15.20 10:04
4-Bromofluorobenzene	95		92		94		70-130	%	02.15.20 10:04

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3116667 | Matrix: Soil | Date Prep: 02.14.20
Parent Sample Id: 652512-001 | MS Sample Id: 652512-001 S | MSD Sample Id: 652512-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0973	97	0.0993	100	70-130	2	35	mg/kg	02.15.20 19:16	
Toluene	<0.00201	0.100	0.0914	91	0.0936	94	70-130	2	35	mg/kg	02.15.20 19:16	
Ethylbenzene	<0.00201	0.100	0.0853	85	0.0875	88	71-129	3	35	mg/kg	02.15.20 19:16	
m,p-Xylenes	<0.00402	0.201	0.173	86	0.178	90	70-135	3	35	mg/kg	02.15.20 19:16	
o-Xylene	<0.00201	0.100	0.0861	86	0.0888	90	71-133	3	35	mg/kg	02.15.20 19:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		70-130	%	02.15.20 19:16
4-Bromofluorobenzene	96		95		70-130	%	02.15.20 19:16

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

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Chain of Custody

Work Order No: 652512

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012918058	Routine	☐
P.O. Number:		Rush:	3 DAY
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	Thermometer ID	TN1007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	6	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
SW 21	S	2/14/20	1115	0-2'	1	X	X	X	COMPOSITE
SW 22	S	2/14/20	1150	0-2	1	X	X	X	
SW 23	S	2/14/20	1245	0-2	1	X	X	X	
SW 24	S	2/14/20	1315	0-2	1	X	X	X	
SW 25	S	2/14/20	1350	0-2	1	X	X	X	
SW 26	S	2/14/20	1412	0-2	1	X	X	X	

ANALYSIS REQUEST

Work Order Notes

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

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 Tl 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 Tl 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 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
		2/14/20 16:40	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 21 of 21

Analytical Report 653208

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

02.24.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02.24.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **653208**
Remuda Basin #1
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 XENCO Report Number(s) 653208. 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 XENCO Laboratories. 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. 653208 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

John Builes
Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW21	S	02.18.2020 11:05	0 - 2 ft	653208-001
SW26	S	02.18.2020 11:50	0 - 2 ft	653208-002
SW27	S	02.18.2020 12:24	0 - 2 ft	653208-003
SW28	S	02.18.2020 14:30	0 - 2 ft	653208-004
SW29	S	02.18.2020 14:50	0 - 2 ft	653208-005
SW32	S	02.19.2020 09:40	0 - 2 ft	653208-006
SW30	S	02.19.2020 11:20	0 - 2 ft	653208-007
SW31	S	02.19.2020 11:50	0 - 2 ft	653208-008

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *653208*

Report Date: *02.24.2020*
Date Received: *02.20.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3117363 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 653208

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 02.20.2020 16:28
Report Date: 02.24.2020 16:15
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	653208-001		653208-002		653208-003		653208-004		653208-005		653208-006	
	Field Id:	SW21		SW26		SW27		SW28		SW29		SW32	
	Depth:	0-2 ft		0-2 ft		0-2 ft		0-2 ft		0-2 ft		0-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	02.18.2020 11:05		02.18.2020 11:50		02.18.2020 12:24		02.18.2020 14:30		02.18.2020 14:50		02.19.2020 09:40	
BTEX by EPA 8021B	***Extracted:***	02.20.2020 20:00		02.20.2020 20:00		02.20.2020 20:00		02.20.2020 20:00		02.20.2020 20:00		02.20.2020 20:00	
	Analyzed:	02.21.2020 15:05		02.21.2020 15:25		02.21.2020 15:46		02.21.2020 16:06		02.21.2020 16:26		02.21.2020 16:47	
	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	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00401	0.00401	<0.00402	0.00402	<0.00399	0.00399	<0.0000398	0.0000398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.0000199	0.0000199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	02.21.2020 07:30		02.21.2020 07:30		02.21.2020 07:30		02.21.2020 07:30		02.21.2020 07:30		02.21.2020 07:30	
	Analyzed:	02.21.2020 13:19		02.21.2020 13:25		02.21.2020 13:43		02.21.2020 13:49		02.21.2020 13:55		02.21.2020 14:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		101	9.96	407	49.9	48.7	10.1	222	49.7	464	49.8	194	9.96
TPH by SW8015 Mod	***Extracted:***	02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15	
	Analyzed:	02.22.2020 02:42		02.22.2020 03:21		02.22.2020 03:21		02.22.2020 03:40		02.22.2020 03:40		02.22.2020 04:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total GRO-DRO		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total TPH		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

John Builes
Project Manager

Certificate of Analysis Summary 653208

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 02.20.2020 16:28
Report Date: 02.24.2020 16:15
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	653208-007		653208-008			
	Field Id:	SW30		SW31			
	Depth:	0-2 ft		0-2 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	02.19.2020 11:20		02.19.2020 11:50			
BTEX by EPA 8021B	***Extracted:***	02.20.2020 20:00		02.20.2020 20:00			
	Analyzed:	02.21.2020 17:07		02.21.2020 17:28			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00199	0.00199	<0.00200	0.00200		
Toluene		<0.00199	0.00199	<0.00200	0.00200		
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200		
m,p-Xylenes		<0.00398	0.00398	<0.00400	0.00400		
o-Xylene		<0.00199	0.00199	<0.00200	0.00200		
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200		
Total BTEX		<0.00199	0.00199	<0.00200	0.00200		
Chloride by EPA 300	***Extracted:***	02.21.2020 07:30		02.21.2020 07:30			
	Analyzed:	02.21.2020 14:07		02.21.2020 14:40			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		523	49.8	36.0	9.88		
TPH by SW8015 Mod	***Extracted:***	02.21.2020 17:15		02.21.2020 17:15			
	Analyzed:	02.22.2020 04:00		02.22.2020 04:19			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.0	50.0		
Diesel Range Organics (DRO)		<50.1	50.1	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.0	50.0		
Total GRO-DRO		<50.1	50.1	<50.0	50.0		
Total TPH		<50.1	50.1	<50.0	50.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

John Builes
Project Manager

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW21**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-001	Date Collected:	02.18.2020 11:05	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**101**	9.96	mg/kg	02.21.2020 13:19		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.22.2020 02:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.22.2020 02:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.22.2020 02:42	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.22.2020 02:42	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.22.2020 02:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	02.22.2020 02:42	
o-Terphenyl	84-15-1	106	%	70-135	02.22.2020 02:42	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW21**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-001	Date Collected:	02.18.2020 11:05	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.21.2020 15:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 15:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 15:05	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 15:05	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW26**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-002	Date Collected:	02.18.2020 11:50	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**407**	49.9	mg/kg	02.21.2020 13:25		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 03:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 03:21	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 03:21	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 03:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 03:21	
o-Terphenyl	84-15-1	113	%	70-135	02.22.2020 03:21	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW26**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-002	Date Collected:	02.18.2020 11:50	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.21.2020 15:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 15:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	02.21.2020 15:25	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 15:25	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW27**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-003	Date Collected:	02.18.2020 12:24	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.7**	10.1	mg/kg	02.21.2020 13:43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.22.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.22.2020 03:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.22.2020 03:21	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.22.2020 03:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.22.2020 03:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.22.2020 03:21	
o-Terphenyl	84-15-1	112	%	70-135	02.22.2020 03:21	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW27**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-003	Date Collected:	02.18.2020 12:24	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.21.2020 15:46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.21.2020 15:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.21.2020 15:46	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.21.2020 15:46	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW28**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-004	Date Collected:	02.18.2020 14:30	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**222**	49.7	mg/kg	02.21.2020 13:49		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.22.2020 03:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.22.2020 03:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.22.2020 03:40	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.22.2020 03:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.22.2020 03:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	02.22.2020 03:40	
o-Terphenyl	84-15-1	110	%	70-135	02.22.2020 03:40	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW28**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-004	Date Collected:	02.18.2020 14:30	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.21.2020 16:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 16:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.21.2020 16:06	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.21.2020 16:06	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW29**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-005	Date Collected:	02.18.2020 14:50	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**464**	49.8	mg/kg	02.21.2020 13:55		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 03:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 03:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 03:40	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 03:40	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 03:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 03:40	
o-Terphenyl	84-15-1	113	%	70-135	02.22.2020 03:40	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW29**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-005	Date Collected:	02.18.2020 14:50	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1
Toluene	108-88-3	<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1
Ethylbenzene	100-41-4	<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1
m,p-Xylenes	179601-23-1	<0.0000398	0.0000398	mg/kg	02.21.2020 16:26	U	1
o-Xylene	95-47-6	<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1
Total Xylenes	1330-20-7	<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1
Total BTEX		<0.0000199	0.0000199	mg/kg	02.21.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.21.2020 16:26	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.21.2020 16:26	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW32**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-006	Date Collected:	02.19.2020 09:40	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**194**	9.96	mg/kg	02.21.2020 14:01		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.22.2020 04:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.22.2020 04:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.22.2020 04:00	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.22.2020 04:00	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.22.2020 04:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 04:00	
o-Terphenyl	84-15-1	111	%	70-135	02.22.2020 04:00	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW32**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-006	Date Collected:	02.19.2020 09:40	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.21.2020 16:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 16:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 16:47	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 16:47	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW30**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-007	Date Collected:	02.19.2020 11:20	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**523**	49.8	mg/kg	02.21.2020 14:07		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 04:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 04:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 04:00	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 04:00	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 04:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.22.2020 04:00	
o-Terphenyl	84-15-1	109	%	70-135	02.22.2020 04:00	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW30**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-007	Date Collected:	02.19.2020 11:20	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.21.2020 17:07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.21.2020 17:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.21.2020 17:07	
1,4-Difluorobenzene	540-36-3	106	%	70-130	02.21.2020 17:07	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW31**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-008	Date Collected:	02.19.2020 11:50	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 07:30	Basis:	Wet Weight
Seq Number:	3117377				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**36.0**	9.88	mg/kg	02.21.2020 14:40		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.22.2020 04:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.22.2020 04:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.22.2020 04:19	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.22.2020 04:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.22.2020 04:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	02.22.2020 04:19	
o-Terphenyl	84-15-1	102	%	70-135	02.22.2020 04:19	

Certificate of Analytical Results 653208

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW31**	Matrix:	Soil	Date Received:	02.20.2020 16:28
Lab Sample Id:	653208-008	Date Collected:	02.19.2020 11:50	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.21.2020 17:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 17:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 17:28	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 17:28	

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

QC Summary 653208

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117377 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697183-1-BLK — LCS Sample Id: 7697183-1-BKS — LCSD Sample Id: 7697183-1-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	265	106	266	106	90-110	0	20	mg/kg	02.21.2020 09:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117377 — Matrix: Soil — Date Prep: 02.21.2020
Parent Sample Id: 653189-041 — MS Sample Id: 653189-041 S — MSD Sample Id: 653189-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.3	200	220	104	227	108	90-110	3	20	mg/kg	02.21.2020 09:42	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117377 — Matrix: Soil — Date Prep: 02.21.2020
Parent Sample Id: 653208-002 — MS Sample Id: 653208-002 S — MSD Sample Id: 653208-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	407	200	621	107	626	110	90-110	1	20	mg/kg	02.21.2020 13:31	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117404 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697315-1-BLK — LCS Sample Id: 7697315-1-BKS — LCSD Sample Id: 7697315-1-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	831	83	802	80	70-135	4	35	mg/kg	02.22.2020 02:22	
Diesel Range Organics (DRO)	<50.0	1000	944	94	904	90	70-135	4	35	mg/kg	02.22.2020 02:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		113		105		70-135	%	02.22.2020 02:22
o-Terphenyl	107		120		114		70-135	%	02.22.2020 02:22

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117404 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697315-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.22.2020 02:22	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 653208

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117404 | Matrix: Soil | Date Prep: 02.21.2020
Parent Sample Id: 653208-001 | MS Sample Id: 653208-001 S | MSD Sample Id: 653208-001 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)	<50.3	1010	984	97	897	89	70-135	9	35	mg/kg	02.22.2020 03:01	
Diesel Range Organics (DRO)	<50.3	1010	1110	110	1020	101	70-135	8	35	mg/kg	02.22.2020 03:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		117		70-135	%	02.22.2020 03:01
o-Terphenyl	130		122		70-135	%	02.22.2020 03:01

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117363 | Matrix: Solid | Date Prep: 02.20.2020
MB Sample Id: 7697168-1-BLK | LCS Sample Id: 7697168-1-BKS | LCSD Sample Id: 7697168-1-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	0.104	104	0.0983	98	70-130	6	35	mg/kg	02.21.2020 08:57	
Toluene	<0.00200	0.100	0.0991	99	0.0944	94	70-130	5	35	mg/kg	02.21.2020 08:57	
Ethylbenzene	<0.00200	0.100	0.0938	94	0.0901	90	71-129	4	35	mg/kg	02.21.2020 08:57	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.185	93	70-135	4	35	mg/kg	02.21.2020 08:57	
o-Xylene	<0.00200	0.100	0.0975	98	0.0933	93	71-133	4	35	mg/kg	02.21.2020 08:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		104		70-130	%	02.21.2020 08:57
4-Bromofluorobenzene	94		91		93		70-130	%	02.21.2020 08:57

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117363 | Matrix: Soil | Date Prep: 02.20.2020
Parent Sample Id: 653189-041 | MS Sample Id: 653189-041 S | MSD Sample Id: 653189-041 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	0.0982	98	0.0994	100	70-130	1	35	mg/kg	02.21.2020 09:38	
Toluene	<0.00200	0.0998	0.0904	91	0.0910	91	70-130	1	35	mg/kg	02.21.2020 09:38	
Ethylbenzene	<0.00200	0.0998	0.0823	82	0.0832	83	71-129	1	35	mg/kg	02.21.2020 09:38	
m,p-Xylenes	<0.00399	0.200	0.166	83	0.169	85	70-135	2	35	mg/kg	02.21.2020 09:38	
o-Xylene	<0.00200	0.0998	0.0843	84	0.0851	85	71-133	1	35	mg/kg	02.21.2020 09:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	02.21.2020 09:38
4-Bromofluorobenzene	93		92		70-130	%	02.21.2020 09:38

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 670 of 1252

Chain of Custody

Work Order No: 453208

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com; cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.8	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	8	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
SW 21	S	2/18/2020	11:05	0 - 2	1	X	X	X	COMPOSITE
SW 26	S	2/18/2020	11:50	0 - 2	1	X	X	X	COMPOSITE
SW 27	S	2/18/2020	12:24	0 - 2	1	X	X	X	COMPOSITE
SW 28	S	2/18/2020	14:30	0 - 2	1	X	X	X	COMPOSITE
SW 29	S	2/18/2020	14:50	0 - 2	1	X	X	X	COMPOSITE
SW 32	S	2/19/2020	9:40	0 - 2	1	X	X	X	COMPOSITE
SW 30	S	2/19/2020	11:20	0 - 2	1	X	X	X	COMPOSITE
SW 31	S	2/19/2020	11:50	0 - 2	1	X	X	X	COMPOSITE

Work Order Notes

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

ANALYSIS REQUEST

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 Tl 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 Tl 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 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
CHRIS AGBOR		2/20/20 14:25	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 26 of 26
Released to Imaging: 4/14/2026 8:09:55 AM

Analytical Report 653209

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #001

012919001

02.24.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

02.24.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **653209**
Remuda Basin #001
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 XENCO Report Number(s) 653209. 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 XENCO Laboratories. 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. 653209 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

John Builes
Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW33	S	02.19.2020 13:05	0 - 2 ft	653209-001
SW34	S	02.19.2020 13:30	0 - 2 ft	653209-002
SW35	S	02.19.2020 14:00	0 - 2 ft	653209-003
FS13	S	02.19.2020 14:45	2 ft	653209-004
FS14	S	02.19.2020 14:59	2 ft	653209-005
FS15	S	02.19.2020 15:18	2 ft	653209-006
FS16	S	02.19.2020 15:35	2 ft	653209-007
FS17	S	02.19.2020 15:50	2 ft	653209-008
SW36	S	02.19.2020 16:10	0 - 2 ft	653209-009
SW37	S	02.19.2020 16:30	0 - 2 ft	653209-010
SW38	S	02.19.2020 16:45	0 - 2 ft	653209-011
SW39	S	02.19.2020 16:59	0 - 2 ft	653209-012
FS18	S	02.19.2020 14:34	2 ft	653209-013
SW40	S	02.19.2020 14:45	0 - 2 ft	653209-014
SW41	S	02.19.2020 14:58	0 - 2 ft	653209-015

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #001

Project ID: *012919001*
Work Order Number(s): *653209*

Report Date: *02.24.2020*
Date Received: *02.20.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3117363 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3117364 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 653209

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 02.20.2020 16:31
Report Date: 02.24.2020 17:28
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	653209-001		653209-002		653209-003		653209-004		653209-005		653209-006	
	Field Id:	SW33		SW34		SW35		FS13		FS14		FS15	
	Depth:	0-2 ft		0-2 ft		0-2 ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	02.19.2020 13:05		02.19.2020 13:30		02.19.2020 14:00		02.19.2020 14:45		02.19.2020 14:59		02.19.2020 15:18	
BTEX by EPA 8021B	***Extracted:***	02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03	
	Analyzed:	02.21.2020 20:48		02.21.2020 21:09		02.21.2020 21:29		02.21.2020 21:49		02.21.2020 22:10		02.21.2020 22:30	
	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	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
Toluene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
Ethylbenzene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
m,p-Xylenes		<0.00404	0.00404	<0.00402	0.00402	<0.00399	0.00399	<0.00403	0.00403	<0.00403	0.00403	<0.00397	0.00397
o-Xylene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
Total Xylenes		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
Total BTEX		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198
Chloride by EPA 300	***Extracted:***	02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30	
	Analyzed:	02.21.2020 15:33		02.21.2020 15:50		02.21.2020 15:55		02.21.2020 16:01		02.21.2020 16:07		02.21.2020 16:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		133	9.94	82.9	9.98	82.6	50.1	864	50.5	1680	49.9	1340	50.4
TPH by SW8015 Mod	***Extracted:***	02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15	
	Analyzed:	02.22.2020 04:19		02.22.2020 04:39		02.22.2020 04:58		02.22.2020 04:58		02.22.2020 05:17		02.22.2020 05:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.0	50.0	<49.8	49.8
Total GRO-DRO		<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.0	50.0	<49.8	49.8
Total TPH		<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.3	50.3	<50.0	50.0	<49.8	49.8

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

John Builes
Project Manager

Certificate of Analysis Summary 653209

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 02.20.2020 16:31
Report Date: 02.24.2020 17:28
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	653209-007		653209-008		653209-009		653209-010		653209-011		653209-012	
	Field Id:	FS16		FS17		SW36		SW37		SW38		SW39	
	Depth:	2- ft		2- ft		0-2 ft		0-2 ft		0-2 ft		0-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	02.19.2020 15:35		02.19.2020 15:50		02.19.2020 16:10		02.19.2020 16:30		02.19.2020 16:45		02.19.2020 16:59	
BTEX by EPA 8021B	***Extracted:***	02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.21.2020 13:03		02.20.2020 20:00	
	Analyzed:	02.21.2020 22:51		02.21.2020 23:11		02.21.2020 23:31		02.21.2020 23:52		02.22.2020 00:53		02.21.2020 13:43	
	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	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400	<0.00401	0.00401	<0.00398	0.00398	<0.00401	0.00401	<0.00397	0.00397	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30	
	Analyzed:	02.21.2020 16:35		02.21.2020 16:41		02.21.2020 16:46		02.21.2020 16:52		02.21.2020 16:57		02.21.2020 17:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1880	50.1	1450	49.7	1350	49.8	356	50.0	1070	49.8	946	50.1
TPH by SW8015 Mod	***Extracted:***	02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15		02.21.2020 17:15	
	Analyzed:	02.22.2020 05:37		02.22.2020 05:37		02.22.2020 05:57		02.22.2020 05:57		02.22.2020 06:16		02.22.2020 06:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3	<50.1	50.1
Total GRO-DRO		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3	<50.1	50.1
Total TPH		<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.3	50.3	<50.1	50.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

John Builes
Project Manager

Certificate of Analysis Summary 653209

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 02.20.2020 16:31
Report Date: 02.24.2020 17:28
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	653209-013		653209-014		653209-015					
	Field Id:	FS18		SW40		SW41					
	Depth:	2- ft		0-2 ft		0-2 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	02.19.2020 14:34		02.19.2020 14:45		02.19.2020 14:58					
BTEX by EPA 8021B	***Extracted:***	02.20.2020 20:00		02.20.2020 20:00		02.20.2020 20:00					
	Analyzed:	02.21.2020 14:04		02.21.2020 17:48		02.21.2020 18:08					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
m,p-Xylenes		<0.00401	0.00401	<0.00403	0.00403	<0.00399	0.00399				
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	02.21.2020 13:30		02.21.2020 13:30		02.21.2020 13:30					
	Analyzed:	02.21.2020 17:20		02.21.2020 17:36		02.21.2020 17:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		99.2	9.98	<9.94	9.94	102	9.96				
TPH by SW8015 Mod	***Extracted:***	02.21.2020 17:30		02.21.2020 17:30		02.21.2020 17:30					
	Analyzed:	02.22.2020 07:34		02.22.2020 07:53		02.22.2020 08:13					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8				
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8				
Total GRO-DRO		<49.8	49.8	<50.0	50.0	<49.8	49.8				
Total TPH		<49.8	49.8	<50.0	50.0	<49.8	49.8				

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John Builes
Project Manager

Certificate of Analytical Results 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW33**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-001	Date Collected:	02.19.2020 13:05	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**133**	9.94	mg/kg	02.21.2020 15:33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 04:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 04:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 04:19	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 04:19	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 04:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	02.22.2020 04:19	
o-Terphenyl	84-15-1	112	%	70-135	02.22.2020 04:19	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW33**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-001	Date Collected:	02.19.2020 13:05	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	02.21.2020 20:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.21.2020 20:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	02.21.2020 20:48	
1,4-Difluorobenzene	540-36-3	110	%	70-130	02.21.2020 20:48	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW34**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-002	Date Collected:	02.19.2020 13:30	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**82.9**	9.98	mg/kg	02.21.2020 15:50		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.22.2020 04:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.22.2020 04:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.22.2020 04:39	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.22.2020 04:39	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.22.2020 04:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.22.2020 04:39	
o-Terphenyl	84-15-1	106	%	70-135	02.22.2020 04:39	

Certificate of Analytical Results 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW34**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-002	Date Collected:	02.19.2020 13:30	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.21.2020 21:09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.21.2020 21:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 21:09	
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.21.2020 21:09	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW35**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-003	Date Collected:	02.19.2020 14:00	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**82.6**	50.1	mg/kg	02.21.2020 15:55		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.22.2020 04:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.22.2020 04:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.22.2020 04:58	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	02.22.2020 04:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.22.2020 04:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 04:58	
o-Terphenyl	84-15-1	112	%	70-135	02.22.2020 04:58	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW35**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-003	Date Collected:	02.19.2020 14:00	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.21.2020 21:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 21:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.21.2020 21:29	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 21:29	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-004	Date Collected:	02.19.2020 14:45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**864**	50.5	mg/kg	02.21.2020 16:01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.22.2020 04:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.22.2020 04:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.22.2020 04:58	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.22.2020 04:58	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.22.2020 04:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.22.2020 04:58	
o-Terphenyl	84-15-1	110	%	70-135	02.22.2020 04:58	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-004	Date Collected:	02.19.2020 14:45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.21.2020 21:49	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.21.2020 21:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	02.21.2020 21:49	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.21.2020 21:49	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-005	Date Collected:	02.19.2020 14:59	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1680**	49.9	mg/kg	02.21.2020 16:07		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.22.2020 05:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.22.2020 05:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.22.2020 05:17	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.22.2020 05:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.22.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	02.22.2020 05:17	
o-Terphenyl	84-15-1	104	%	70-135	02.22.2020 05:17	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-005	Date Collected:	02.19.2020 14:59	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.21.2020 22:10	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.21.2020 22:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.21.2020 22:10	
1,4-Difluorobenzene	540-36-3	108	%	70-130	02.21.2020 22:10	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-006	Date Collected:	02.19.2020 15:18	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1340**	50.4	mg/kg	02.21.2020 16:29		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.22.2020 05:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.22.2020 05:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.22.2020 05:17	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.22.2020 05:17	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.22.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 05:17	
o-Terphenyl	84-15-1	113	%	70-135	02.22.2020 05:17	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-006	Date Collected:	02.19.2020 15:18	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.21.2020 22:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.21.2020 22:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.21.2020 22:30	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.21.2020 22:30	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-007	Date Collected:	02.19.2020 15:35	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1880**	50.1	mg/kg	02.21.2020 16:35		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.22.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.22.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.22.2020 05:37	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.22.2020 05:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.22.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	02.22.2020 05:37	
o-Terphenyl	84-15-1	104	%	70-135	02.22.2020 05:37	

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LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-007	Date Collected:	02.19.2020 15:35	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.21.2020 22:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 22:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	02.21.2020 22:51	
1,4-Difluorobenzene	540-36-3	107	%	70-130	02.21.2020 22:51	

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Remuda Basin #001

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-008	Date Collected:	02.19.2020 15:50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1450**	49.7	mg/kg	02.21.2020 16:41		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.22.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.22.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.22.2020 05:37	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.22.2020 05:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.22.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.22.2020 05:37	
o-Terphenyl	84-15-1	111	%	70-135	02.22.2020 05:37	

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Remuda Basin #001

Sample Id:	**FS17**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-008	Date Collected:	02.19.2020 15:50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.21.2020 23:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	02.21.2020 23:11	
4-Bromofluorobenzene	460-00-4	91	%	70-130	02.21.2020 23:11	

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Remuda Basin #001

Sample Id:	**SW36**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-009	Date Collected:	02.19.2020 16:10	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1350**	49.8	mg/kg	02.21.2020 16:46		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.22.2020 05:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.22.2020 05:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.22.2020 05:57	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	02.22.2020 05:57	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.22.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	02.22.2020 05:57	
o-Terphenyl	84-15-1	105	%	70-135	02.22.2020 05:57	

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Remuda Basin #001

Sample Id:	**SW36**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-009	Date Collected:	02.19.2020 16:10	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.21.2020 23:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.21.2020 23:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.21.2020 23:31	
1,4-Difluorobenzene	540-36-3	108	%	70-130	02.21.2020 23:31	

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Remuda Basin #001

Sample Id:	**SW37**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-010	Date Collected:	02.19.2020 16:30	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**356**	50.0	mg/kg	02.21.2020 16:52		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 05:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 05:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 05:57	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 05:57	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	02.22.2020 05:57	
o-Terphenyl	84-15-1	110	%	70-135	02.22.2020 05:57	

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Remuda Basin #001

Sample Id:	**SW37**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-010	Date Collected:	02.19.2020 16:30	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.21.2020 23:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 23:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.21.2020 23:52	
1,4-Difluorobenzene	540-36-3	113	%	70-130	02.21.2020 23:52	

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Remuda Basin #001

Sample Id:	**SW38**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-011	Date Collected:	02.19.2020 16:45	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1070**	49.8	mg/kg	02.21.2020 16:57		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.22.2020 06:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.22.2020 06:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.22.2020 06:16	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.22.2020 06:16	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.22.2020 06:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	02.22.2020 06:16	
o-Terphenyl	84-15-1	119	%	70-135	02.22.2020 06:16	

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Remuda Basin #001

Sample Id:	**SW38**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-011	Date Collected:	02.19.2020 16:45	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:03	Basis:	Wet Weight
Seq Number:	3117364				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.22.2020 00:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.22.2020 00:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.22.2020 00:53	
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.22.2020 00:53	

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Remuda Basin #001

Sample Id:	**SW39**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-012	Date Collected:	02.19.2020 16:59	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**946**	50.1	mg/kg	02.21.2020 17:14		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:15	Basis:	Wet Weight
Seq Number:	3117404				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.22.2020 06:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.22.2020 06:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.22.2020 06:16	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.22.2020 06:16	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.22.2020 06:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	02.22.2020 06:16	
o-Terphenyl	84-15-1	112	%	70-135	02.22.2020 06:16	

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Remuda Basin #001

Sample Id:	**SW39**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-012	Date Collected:	02.19.2020 16:59	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.21.2020 13:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 13:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 13:43	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.21.2020 13:43	

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Remuda Basin #001

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-013	Date Collected:	02.19.2020 14:34	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**99.2**	9.98	mg/kg	02.21.2020 17:20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:30	Basis:	Wet Weight
Seq Number:	3117413				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.22.2020 07:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.22.2020 07:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.22.2020 07:34	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.22.2020 07:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.22.2020 07:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.22.2020 07:34	
o-Terphenyl	84-15-1	119	%	70-135	02.22.2020 07:34	

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Remuda Basin #001

Sample Id:	**FS18**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-013	Date Collected:	02.19.2020 14:34	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.21.2020 14:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 14:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.21.2020 14:04	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.21.2020 14:04	

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Remuda Basin #001

Sample Id:	**SW40**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-014	Date Collected:	02.19.2020 14:45	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	02.21.2020 17:36	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:30	Basis:	Wet Weight
Seq Number:	3117413				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.22.2020 07:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.22.2020 07:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.22.2020 07:53	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.22.2020 07:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.22.2020 07:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	02.22.2020 07:53	
o-Terphenyl	84-15-1	114	%	70-135	02.22.2020 07:53	

Certificate of Analytical Results 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW40**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-014	Date Collected:	02.19.2020 14:45	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.21.2020 17:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.21.2020 17:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.21.2020 17:48	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.21.2020 17:48	

Certificate of Analytical Results 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW41**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-015	Date Collected:	02.19.2020 14:58	Sample Depth:	0 - 2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.21.2020 13:30	Basis:	Wet Weight
Seq Number:	3117380				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**102**	9.96	mg/kg	02.21.2020 17:42		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	02.21.2020 17:30	Basis:	Wet Weight
Seq Number:	3117413				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.22.2020 08:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.22.2020 08:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.22.2020 08:13	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.22.2020 08:13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.22.2020 08:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.22.2020 08:13	
o-Terphenyl	84-15-1	107	%	70-135	02.22.2020 08:13	

Certificate of Analytical Results 653209

LT Environmental, Inc., Arvada, CO

Remuda Basin #001

Sample Id:	**SW41**	Matrix:	Soil	Date Received:	02.20.2020 16:31
Lab Sample Id:	653209-015	Date Collected:	02.19.2020 14:58	Sample Depth:	0 - 2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.20.2020 20:00	Basis:	Wet Weight
Seq Number:	3117363				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.21.2020 18:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.21.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.21.2020 18:08	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.21.2020 18:08	

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

QC Summary 653209

LT Environmental, Inc.

Remuda Basin #001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117380 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697199-1-BLK — LCS Sample Id: 7697199-1-BKS — LCSD Sample Id: 7697199-1-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	257	103	259	104	90-110	1	20	mg/kg	02.21.2020 15:22	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117380 — Matrix: Soil — Date Prep: 02.21.2020
Parent Sample Id: 653209-001 — MS Sample Id: 653209-001 S — MSD Sample Id: 653209-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	133	200	352	110	351	109	90-110	0	20	mg/kg	02.21.2020 15:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117380 — Matrix: Soil — Date Prep: 02.21.2020
Parent Sample Id: 653209-011 — MS Sample Id: 653209-011 S — MSD Sample Id: 653209-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1070	200	1270	100	1280	105	90-110	1	20	mg/kg	02.21.2020 17:03	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117404 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697315-1-BLK — LCS Sample Id: 7697315-1-BKS — LCSD Sample Id: 7697315-1-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	831	83	802	80	70-135	4	35	mg/kg	02.22.2020 02:22	
Diesel Range Organics (DRO)	<50.0	1000	944	94	904	90	70-135	4	35	mg/kg	02.22.2020 02:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		113		105		70-135	%	02.22.2020 02:22
o-Terphenyl	107		120		114		70-135	%	02.22.2020 02:22

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117413 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697318-1-BLK — LCS Sample Id: 7697318-1-BKS — LCSD Sample Id: 7697318-1-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	836	84	915	92	70-135	9	35	mg/kg	02.22.2020 07:14	
Diesel Range Organics (DRO)	<50.0	1000	917	92	1000	100	70-135	9	35	mg/kg	02.22.2020 07:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		111		122		70-135	%	02.22.2020 07:14
o-Terphenyl	116		113		120		70-135	%	02.22.2020 07:14

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

QC Summary 653209

LT Environmental, Inc.

Remuda Basin #001

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117404 | Matrix: Solid | Date Prep: 02.21.2020
MB Sample Id: 7697315-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.22.2020 02:22	

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117413 | Matrix: Solid | Date Prep: 02.21.2020
MB Sample Id: 7697318-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.22.2020 06:55	

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117404 | Matrix: Soil | Date Prep: 02.21.2020
Parent Sample Id: 653208-001 | MS Sample Id: 653208-001 S | MSD Sample Id: 653208-001 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)	<50.3	1010	984	97	897	89	70-135	9	35	mg/kg	02.22.2020 03:01	
Diesel Range Organics (DRO)	<50.3	1010	1110	110	1020	101	70-135	8	35	mg/kg	02.22.2020 03:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		117		70-135	%	02.22.2020 03:01
o-Terphenyl	130		122		70-135	%	02.22.2020 03:01

Analytical Method: TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117413 | Matrix: Soil | Date Prep: 02.21.2020
Parent Sample Id: 653209-013 | MS Sample Id: 653209-013 S | MSD Sample Id: 653209-013 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	963	96	858	86	70-135	12	35	mg/kg	02.22.2020 07:34	
Diesel Range Organics (DRO)	<50.2	1000	1050	105	955	96	70-135	9	35	mg/kg	02.22.2020 07:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		114		70-135	%	02.22.2020 07:34
o-Terphenyl	127		115		70-135	%	02.22.2020 07:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

QC Summary 653209

LT Environmental, Inc.

Remuda Basin #001

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3117363 — Matrix: Solid — Date Prep: 02.20.2020
MB Sample Id: 7697168-1-BLK — LCS Sample Id: 7697168-1-BKS — LCSD Sample Id: 7697168-1-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	0.104	104	0.0983	98	70-130	6	35	mg/kg	02.21.2020 08:57	
Toluene	<0.00200	0.100	0.0991	99	0.0944	94	70-130	5	35	mg/kg	02.21.2020 08:57	
Ethylbenzene	<0.00200	0.100	0.0938	94	0.0901	90	71-129	4	35	mg/kg	02.21.2020 08:57	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.185	93	70-135	4	35	mg/kg	02.21.2020 08:57	
o-Xylene	<0.00200	0.100	0.0975	98	0.0933	93	71-133	4	35	mg/kg	02.21.2020 08:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		104		70-130	%	02.21.2020 08:57
4-Bromofluorobenzene	94		91		93		70-130	%	02.21.2020 08:57

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3117364 — Matrix: Solid — Date Prep: 02.21.2020
MB Sample Id: 7697195-1-BLK — LCS Sample Id: 7697195-1-BKS — LCSD Sample Id: 7697195-1-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	0.114	114	0.105	105	70-130	8	35	mg/kg	02.21.2020 19:06	
Toluene	<0.00200	0.100	0.105	105	0.0972	97	70-130	8	35	mg/kg	02.21.2020 19:06	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0934	93	71-129	7	35	mg/kg	02.21.2020 19:06	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.183	92	70-135	6	35	mg/kg	02.21.2020 19:06	
o-Xylene	<0.00200	0.100	0.0995	100	0.0929	93	71-133	7	35	mg/kg	02.21.2020 19:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		111		109		70-130	%	02.21.2020 19:06
4-Bromofluorobenzene	92		88		88		70-130	%	02.21.2020 19:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3117363 — Matrix: Soil — Date Prep: 02.20.2020
Parent Sample Id: 653189-041 — MS Sample Id: 653189-041 S — MSD Sample Id: 653189-041 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	0.0982	98	0.0994	100	70-130	1	35	mg/kg	02.21.2020 09:38	
Toluene	<0.00200	0.0998	0.0904	91	0.0910	91	70-130	1	35	mg/kg	02.21.2020 09:38	
Ethylbenzene	<0.00200	0.0998	0.0823	82	0.0832	83	71-129	1	35	mg/kg	02.21.2020 09:38	
m,p-Xylenes	<0.00399	0.200	0.166	83	0.169	85	70-135	2	35	mg/kg	02.21.2020 09:38	
o-Xylene	<0.00200	0.0998	0.0843	84	0.0851	85	71-133	1	35	mg/kg	02.21.2020 09:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	02.21.2020 09:38
4-Bromofluorobenzene	93		92		70-130	%	02.21.2020 09:38

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

QC Summary 653209

LT Environmental, Inc.

Remuda Basin #001

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B

Seq Number: 3117364 Matrix: Soil Date Prep: 02.21.2020

Parent Sample Id: 653209-001 MS Sample Id: 653209-001 S MSD Sample Id: 653209-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.117	117	0.112	111	70-130	4	35	mg/kg	02.21.2020 19:47	
Toluene	<0.00200	0.100	0.107	107	0.102	101	70-130	5	35	mg/kg	02.21.2020 19:47	
Ethylbenzene	<0.00200	0.100	0.101	101	0.0951	94	71-129	6	35	mg/kg	02.21.2020 19:47	
m,p-Xylenes	<0.00400	0.200	0.194	97	0.183	91	70-135	6	35	mg/kg	02.21.2020 19:47	
o-Xylene	<0.00200	0.100	0.0983	98	0.0930	92	71-133	6	35	mg/kg	02.21.2020 19:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		110		70-130	%	02.21.2020 19:47
4-Bromofluorobenzene	92		92		70-130	%	02.21.2020 19:47

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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Chain of Custody

XENCO LABORATORIES
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

Work Order No: 653209

Page 1 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178 Email:	dmoir@ltenv.com; cagbor@ltenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.8	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	15	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes: TAT starts the day recevied by the lab, if received by 4:30pm — Sample Comments
SW 33	S	2/19/2020	13:05	0 - 2	1	X	X	X	COMPOSITE
SW 34	S	2/19/2020	13:30	0 - 2	1	X	X	X	COMPOSITE
SW 35	S	2/19/2020	14:00	0 - 2	1	X	X	X	COMPOSITE
FS 13	S	2/19/2020	14:45	2	1	X	X	X	COMPOSITE
FS 14	S	2/19/2020	14:59	2	1	X	X	X	COMPOSITE
FS 15	S	2/19/2020	15:18	2	1	X	X	X	COMPOSITE
FS 16	S	2/19/2020	15:35	2	1	X	X	X	COMPOSITE
FS 17	S	2/19/2020	15:50	2	1	X	X	X	COMPOSITE
SW 36	S	2/19/2020	16:10	0 -2	1	X	X	X	COMPOSITE
SW 37	S	2/19/2020	16:30	0 - 2	1	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 Tl 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 Tl 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 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
CHRIS AGBOR		4/20/2020 16:31	2		
			4		
			6		

Revised Date 05/14/18 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 43 of 44
Released to Imaging: 4/14/2026 8:09:55 AM

Page 714 of 1252

Chain of Custody

XENCO LABORATORIES
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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Work Order No: 653209

Page 2 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178 Email:		dmoir@ltenv.com; cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine	☐
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

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

See pg 1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments
SW 38	S	2/19/2020	16:45	0 - 2	1	X	X	X	COMPOSITE
SW 39	S	2/19/2020	16:59	0 - 2	1	X	X	X	COMPOSITE
FS 18	S	2/20/2020	14:34	2	1	X	X	X	COMPOSITE
SW 40	S	2/20/2020	14:45	0 - 2	1	X	X	X	COMPOSITE
SW 41	S	2/20/2020	14:58	0 - 2	1	X	X	X	COMPOSITE

ANALYSIS REQUEST

Work Order Notes

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

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
RIS AGBOR		2/20/20 16:31	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 44 of 44
Released to Imaging: 4/14/2026 8:09:55 AM

Analytical Report 653581

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

26-FEB-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

26-FEB-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **653581**
Remuda Basin #1
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 XENCO Report Number(s) 653581. 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 XENCO Laboratories. 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. 653581 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS19	S	02-21-20 10:50	2 ft	653581-001
FS20	S	02-21-20 11:05	2 ft	653581-002
FS24	S	02-21-20 12:57	2 ft	653581-003
SW44	S	02-21-20 13:15	0 - 2 ft	653581-004
SW45	S	02-21-20 13:25	0 - 2 ft	653581-005
SW42	S	02-21-20 12:55	0 - 2 ft	653581-006
SW46	S	02-21-20 13:45	0 - 2 ft	653581-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *653581*

Report Date: *26-FEB-20*
Date Received: *02/25/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 653581

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Feb-25-20 10:44 am
Report Date: 26-FEB-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	653581-001		653581-002		653581-003		653581-004		653581-005		653581-006	
	Field Id:	FS19		FS20		FS24		SW44		SW45		SW42	
	Depth:	2- ft		2- ft		2- ft		0-2 ft		0-2 ft		0-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-21-20 10:50		Feb-21-20 11:05		Feb-21-20 12:57		Feb-21-20 13:15		Feb-21-20 13:25		Feb-21-20 12:55	
Chloride by EPA 300	***Extracted:***	Feb-25-20 12:00		Feb-25-20 12:00		Feb-25-20 12:00		Feb-25-20 12:00		Feb-25-20 12:12		Feb-25-20 12:12	
	Analyzed:	Feb-25-20 13:04		Feb-25-20 13:11		Feb-25-20 13:18		Feb-25-20 13:24		Feb-25-20 14:05		Feb-25-20 14:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		141	10.0	428	49.9	696	49.7	54.1	10.0	154	9.98	15.3	10.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 653581

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Feb-25-20 10:44 am
Report Date: 26-FEB-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	653581-007					
	Field Id:	SW46					
	Depth:	0-2 ft					
	Matrix:	SOIL					
	Sampled:	Feb-21-20 13:45					
Chloride by EPA 300	***Extracted:***	Feb-25-20 12:12					
	Analyzed:	Feb-25-20 14:32					
	Units/RL:	mg/kg	RL				
Chloride		17.6	9.94				

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Jessica Kramer
Project Assistant

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS19**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-001	Date Collected:	02.21.20 10.50	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.00	Basis:	Wet Weight
Seq Number:	3117626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**141**	10.0	mg/kg	02.25.20 13.04		1

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-002	Date Collected:	02.21.20 11.05	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.00	Basis:	Wet Weight
Seq Number:	3117626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**428**	49.9	mg/kg	02.25.20 13.11		5

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS24**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-003	Date Collected:	02.21.20 12.57	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.00	Basis:	Wet Weight
Seq Number:	3117626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**696**	49.7	mg/kg	02.25.20 13.18		5

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW44**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-004	Date Collected:	02.21.20 13.15	Sample Depth:	0 - 2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.00	Basis:	Wet Weight
Seq Number:	3117626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**54.1**	10.0	mg/kg	02.25.20 13.24		1

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW45**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-005	Date Collected:	02.21.20 13.25	Sample Depth:	0 - 2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.12	Basis:	Wet Weight
Seq Number:	3117676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**154**	9.98	mg/kg	02.25.20 14.05		1

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW42**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-006	Date Collected:	02.21.20 12.55	Sample Depth:	0 - 2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.12	Basis:	Wet Weight
Seq Number:	3117676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.3**	10.1	mg/kg	02.25.20 14.25		1

Certificate of Analytical Results 653581

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW46**	Matrix:	Soil	Date Received:	02.25.20 10.44
Lab Sample Id:	653581-007	Date Collected:	02.21.20 13.45	Sample Depth:	0 - 2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.25.20 12.12	Basis:	Wet Weight
Seq Number:	3117676				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.6**	9.94	mg/kg	02.25.20 14.32		1

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.

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

QC Summary 653581

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117626 — Matrix: Solid — Date Prep: 02.25.20
MB Sample Id: 7697397-1-BLK — LCS Sample Id: 7697397-1-BKS — LCSD Sample Id: 7697397-1-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	253	101	90-110	0	20	mg/kg	02.25.20 10:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117676 — Matrix: Solid — Date Prep: 02.25.20
MB Sample Id: 7697408-1-BLK — LCS Sample Id: 7697408-1-BKS — LCSD Sample Id: 7697408-1-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	250	100	256	102	90-110	2	20	mg/kg	02.25.20 13:51	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117626 — Matrix: Soil — Date Prep: 02.25.20
Parent Sample Id: 653536-001 — MS Sample Id: 653536-001 S — MSD Sample Id: 653536-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6970	200	7010	20	6850	0	90-110	2	20	mg/kg	02.25.20 10:50	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117626 — Matrix: Soil — Date Prep: 02.25.20
Parent Sample Id: 653536-011 — MS Sample Id: 653536-011 S — MSD Sample Id: 653536-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1150	200	1420	135	1440	145	90-110	1	20	mg/kg	02.25.20 12:09	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117676 — Matrix: Soil — Date Prep: 02.25.20
Parent Sample Id: 653581-005 — MS Sample Id: 653581-005 S — MSD Sample Id: 653581-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	154	200	373	110	370	107	90-110	1	20	mg/kg	02.25.20 14:12	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 653581

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Seq Number: 3117676 Matrix: Soil Date Prep: 02.25.20

Parent Sample Id: 653662-003 MS Sample Id: 653662-003 S MSD Sample Id: 653662-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	31.4	199	229	99	218	94	90-110	5	20	mg/kg	02.25.20 18:18	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Page 731 of 1252

Chain of Custody

Work Order No: 653981

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178 Email:		dmoir@ltenv.com; cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDO ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	3.6	Thermometer ID		
Received Intact:	(Yes) No	T-NM-001		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	7	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
FS 19	S	2/21/2020	10:50	2	1	X	X	X	COMPOSITE
FS 20	S	2/21/2020	11:05	2	1	X	X	X	COMPOSITE
FS 24	S	2/21/2020	12:57	2	1	X	X	X	COMPOSITE
SW 44	S	2/21/2020	13:15	0 - 2	1	X	X	X	COMPOSITE
SW 45	S	2/21/2020	13:25	0 - 2	1	X	X	X	COMPOSITE
SW 42	S	2/21/2020	12:55	0 - 2	1	X	X	X	COMPOSITE
SW 46	S	2/21/2020	13:45	0 - 2	1	X	X	X	COMPOSITE

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
1 CHRIS AGBOR		4/25/20 1044	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 17 of 18
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.25.2020 10.44.00 AM

Work Order #: 653581

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)?	3.6
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.25.2020

Checklist reviewed by: Jessica Kramer Date: 02.26.2020

Jessica Kramer

Analytical Report 654176

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

03-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

03-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **654176**
Remuda Basin #1
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 XENCO Report Number(s) 654176. 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 XENCO Laboratories. 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. 654176 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH12	S	02-27-20 11:05	6 ft	654176-001
PH12A	S	02-27-20 16:20	20 ft	654176-002
SW47	S	02-28-20 14:10	0 - 4 ft	654176-003
SW48	S	02-28-20 14:30	0 - 4 ft	654176-004
SW49	S	02-28-20 13:05	0 - 4 ft	654176-005

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *654176*

Report Date: *03-MAR-20*
Date Received: *02/28/2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 654176

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 04:20 pm
Report Date: 03-MAR-20
Project Manager: Jessica Kramer

Analysis Requested												
	Lab Id:	654176-001		654176-002		654176-003		654176-004		654176-005		
	Field Id:	PH12		PH12A		SW47		SW48		SW49		
	Depth:	6- ft		20- ft		0-4 ft		0-4 ft		0-4 ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Feb-27-20 11:05		Feb-27-20 16:20		Feb-28-20 14:10		Feb-28-20 14:30		Feb-28-20 13:05		
Chloride by EPA 300	***Extracted:***	Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		Mar-02-20 08:00		
	Analyzed:	Mar-02-20 15:37		Mar-02-20 15:43		Mar-02-20 15:50		Mar-02-20 15:56		Mar-02-20 16:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		1480	50.4	43.4	9.92	400	49.9	524	49.8	81.7	50.3	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH12**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-001	Date Collected:	02.27.20 11.05	Sample Depth:	6 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1480**	50.4	mg/kg	03.02.20 15.37		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH12A**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-002	Date Collected:	02.27.20 16.20	Sample Depth:	20 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**43.4**	9.92	mg/kg	03.02.20 15.43		1

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW47**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-003	Date Collected:	02.28.20 14.10	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**400**	49.9	mg/kg	03.02.20 15.50		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW48**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-004	Date Collected:	02.28.20 14.30	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**524**	49.8	mg/kg	03.02.20 15.56		5

Certificate of Analytical Results 654176

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW49**	Matrix:	Soil	Date Received:	02.28.20 16.20
Lab Sample Id:	654176-005	Date Collected:	02.28.20 13.05	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.02.20 08.00	Basis:	Wet Weight
Seq Number:	3118297				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**81.7**	50.3	mg/kg	03.02.20 16.02		5

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.

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

QC Summary 654176

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Solid Date Prep: 03.02.20
MB Sample Id: 7697772-1-BLK LCS Sample Id: 7697772-1-BKS LCSD Sample Id: 7697772-1-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	249	100	252	101	90-110	1	20	mg/kg	03.02.20 11:56	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Soil Date Prep: 03.02.20
Parent Sample Id: 654139-001 MS Sample Id: 654139-001 S MSD Sample Id: 654139-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.97	200	219	106	219	106	90-110	0	20	mg/kg	03.02.20 13:47	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118297 Matrix: Soil Date Prep: 03.02.20
Parent Sample Id: 654139-011 MS Sample Id: 654139-011 S MSD Sample Id: 654139-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.5	199	220	104	219	104	90-110	0	20	mg/kg	03.02.20 15:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 745 of 1252

Chain of Custody

Work Order No: 654176

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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178 Email:		drmoir@ltenv.com; cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.0	Thermometer ID		
Received Intact:	(Yes) No	T-NM007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	5	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
PH 12	S	2/27/2020	11:05	6	1			X
PH 12A	S	2/27/2020	16:20	20	1			X
SW 47	S	2/28/2020	14:10	0 - 4	1			X
SW 48	S	2/28/2020	14:30	0 - 4	1			X
SW 49	S	2/28/2020	13:05	0 - 4	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments
COMPOSITE
COMPOSITE
COMPOSITE
COMPOSITE
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 Tl 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 Tl 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 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
CHRIS AGBOR		2/28/20 1020	2		
			4		
			6		

Revised Date 05141B Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 13 of 14

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02/28/2020 04:20:00 PM

Work Order #: 654176

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)?	3
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02/28/2020

Checklist reviewed by: Jessica Kramer Date: 02/28/2020

Jessica Kramer

Analytical Report 654870

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

09-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

09-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **654870**
Remuda Basin #1
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 XENCO Report Number(s) 654870. 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 XENCO Laboratories. 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. 654870 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW 50	S	03-05-20 12:50	0 - 4 ft	654870-001
SW 51	S	03-05-20 13:15	0 - 4 ft	654870-002
SW 52	S	03-05-20 13:31	0 - 4 ft	654870-003
SW 53	S	03-05-20 13:45	0 - 4 ft	654870-004
SW 54	S	03-05-20 14:00	0 - 4 ft	654870-005
SW 55	S	03-05-20 14:20	0 - 4 ft	654870-006
SW 56	S	03-06-20 11:10	0 - 4 ft	654870-007
SW 57	S	03-06-20 11:17	0 - 4 ft	654870-008
FS26	S	03-06-20 10:45	3 ft	654870-009
FS27	S	03-06-20 10:58	3 ft	654870-010
FS22A	S	03-06-20 12:50	4 ft	654870-011
FS23A	S	03-06-20 13:10	4 ft	654870-012

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *654870*

Report Date: *09-MAR-20*
Date Received: *03/06/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 654870

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-06-20 02:35 pm
Report Date: 09-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654870-001		654870-002		654870-003		654870-004		654870-005		654870-006	
	Field Id:	SW 50		SW 51		SW 52		SW 53		SW 54		SW 55	
	Depth:	0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-05-20 12:50		Mar-05-20 13:15		Mar-05-20 13:31		Mar-05-20 13:45		Mar-05-20 14:00		Mar-05-20 14:20	
Chloride by EPA 300	***Extracted:***	Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00	
	Analyzed:	Mar-06-20 19:53		Mar-06-20 19:59		Mar-06-20 20:04		Mar-06-20 20:10		Mar-06-20 20:15		Mar-06-20 20:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		216	9.94	368	10.1	176	10.1	442	10.0	153	9.98	527	10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 654870

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-06-20 02:35 pm
Report Date: 09-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654870-007		654870-008		654870-009		654870-010		654870-011		654870-012	
	Field Id:	SW 56		SW 57		FS26		FS27		FS22A		FS23A	
	Depth:	0-4 ft		0-4 ft		3- ft		3- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-06-20 11:10		Mar-06-20 11:17		Mar-06-20 10:45		Mar-06-20 10:58		Mar-06-20 12:50		Mar-06-20 13:10	
Chloride by EPA 300	***Extracted:***	Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 15:00		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30	
	Analyzed:	Mar-06-20 20:26		Mar-06-20 20:32		Mar-06-20 20:38		Mar-06-20 21:11		Mar-06-20 21:29		Mar-06-20 21:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		196	10.1	459	10.0	981	9.98	288	9.88	170	9.98	381	10.0

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The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 50**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-001	Date Collected:	03.05.20 12.50	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	9.94	mg/kg	03.06.20 19.53		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 51**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-002	Date Collected:	03.05.20 13.15	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**368**	10.1	mg/kg	03.06.20 19.59		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 52**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-003	Date Collected:	03.05.20 13.31	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**176**	10.1	mg/kg	03.06.20 20.04		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 53**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-004	Date Collected:	03.05.20 13.45	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**442**	10.0	mg/kg	03.06.20 20.10		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 54**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-005	Date Collected:	03.05.20 14.00	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**153**	9.98	mg/kg	03.06.20 20.15		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 55**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-006	Date Collected:	03.05.20 14.20	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**527**	10.0	mg/kg	03.06.20 20.21		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 56**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-007	Date Collected:	03.06.20 11.10	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**196**	10.1	mg/kg	03.06.20 20.26		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 57**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-008	Date Collected:	03.06.20 11.17	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**459**	10.0	mg/kg	03.06.20 20.32		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS26**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-009	Date Collected:	03.06.20 10.45	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 15.00	Basis:	Wet Weight
Seq Number:	3118881				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**981**	9.98	mg/kg	03.06.20 20.38		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS27**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-010	Date Collected:	03.06.20 10.58	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**288**	9.88	mg/kg	03.06.20 21.11		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS22A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-011	Date Collected:	03.06.20 12.50	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**170**	9.98	mg/kg	03.06.20 21.29		1

Certificate of Analytical Results 654870

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS23A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654870-012	Date Collected:	03.06.20 13.10	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**381**	10.0	mg/kg	03.06.20 21.41		1

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.

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

QC Summary 654870

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118881 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698304-1-BLK — LCS Sample Id: 7698304-1-BKS — LCSD Sample Id: 7698304-1-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	263	105	265	106	90-110	1	20	mg/kg	03.06.20 17:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118882 — Matrix: Solid — Date Prep: 03.06.20
MB Sample Id: 7698324-1-BLK — LCS Sample Id: 7698324-1-BKS — LCSD Sample Id: 7698324-1-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	265	106	266	106	90-110	0	20	mg/kg	03.06.20 21:00	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118881 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654823-012 — MS Sample Id: 654823-012 S — MSD Sample Id: 654823-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	255	199	465	106	466	106	90-110	0	20	mg/kg	03.06.20 19:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118881 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654846-003 — MS Sample Id: 654846-003 S — MSD Sample Id: 654846-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	145	202	373	113	367	110	90-110	2	20	mg/kg	03.06.20 18:13	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118882 — Matrix: Soil — Date Prep: 03.06.20
Parent Sample Id: 654834-002 — MS Sample Id: 654834-002 S — MSD Sample Id: 654834-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	195	200	375	90	413	109	90-110	10	20	mg/kg	03.06.20 23:56	

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

Final 1.000

QC Summary 654870

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Seq Number: 3118882 Matrix: Soil Date Prep: 03.06.20

Parent Sample Id: 654870-010 MS Sample Id: 654870-010 S MSD Sample Id: 654870-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	288	198	498	106	499	107	90-110	0	20	mg/kg	03.06.20 21:17	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

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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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Work Order No: 454870

Page 1 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine	☐
P.O. Number:		Rush:	3 DAYS
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	2-8	Temp Blank:	Yes / No
Received Intact:	Yes No	Wet Ice:	Yes No
Cooler Custody Seals:	Yes No N/A	Thermometer ID	T-NM-007
Sample Custody Seals:	Yes No N/A	Correction Factor:	-0.2
		Total Containers:	12

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW 50	S	3/5/2020	12:50	0 - 4	1			X
SW 51	S	3/5/2020	13:15	0 - 4	1			X
SW 52	S	3/5/2020	13:31	0 - 4	1			X
SW 53	S	3/5/2020	13:45	0 - 4	1			X
SW 54	S	3/5/2020	14:00	0 - 4	1			X
SW 55	S	3/5/2020	14:20	0 - 4	1			X
SW 56	S	3/6/2020	11:10	0 - 4	1			X
SW 57	S	3/6/2020	11:17	0 - 4	1			X
FS 26	S	3/6/2020	10:45	3	1			X
FS 27	S	3/6/2020	10:58	3	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		3/6/20 14:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

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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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Work Order No: 05 4870

Page 2 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	01291900 1	Routine	☐
P.O. Number:		Rush:	3 DAYS
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):		Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes		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	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Work Order Notes
FS 22A	S	3/6/2020	12:50	4	1			X	COMPOSITE
FS 23A	S	3/6/2020	13:10	4	1			X	COMPOSITE

ANALYSIS REQUEST

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

Sample Comments

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/6/20 1435	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.06.2020 02.35.00 PM

Work Order #: 654870

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)?	2.8
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.06.2020

Checklist reviewed by: Jessica Kramer Date: 03.09.2020

Jessica Kramer

Analytical Report 654871

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

09-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

09-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **654871**
Remuda Basin #1
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 XENCO Report Number(s) 654871. 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 XENCO Laboratories. 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. 654871 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS 13A	S	03-05-20 10:05	4 ft	654871-001
FS 14A	S	03-05-20 10:15	4 ft	654871-002
FS 15A	S	03-05-20 10:35	4 ft	654871-003
FS 16A	S	03-05-20 10:55	4 ft	654871-004
FS 17A	S	03-05-20 10:45	4 ft	654871-005
FS 25	S	03-05-20 10:25	4 ft	654871-006
FS 22A	S	03-06-20 10:45	4 ft	Not Analyzed
FS 23A	S	03-06-20 10:58	4 ft	Not Analyzed

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID:
Work Order Number(s): *654871*

Report Date: *09-MAR-20*
Date Received: *03/06/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 654871

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id:
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-06-20 02:35 pm
Report Date: 09-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654871-001		654871-002		654871-003		654871-004		654871-005		654871-006	
	Field Id:	FS 13A		FS 14A		FS 15A		FS 16A		FS 17A		FS 25	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-05-20 10:05		Mar-05-20 10:15		Mar-05-20 10:35		Mar-05-20 10:55		Mar-05-20 10:45		Mar-05-20 10:25	
Chloride by EPA 300	***Extracted:***	Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30		Mar-06-20 17:30	
	Analyzed:	Mar-06-20 21:54		Mar-06-20 22:06		Mar-06-20 22:18		Mar-06-20 22:55		Mar-06-20 23:07		Mar-06-20 23:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		32.2	10.0	143	10.0	249	10.1	262	10.1	344	10.1	334	10.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 13A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-001	Date Collected:	03.05.20 10.05	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.2**	10.0	mg/kg	03.06.20 21.54		1

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 14A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-002	Date Collected:	03.05.20 10.15	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**143**	10.0	mg/kg	03.06.20 22.06		1

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 15A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-003	Date Collected:	03.05.20 10.35	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**249**	10.1	mg/kg	03.06.20 22.18		1

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 16A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-004	Date Collected:	03.05.20 10.55	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	10.1	mg/kg	03.06.20 22.55		1

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 17A**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-005	Date Collected:	03.05.20 10.45	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**344**	10.1	mg/kg	03.06.20 23.07		1

Certificate of Analytical Results 654871

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 25**	Matrix:	Soil	Date Received:	03.06.20 14.35
Lab Sample Id:	654871-006	Date Collected:	03.05.20 10.25	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.06.20 17.30	Basis:	Wet Weight
Seq Number:	3118882				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**334**	10.1	mg/kg	03.06.20 23.19		1

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.

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

QC Summary 654871

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118882 Matrix: Solid Date Prep: 03.06.20
MB Sample Id: 7698324-1-BLK LCS Sample Id: 7698324-1-BKS LCSD Sample Id: 7698324-1-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	265	106	266	106	90-110	0	20	mg/kg	03.06.20 21:00	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118882 Matrix: Soil Date Prep: 03.06.20
Parent Sample Id: 654834-002 MS Sample Id: 654834-002 S MSD Sample Id: 654834-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	195	200	375	90	413	109	90-110	10	20	mg/kg	03.06.20 23:56	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3118882 Matrix: Soil Date Prep: 03.06.20
Parent Sample Id: 654870-010 MS Sample Id: 654870-010 S MSD Sample Id: 654870-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	288	198	498	106	499	107	90-110	0	20	mg/kg	03.06.20 21:17	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Page 784 of 1252

Chain of Custody

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

Work Order No: 654871

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:		Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	2.8	Thermometer ID	T-NM-007	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	8	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS 13A	S	3/5/2020	10:05	4	1			X	COMPOSITE
FS 14A	S	3/5/2020	10:15	4	1			X	COMPOSITE
FS 15A	S	3/5/2020	10:35	4	1			X	COMPOSITE
FS 16A	S	3/5/2020	10:55	4	1			X	COMPOSITE
FS 17A	S	3/5/2020	10:45	4	1			X	COMPOSITE
FS 25	S	3/5/2020	10:25	4	1			X	COMPOSITE
~~FS 22A~~	~~S~~	~~3/6/2020~~	~~10:45~~	~~4~~	~~1~~			~~X~~	COMPOSITE
~~FS 23A~~	~~S~~	~~3/6/2020~~	~~10:58~~	~~4~~	~~1~~			~~X~~	COMPOSITE

Work Order Notes

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

ANALYSIS REQUEST

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 Tl 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 Tl 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 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
		3/6/20 14:35	2		
			4		

Revised Date 0418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 14 of 15

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.06.2020 02.35.00 PM

Work Order #: 654871

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)?	2.8	
#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?	**Yes**	Client was made aware that samples FS 22A and FS23A were missing, they have been put on hold until found or further notice
#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**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.06.2020

Checklist reviewed by: Jessica Kramer Date: 03.09.2020

Jessica Kramer

Analytical Report 655093

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

11-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

11-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **655093**
Remuda Basin 001
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 XENCO Report Number(s) 655093. 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 XENCO Laboratories. 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. 655093 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW60	S	03-09-20 10:47	0 - 3 ft	655093-001
SW61	S	03-09-20 10:57	0 - 3 ft	655093-002
FS31	S	03-09-20 12:10	3 - 4 ft	655093-003
FS34	S	03-09-20 13:39	4 ft	655093-004
FS35	S	03-09-20 13:43	4 ft	655093-005
FS36	S	03-09-20 13:48	4 ft	655093-006
FS37	S	03-09-20 13:53	4 ft	655093-007
FS38	S	03-09-20 13:58	4 ft	655093-008
FS40	S	03-09-20 14:57	3 ft	655093-009
FS41	S	03-09-20 14:59	3 ft	655093-010
FS42	S	03-09-20 15:01	4 ft	655093-011
FS43	S	03-09-20 15:04	5 ft	655093-012

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *655093*

Report Date: *11-MAR-20*
Date Received: *03/10/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 655093

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Mar-10-20 08:45 am
Report Date: 11-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	655093-001		655093-002		655093-003		655093-004		655093-005		655093-006	
	Field Id:	SW60		SW61		FS31		FS34		FS35		FS36	
	Depth:	0-3 ft		0-3 ft		3-4 ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-20 10:47		Mar-09-20 10:57		Mar-09-20 12:10		Mar-09-20 13:39		Mar-09-20 13:43		Mar-09-20 13:48	
Chloride by EPA 300	***Extracted:***	Mar-10-20 11:22		Mar-10-20 11:22		Mar-10-20 11:22		Mar-10-20 11:22		Mar-10-20 11:22		Mar-10-20 11:24	
	Analyzed:	Mar-10-20 13:55		Mar-10-20 14:00		Mar-10-20 14:06		Mar-10-20 14:11		Mar-10-20 14:17		Mar-10-20 14:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2380	49.9	2400	49.6	415	49.8	4700	50.1	650	50.4	203	49.6

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Manager

Final 1.000

Certificate of Analysis Summary 655093

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Mar-10-20 08:45 am
Report Date: 11-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	655093-007		655093-008		655093-009		655093-010		655093-011		655093-012	
	Field Id:	FS37		FS38		FS40		FS41		FS42		FS43	
	Depth:	4- ft		4- ft		3- ft		3- ft		4- ft		5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-09-20 13:53		Mar-09-20 13:58		Mar-09-20 14:57		Mar-09-20 14:59		Mar-09-20 15:01		Mar-09-20 15:04	
Chloride by EPA 300	***Extracted:***	Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24		Mar-10-20 11:24	
	Analyzed:	Mar-10-20 15:07		Mar-10-20 15:13		Mar-10-20 15:18		Mar-10-20 15:24		Mar-10-20 15:41		Mar-10-20 15:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1160	49.8	584	49.9	576	50.1	375	50.4	550	50.1	64.8	49.9

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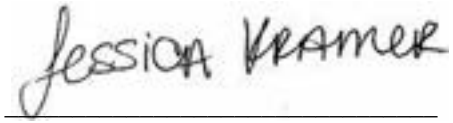
Version: 1.%



Jessica Kramer
Project Manager

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW60**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-001	Date Collected:	03.09.20 10.47	Sample Depth:	0 - 3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.22	Basis:	Wet Weight
Seq Number:	3119170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2380**	49.9	mg/kg	03.10.20 13.55		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW61**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-002	Date Collected:	03.09.20 10.57	Sample Depth:	0 - 3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.22	Basis:	Wet Weight
Seq Number:	3119170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2400**	49.6	mg/kg	03.10.20 14.00		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS31**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-003	Date Collected:	03.09.20 12.10	Sample Depth:	3 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.22	Basis:	Wet Weight
Seq Number:	3119170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**415**	49.8	mg/kg	03.10.20 14.06		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS34**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-004	Date Collected:	03.09.20 13.39	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.22	Basis:	Wet Weight
Seq Number:	3119170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4700**	50.1	mg/kg	03.10.20 14.11		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS35**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-005	Date Collected:	03.09.20 13.43	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.22	Basis:	Wet Weight
Seq Number:	3119170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**650**	50.4	mg/kg	03.10.20 14.17		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS36**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-006	Date Collected:	03.09.20 13.48	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**203**	49.6	mg/kg	03.10.20 14.50		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS37**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-007	Date Collected:	03.09.20 13.53	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	49.8	mg/kg	03.10.20 15.07		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS38**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-008	Date Collected:	03.09.20 13.58	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**584**	49.9	mg/kg	03.10.20 15.13		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS40**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-009	Date Collected:	03.09.20 14.57	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**576**	50.1	mg/kg	03.10.20 15.18		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS41**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-010	Date Collected:	03.09.20 14.59	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**375**	50.4	mg/kg	03.10.20 15.24		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS42**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-011	Date Collected:	03.09.20 15.01	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**550**	50.1	mg/kg	03.10.20 15.41		5

Certificate of Analytical Results 655093

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS43**	Matrix:	Soil	Date Received:	03.10.20 08.45
Lab Sample Id:	655093-012	Date Collected:	03.09.20 15.04	Sample Depth:	5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.10.20 11.24	Basis:	Wet Weight
Seq Number:	3119171				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**64.8**	49.9	mg/kg	03.10.20 15.46		5

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.

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

QC Summary 655093

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119170 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698479-1-BLK — LCS Sample Id: 7698479-1-BKS — LCSD Sample Id: 7698479-1-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	259	104	259	104	90-110	0	20	mg/kg	03.10.20 11:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119171 — Matrix: Solid — Date Prep: 03.10.20
MB Sample Id: 7698481-1-BLK — LCS Sample Id: 7698481-1-BKS — LCSD Sample Id: 7698481-1-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	259	104	263	105	90-110	2	20	mg/kg	03.10.20 14:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119170 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655087-001 — MS Sample Id: 655087-001 S — MSD Sample Id: 655087-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	212	106	210	105	90-110	1	20	mg/kg	03.10.20 11:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119170 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655087-011 — MS Sample Id: 655087-011 S — MSD Sample Id: 655087-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	249	200	463	107	460	106	90-110	1	20	mg/kg	03.10.20 13:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3119171 — Matrix: Soil — Date Prep: 03.10.20
Parent Sample Id: 655093-006 — MS Sample Id: 655093-006 S — MSD Sample Id: 655093-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	203	199	421	110	404	101	90-110	4	20	mg/kg	03.10.20 14:56	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 655093

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Seq Number: 3119171 Matrix: Soil Date Prep: 03.10.20

Parent Sample Id: 655094-002 MS Sample Id: 655094-002 S MSD Sample Id: 655094-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2650	201	2840	95	2850	100	90-110	0	20	mg/kg	03.10.20 16:03	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 655093

XENCO LABORATORIES
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 1 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01391900i	Routine ☐	
P.O. Number:	28P5135	Rush: 2day	
Sampler's Name:	Jeremy Hill	Due Date: 3/12/20	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1-2	Thermometer ID	T-NM-007	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	12	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
SW60		3/9/20	1047	0-3'	1			X	Composite
SW61			1057	0-3'					
FS31			1210	3-4'					
FS34			1339	4'					
FS35			1343	4'					
FS36			1348	4'					
FS37			1353	4'					
FS38			1358	4'					
FS40			1457	3'					
FS41			1455	3'					

Work Order Notes

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

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 Tl 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 Tl 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 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
	Elizabeth Mata	3/10/20 0830	2 Elizabeth Mata		3/10/20 08:45
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
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Released to Imaging: 4/14/2026 8:09:55 AM

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Chain of Custody

Work Order No: E55093

XENCO LABORATORIES
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 Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01291901	Routine	☐
P.O. Number:	2RP-5135	Rush:	2 day
Sampler's Name:	Jeremy Hill	Due Date:	3/12/20

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

ANALYSIS REQUEST

Work Order Notes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
FS42	S	3/9/20	1501	4'	1			X	Composite
FS43	S	3/9/20	1504	5'	1			X	Composite
	S								
	S								
	S								
	S								
	S								
	S								
	S								
	S								

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 Tl 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 Tl 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 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
1			3/10/20 @ 0830	2		3/10/20 08:45
3				4		
5				6		

Revised Date 05141B Rev. 2015.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 23 of 24

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.10.2020 08.45.00 AM

Work Order #: 655093

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)?	1.2
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.10.2020

Checklist reviewed by: Jessica Kramer Date: 03.10.2020

Jessica Kramer

Analytical Report 656375

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

24-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

24-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **656375**
Remuda Basin #1
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 XENCO Report Number(s) 656375. 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 XENCO Laboratories. 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. 656375 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW 63	S	03-19-20 13:40	0 - 6 ft	656375-001
SW 64	S	03-19-20 13:45	0 - 4 ft	656375-002
FS 46	S	03-19-20 14:15	4 ft	656375-003
FS 47	S	03-19-20 14:23	4 ft	656375-004
FS 48	S	03-19-20 14:32	4 ft	656375-005
FS 49	S	03-19-20 14:39	4 ft	656375-006
FS 50	S	03-19-20 14:48	4 ft	656375-007
FS 51	S	03-19-20 14:59	4 ft	656375-008

Version: 1.%

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *656375*

Report Date: *24-MAR-20*
Date Received: *03/20/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 656375

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-20-20 09:55 am
Report Date: 24-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	656375-001		656375-002		656375-003		656375-004		656375-005		656375-006	
	Field Id:	SW 63		SW 64		FS 46		FS 47		FS 48		FS 49	
	Depth:	0-6 ft		0-4 ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-19-20 13:40		Mar-19-20 13:45		Mar-19-20 14:15		Mar-19-20 14:23		Mar-19-20 14:32		Mar-19-20 14:39	
Chloride by EPA 300	***Extracted:***	Mar-20-20 11:00		Mar-20-20 11:00		Mar-20-20 11:00		Mar-20-20 11:00		Mar-20-20 11:00		Mar-20-20 11:00	
	Analyzed:	Mar-20-20 15:12		Mar-20-20 14:10		Mar-20-20 14:15		Mar-20-20 14:21		Mar-20-20 14:27		Mar-20-20 14:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		58.7	10.0	498	49.7	3010	49.8	3160	49.9	2450	50.1	1410	49.9

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Version: 1.%

Jessica Kramer
Project Manager

Final 1.000

Certificate of Analysis Summary 656375

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-20-20 09:55 am
Report Date: 24-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	656375-007		656375-008									
	Field Id:	FS 50		FS 51									
	Depth:	4- ft		4- ft									
	Matrix:	SOIL		SOIL									
	Sampled:	Mar-19-20 14:48		Mar-19-20 14:59									
Chloride by EPA 300	***Extracted:***	Mar-20-20 11:00		Mar-20-20 12:07									
	Analyzed:	Mar-20-20 14:38		Mar-20-20 15:18									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		1520	49.6	1650	49.8								

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer
Project Manager

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 63**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-001	Date Collected:	03.19.20 13.40	Sample Depth:	0 - 6 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**58.7**	10.0	mg/kg	03.20.20 15.12		1

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 64**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-002	Date Collected:	03.19.20 13.45	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**498**	49.7	mg/kg	03.20.20 14.10		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 46**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-003	Date Collected:	03.19.20 14.15	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3010**	49.8	mg/kg	03.20.20 14.15		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 47**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-004	Date Collected:	03.19.20 14.23	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3160**	49.9	mg/kg	03.20.20 14.21		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 48**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-005	Date Collected:	03.19.20 14.32	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2450**	50.1	mg/kg	03.20.20 14.27		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 49**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-006	Date Collected:	03.19.20 14.39	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1410**	49.9	mg/kg	03.20.20 14.32		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 50**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-007	Date Collected:	03.19.20 14.48	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 11.00	Basis:	Wet Weight
Seq Number:	3120551				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1520**	49.6	mg/kg	03.20.20 14.38		5

Certificate of Analytical Results 656375

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 51**	Matrix:	Soil	Date Received:	03.20.20 09.55
Lab Sample Id:	656375-008	Date Collected:	03.19.20 14.59	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.20.20 12.07	Basis:	Wet Weight
Seq Number:	3120561				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1650**	49.8	mg/kg	03.20.20 15.18		5

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.

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

QC Summary 656375

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120551 — Matrix: Solid — Date Prep: 03.20.20
MB Sample Id: 7699402-1-BLK — LCS Sample Id: 7699402-1-BKS — LCSD Sample Id: 7699402-1-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	262	105	262	105	90-110	0	20	mg/kg	03.20.20 11:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120561 — Matrix: Solid — Date Prep: 03.20.20
MB Sample Id: 7699403-1-BLK — LCS Sample Id: 7699403-1-BKS — LCSD Sample Id: 7699403-1-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	261	104	261	104	90-110	0	20	mg/kg	03.20.20 15:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120551 — Matrix: Soil — Date Prep: 03.20.20
Parent Sample Id: 656353-001 — MS Sample Id: 656353-001 S — MSD Sample Id: 656353-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	257	199	468	106	471	107	90-110	1	20	mg/kg	03.20.20 12:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120551 — Matrix: Soil — Date Prep: 03.20.20
Parent Sample Id: 656368-008 — MS Sample Id: 656368-008 S — MSD Sample Id: 656368-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1030	200	1230	100	1240	104	90-110	1	20	mg/kg	03.20.20 13:30	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3120561 — Matrix: Soil — Date Prep: 03.20.20
Parent Sample Id: 656375-008 — MS Sample Id: 656375-008 S — MSD Sample Id: 656375-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1650	200	1830	90	1870	110	90-110	2	20	mg/kg	03.20.20 15:24	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 656375

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Seq Number: 3120561 Matrix: Soil Date Prep: 03.20.20

Parent Sample Id: 656456-002 MS Sample Id: 656456-002 S MSD Sample Id: 656456-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	391	200	602	106	599	104	90-110	0	20	mg/kg	03.20.20 18:36	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

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Chain of Custody

Work Order No: 656375

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178 Email:	dmoir@ltenv.com cagbor@ltenv.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:		Rush: 3 DAYS	
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.8	Thermometer ID	TNM007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SW 63	S	3/19/2020	13:40	0 - 6				X
SW 64	S	3/19/2020	13:45	0 - 4				X
FS 46	S	3/19/2020	14:15	4				X
FS 47	S	3/19/2020	14:23	4				X
FS 48	S	3/19/2020	14:32	4				X
FS 49	S	3/19/2020	14:39	4				X
FS 50	S	3/19/2020	14:48	4				X
FS 51	S	3/19/2020	14:59	4				X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

COMPOSITE
COMPOSITE
COMPOSITE
COMPOSITE
COMPOSITE
COMPOSITE
COMPOSITE
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 Tl 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 Tl 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 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
1		3/20/20 09:55	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.20.2020 09.55.00 AM

Work Order #: 656375

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)?	1.8
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.20.2020

Checklist reviewed by: Jessica Kramer Date: 03.24.2020

Jessica Kramer

Analytical Report 656711

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

25-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

25-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **656711**
Remuda Basin #1
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 XENCO Report Number(s) 656711. 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 XENCO Laboratories. 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. 656711 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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Released to Imaging: 4/14/2026 8:09:55 AM

Sample Cross Reference 656711

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW 67	S	03-24-20 11:30	0 - 4 ft	656711-001
SW 68	S	03-24-20 12:28	0 - 4 ft	656711-002
SW 69	S	03-24-20 12:51	0 - 4 ft	656711-003

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *656711*

Report Date: *25-MAR-20*
Date Received: *03/24/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Received by OCD: 12/11/2025 7:09:27 AM

Certificate of Analysis Summary 656711

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue Mar-24-20 03:30 pm
Report Date: 25-MAR-20
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	656711-001		656711-002		656711-003					
	Field Id:	SW 67		SW 68		SW 69					
	Depth:	0-4 ft		0-4 ft		0-4 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Mar-24-20 11:30		Mar-24-20 12:28		Mar-24-20 12:51					
Chloride by EPA 300	***Extracted:***	Mar-24-20 16:51		Mar-24-20 16:51		Mar-24-20 16:51					
	Analyzed:	Mar-24-20 17:54		Mar-24-20 18:00		Mar-24-20 18:05					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		371	49.8	1140	99.8	127	99.8				

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Final 1.000

Released to Imaging: 4/14/2026 8:09:55 AM

Certificate of Analytical Results 656711

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 67**	Matrix:	Soil	Date Received:	03.24.20 15.30
Lab Sample Id:	656711-001	Date Collected:	03.24.20 11.30	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.24.20 16.51	Basis:	Wet Weight
Seq Number:	3120867				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**371**	49.8	mg/kg	03.24.20 17.54		5

Certificate of Analytical Results 656711

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 68**	Matrix:	Soil	Date Received:	03.24.20 15.30
Lab Sample Id:	656711-002	Date Collected:	03.24.20 12.28	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.24.20 16.51	Basis:	Wet Weight
Seq Number:	3120867				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1140**	99.8	mg/kg	03.24.20 18.00		10

Certificate of Analytical Results 656711

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 69**	Matrix:	Soil	Date Received:	03.24.20 15.30
Lab Sample Id:	656711-003	Date Collected:	03.24.20 12.51	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.24.20 16.51	Basis:	Wet Weight
Seq Number:	3120867				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**127**	99.8	mg/kg	03.24.20 18.05		10

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.

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

QC Summary 656711

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3120867 Matrix: Solid Date Prep: 03.24.20
MB Sample Id: 7699626-1-BLK LCS Sample Id: 7699626-1-BKS LCSD Sample Id: 7699626-1-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	256	102	263	105	90-110	3	20	mg/kg	03.24.20 15:38	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3120867 Matrix: Soil Date Prep: 03.24.20
Parent Sample Id: 656666-001 MS Sample Id: 656666-001 S MSD Sample Id: 656666-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	688	200	892	102	876	96	90-110	2	20	mg/kg	03.24.20 15:55	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3120867 Matrix: Soil Date Prep: 03.24.20
Parent Sample Id: 656670-008 MS Sample Id: 656670-008 S MSD Sample Id: 656670-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2150	201	2350	100	2350	100	90-110	0	20	mg/kg	03.24.20 17:14	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Page 839 of 1252

Chain of Custody

Work Order No: 605677

XENCO LABORATORIES
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

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine	☐
P.O. Number:		Rush:	3 DAY
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	4.6	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	3	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
SW 67	S	3/24/20	1130	0-4	1			X	COMPOSITE
SW 68	S	3/24/20	1228	0-4	1			X	COMPOSITE
SW 69	S	3/24/20	1251	0-4	1			X	COMPOSITE

Work Order Notes

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

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 Tl 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 Tl 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 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
1		3/24/20 1518	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 11 of 12
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.24.2020 03.30.00 PM

Work Order #: 656711

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)?	4.6
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.24.2020

Checklist reviewed by: Jessica Kramer Date: 03.25.2020

Jessica Kramer

Analytical Report 657168

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

30-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

30-MAR-20

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **657168**
Remuda Basin #1
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 XENCO Report Number(s) 657168. 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 XENCO Laboratories. 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. 657168 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW 70	S	03-26-20 11:00	0 - 4 ft	657168-001
Sw 74	S	03-27-20 10:10	0 - 8 ft	657168-002
SW 75	S	03-27-20 10:20	0 - 6 ft	657168-003
FS 52	S	03-27-20 10:30	4 ft	657168-004
FS 53	S	03-27-20 10:40	4 ft	657168-005
FS 54	S	03-27-20 10:50	4 ft	657168-006
FS 55	S	03-27-20 11:00	4 ft	657168-007
FS 56	S	03-27-20 11:10	4 ft	657168-008
FS 57	S	03-27-20 11:20	4 ft	657168-009

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *657168*

Report Date: *30-MAR-20*
Date Received: *03/27/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 657168

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 02:10 pm
Report Date: 30-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	657168-001		657168-002		657168-003		657168-004		657168-005		657168-006	
	Field Id:	SW 70		Sw 74		SW 75		FS 52		FS 53		FS 54	
	Depth:	0-4 ft		0-8 ft		0-6 ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-26-20 11:00		Mar-27-20 10:10		Mar-27-20 10:20		Mar-27-20 10:30		Mar-27-20 10:40		Mar-27-20 10:50	
Chloride by EPA 300	***Extracted:***	** ** ** **		** ** ** **		Mar-27-20 17:01		Mar-27-20 17:01		Mar-27-20 17:01		Mar-27-20 17:01	
	Analyzed:	Mar-27-20 17:39		Mar-27-20 17:45		Mar-27-20 18:23		Mar-27-20 18:41		Mar-27-20 18:47		Mar-27-20 18:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		148	49.9	738	49.7	797	50.1	4130	50.1	3310	50.2	56.1	50.4

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

Jessica Kramer
Project Manager

Final 1.000

Certificate of Analysis Summary 657168

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Mar-27-20 02:10 pm
Report Date: 30-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	657168-007		657168-008		657168-009							
	Field Id:	FS 55		FS 56		FS 57							
	Depth:	4- ft		4- ft		4- ft							
	Matrix:	SOIL		SOIL		SOIL							
	Sampled:	Mar-27-20 11:00		Mar-27-20 11:10		Mar-27-20 11:20							
Chloride by EPA 300	***Extracted:***	Mar-27-20 17:01		Mar-27-20 17:01		Mar-27-20 17:01							
	Analyzed:	Mar-27-20 19:14		Mar-27-20 19:21		Mar-27-20 19:27							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		37.5	9.92	51.6	49.9	55.6	49.8						

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

Jessica Kramer
Project Manager

Final 1.000

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 70**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-001	Date Collected:	03.26.20 11.00	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**148**	49.9	mg/kg	03.27.20 17.39		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**Sw 74**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-002	Date Collected:	03.27.20 10.10	Sample Depth:	0 - 8 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 13.00	Basis:	Wet Weight
Seq Number:	3121337				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**738**	49.7	mg/kg	03.27.20 17.45		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW 75**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-003	Date Collected:	03.27.20 10.20	Sample Depth:	0 - 6 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**797**	50.1	mg/kg	03.27.20 18.23		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 52**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-004	Date Collected:	03.27.20 10.30	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4130**	50.1	mg/kg	03.27.20 18.41		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 53**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-005	Date Collected:	03.27.20 10.40	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3310**	50.2	mg/kg	03.27.20 18.47		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 54**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-006	Date Collected:	03.27.20 10.50	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.1**	50.4	mg/kg	03.27.20 18.54		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 55**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-007	Date Collected:	03.27.20 11.00	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37.5**	9.92	mg/kg	03.27.20 19.14		1

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 56**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-008	Date Collected:	03.27.20 11.10	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.6**	49.9	mg/kg	03.27.20 19.21		5

Certificate of Analytical Results 657168

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS 57**	Matrix:	Soil	Date Received:	03.27.20 14.10
Lab Sample Id:	657168-009	Date Collected:	03.27.20 11.20	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	03.27.20 17.01	Basis:	Wet Weight
Seq Number:	3121325				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**55.6**	49.8	mg/kg	03.27.20 19.27		5

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.

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

QC Summary 657168

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7699958-1-BLK — LCS Sample Id: 7699958-1-BKS — LCSD Sample Id: 7699958-1-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	264	106	266	106	90-110	1	20	mg/kg	03.27.20 14:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121325 — Matrix: Solid — Date Prep: 03.27.20
MB Sample Id: 7699959-1-BLK — LCS Sample Id: 7699959-1-BKS — LCSD Sample Id: 7699959-1-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	265	106	268	107	90-110	1	20	mg/kg	03.27.20 18:10	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 657123-001 — MS Sample Id: 657123-001 S — MSD Sample Id: 657123-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	336	199	545	105	544	105	90-110	0	20	mg/kg	03.27.20 14:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121337 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 657123-011 — MS Sample Id: 657123-011 S — MSD Sample Id: 657123-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	781	200	988	104	986	103	90-110	0	20	mg/kg	03.27.20 16:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3121325 — Matrix: Soil — Date Prep: 03.27.20
Parent Sample Id: 657168-003 — MS Sample Id: 657168-003 S — MSD Sample Id: 657168-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	797	200	1000	102	994	98	90-110	1	20	mg/kg	03.27.20 18:29	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 657168

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P

Seq Number: 3121325 Matrix: Soil Date Prep: 03.27.20

Parent Sample Id: 657199-002 MS Sample Id: 657199-002 S MSD Sample Id: 657199-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	371	199	579	105	576	103	90-110	1	20	mg/kg	03.27.20 19:48	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Page 859 of 1252

Chain of Custody

XENCO LABORATORIES
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

Work Order No: 1057168

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrel
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:	Carlsbad, NM
Phone:	432.704.5178	Email:	dmoir@ltenv.com cagbor@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	REMUDA BASIN #1	Turn Around	
Project Number:	012919001	Routine	☐
P.O. Number:		Rush:	3 DAYS
Sampler's Name:	Chris Agbor	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	3.2	Thermometer ID	T-NM007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	9

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW 70	S	3/26/20	1100	0-4	1			X
SW 74		3/27/20	1010	0-8'				X
SW 75			1020	0-6				X
FS 52			1030	4				X
FS 53			1040	4				X
FS 54			1050	4				X
FS 55			1100	4				X
FS 56			1110	4				X
FS 57			1120	4				X

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		3/27/20 1410	2		
			4		
			6		

Revised Date 05/14/18 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 19 of 20

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 03.27.2020 02.10.00 PM

Work Order #: 657168

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)?	3.2
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 03.27.2020

Checklist reviewed by: Jessica Kramer Date: 03.27.2020

Jessica Kramer

Analytical Report 658056

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

04.07.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.07.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **658056**
Remuda Basin 001
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 XENCO Report Number(s) 658056. 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 XENCO Laboratories. 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. 658056 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS28	S	04.06.2020 13:36	4 ft	658056-001
FS29	S	04.06.2020 13:38	4 ft	658056-002
FS30	S	04.06.2020 13:41	4 ft	658056-003
FS39	S	04.06.2020 13:44	4 ft	658056-004
SW76	S	04.06.2020 13:49	0 - 4 ft	658056-005
FS58	S	04.06.2020 14:15	4 ft	658056-006
FS59	S	04.06.2020 14:18	4 ft	658056-007
FS60	S	04.06.2020 14:20	4 ft	658056-008
FS61	S	04.06.2020 14:22	4 ft	658056-009

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *658056*

Report Date: *04.07.2020*
Date Received: *04.06.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658056

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.06.2020 16:33
Report Date: 04.07.2020 12:22
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658056-001		658056-002		658056-003		658056-004		658056-005		658056-006	
	Field Id:	FS28		FS29		FS30		FS39		SW76		FS58	
	Depth:	4- ft		4- ft		4- ft		4- ft		0-4 ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.06.2020 13:36		04.06.2020 13:38		04.06.2020 13:41		04.06.2020 13:44		04.06.2020 13:49		04.06.2020 14:15	
Chloride by EPA 300	***Extracted:***	04.06.2020 17:00		04.06.2020 17:00		04.06.2020 17:00		04.06.2020 17:00		04.06.2020 17:00		04.06.2020 17:00	
	Analyzed:	04.06.2020 17:37		04.06.2020 17:43		04.06.2020 17:49		04.06.2020 17:55		04.06.2020 18:01		04.06.2020 18:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7050	50.1	4930	49.7	1020	50.5	1980	50.5	677	50.0	373	50.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658056

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.06.2020 16:33
Report Date: 04.07.2020 12:22
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	658056-007		658056-008		658056-009					
	Field Id:	FS59		FS60		FS61					
	Depth:	4- ft		4- ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	04.06.2020 14:18		04.06.2020 14:20		04.06.2020 14:22					
Chloride by EPA 300	***Extracted:***	04.06.2020 17:00		04.06.2020 17:00		04.06.2020 17:00					
	Analyzed:	04.06.2020 18:27		04.06.2020 18:33		04.06.2020 18:39					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		1900	49.9	1230	50.1	1360	49.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS28**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-001	Date Collected:	04.06.2020 13:36	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7050**	50.1	mg/kg	04.06.2020 17:37		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS29**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-002	Date Collected:	04.06.2020 13:38	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4930**	49.7	mg/kg	04.06.2020 17:43		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS30**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-003	Date Collected:	04.06.2020 13:41	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1020**	50.5	mg/kg	04.06.2020 17:49		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS39**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-004	Date Collected:	04.06.2020 13:44	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1980**	50.5	mg/kg	04.06.2020 17:55		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW76**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-005	Date Collected:	04.06.2020 13:49	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**677**	50.0	mg/kg	04.06.2020 18:01		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS58**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-006	Date Collected:	04.06.2020 14:15	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**373**	50.1	mg/kg	04.06.2020 18:07		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS59**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-007	Date Collected:	04.06.2020 14:18	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1900**	49.9	mg/kg	04.06.2020 18:27		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS60**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-008	Date Collected:	04.06.2020 14:20	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1230**	50.1	mg/kg	04.06.2020 18:33		5

Certificate of Analytical Results 658056

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS61**	Matrix:	Soil	Date Received:	04.06.2020 16:33
Lab Sample Id:	658056-009	Date Collected:	04.06.2020 14:22	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	0
Analyst:	MAB	Date Prep:	04.06.2020 17:00	Basis:	Dry Weight
Seq Number:	3122147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1360**	49.9	mg/kg	04.06.2020 18:39		5

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

QC Summary 658056

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122147 Matrix: Solid Date Prep: 04.06.2020
MB Sample Id: 7700659-1-BLK LCS Sample Id: 7700659-1-BKS LCSD Sample Id: 7700659-1-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	261	104	259	104	90-110	1	20	mg/kg	04.06.2020 16:31	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122147 Matrix: Soil Date Prep: 04.06.2020
Parent Sample Id: 657797-003 MS Sample Id: 657797-003 S MSD Sample Id: 657797-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	897	199	1090	97	1100	102	90-110	1	20	mg/kg	04.06.2020 16:49	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122147 Matrix: Soil Date Prep: 04.06.2020
Parent Sample Id: 658056-006 MS Sample Id: 658056-006 S MSD Sample Id: 658056-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	373	200	569	98	572	100	90-110	1	20	mg/kg	04.06.2020 18:14	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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Chain of Custody

Work Order No: 1058056

XENCO LABORATORIES
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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remud Basin 001	Turn Around	
Project Number:	01291901	Routine ☐	
P.O. Number:	2RP-5135	Rush: 2 day	
Sampler's Name:	Jeremy Hill	Due Date: 4/8/20	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	3.0	Thermometer ID		
Received Intact:	(Yes) No	TNN007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	9	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) only
FS28		4/6/20	1336	4'	1			
FS29			1338	4'				
FS30			1341	4'				
FS39			1344	4'				
SW76			1349	0-4'				
FS58			1415	4'				
FS59			1418	4'				
FS60			1420	4'				
FS61			1423	4'				

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

dust comp

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 Tl 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 Tl 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 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
		4/6/20 16:33	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 18 of 19

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.06.2020 04.33.00 PM

Work Order #: 658056

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)?	3
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Martha Castro Date: 04.06.2020

Checklist reviewed by: Jessica Kramer Date: 04.07.2020

Jessica Kramer

Analytical Report 658215

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

04.08.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.08.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **658215**
Remuda Basin 001
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 XENCO Report Number(s) 658215. 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 XENCO Laboratories. 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. 658215 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS32	S	04.07.2020 11:01	4 ft	658215-001
FS33	S	04.07.2020 11:03	4 ft	658215-002
FS44	S	04.07.2020 11:06	4 ft	658215-003
FS45	S	04.07.2020 11:09	4 ft	658215-004
SW66	S	04.07.2020 11:13	0 - 4 ft	658215-005
FS24A	S	04.07.2020 12:20	4 ft	658215-006
FS21	S	04.07.2020 14:05	4 ft	658215-007
FS26A	S	04.07.2020 14:08	4 ft	658215-008
SW43	S	04.07.2020 14:12	0 - 4 ft	658215-009

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *658215*

Report Date: *04.08.2020*
Date Received: *04.07.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658215

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 04.07.2020 16:25
Report Date: 04.08.2020 11:32
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658215-001		658215-002		658215-003		658215-004		658215-005		658215-006	
	Field Id:	FS32		FS33		FS44		FS45		SW66		FS24A	
	Depth:	4- ft		4- ft		4- ft		4- ft		0-4 ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.07.2020 11:01		04.07.2020 11:03		04.07.2020 11:06		04.07.2020 11:09		04.07.2020 11:13		04.07.2020 12:20	
Chloride by EPA 300	***Extracted:***	04.07.2020 17:52		04.07.2020 17:52		04.07.2020 17:52		04.07.2020 17:52		04.07.2020 17:52		04.07.2020 17:52	
	Analyzed:	04.07.2020 23:11		04.07.2020 23:17		04.07.2020 23:23		04.07.2020 23:28		04.07.2020 23:46		04.07.2020 23:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4900	50.1	1410	50.2	3710	50.1	2870	50.1	2140	50.5	740	50.2

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658215

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 04.07.2020 16:25
Report Date: 04.08.2020 11:32
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	658215-007		658215-008		658215-009					
	Field Id:	FS21		FS26A		SW43					
	Depth:	4- ft		4- ft		0-4 ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	04.07.2020 14:05		04.07.2020 14:08		04.07.2020 14:12					
Chloride by EPA 300	***Extracted:***	04.07.2020 17:52		04.07.2020 17:52		04.07.2020 17:52					
	Analyzed:	04.07.2020 23:58		04.08.2020 00:04		04.08.2020 00:10					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		394	50.1	1390	50.5	351	50.5				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS32**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-001	Date Collected:	04.07.2020 11:01	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4900**	50.1	mg/kg	04.07.2020 23:11		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS33**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-002	Date Collected:	04.07.2020 11:03	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1410**	50.2	mg/kg	04.07.2020 23:17		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS44**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-003	Date Collected:	04.07.2020 11:06	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3710**	50.1	mg/kg	04.07.2020 23:23		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS45**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-004	Date Collected:	04.07.2020 11:09	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2870**	50.1	mg/kg	04.07.2020 23:28		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW66**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-005	Date Collected:	04.07.2020 11:13	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2140**	50.5	mg/kg	04.07.2020 23:46		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS24A**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-006	Date Collected:	04.07.2020 12:20	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**740**	50.2	mg/kg	04.07.2020 23:52		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS21**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-007	Date Collected:	04.07.2020 14:05	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**394**	50.1	mg/kg	04.07.2020 23:58		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS26A**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-008	Date Collected:	04.07.2020 14:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1390**	50.5	mg/kg	04.08.2020 00:04		5

Certificate of Analytical Results 658215

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW43**	Matrix:	Soil	Date Received:	04.07.2020 16:25
Lab Sample Id:	658215-009	Date Collected:	04.07.2020 14:12	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.07.2020 17:52	Basis:	Wet Weight
Seq Number:	3122310				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**351**	50.5	mg/kg	04.08.2020 00:10		5

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

QC Summary 658215

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122310 Matrix: Solid Date Prep: 04.07.2020
MB Sample Id: 7700762-1-BLK LCS Sample Id: 7700762-1-BKS LCSD Sample Id: 7700762-1-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	263	105	263	105	90-110	0	20	mg/kg	04.07.2020 22:41	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122310 Matrix: Soil Date Prep: 04.07.2020
Parent Sample Id: 658202-011 MS Sample Id: 658202-011 S MSD Sample Id: 658202-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	963	200	1170	104	1160	99	90-110	1	20	mg/kg	04.07.2020 22:59	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Final 1.000

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Chain of Custody

XENCO LABORATORIES

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

Work Order No: 658215

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01219001	Routine	☐
P.O. Number:	2RP-5135	Rush:	48hr
Sampler's Name:	Jeremy Hill	Due Date:	4/9/26

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	3.5	Thermometer ID	TNM007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	9

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
FS33	S	4/7/26	1101	4'	1	N/A	N/A	X	composite
FS33			1103	4'					
FS44			1106	4'					
FS45			1109	4'					
SW66			1113	0-4'					
FS34A			1120	4'					
FS31			1405	4'					
FS36A			1408	4'					
SW43			1412	0-4'					

ANALYSIS REQUEST

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

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 Tl 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 Tl 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 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
		4/7/26 16:25	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Page 18 of 19
Final 1.000
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.07.2020 04.25.00 PM

Work Order #: 658215

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)?	3.5
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.07.2020

Checklist reviewed by: Jessica Kramer Date: 04.08.2020

Jessica Kramer

Analytical Report 658381

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

04.10.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.10.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **658381**
Remuda Basin 001
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 XENCO Report Number(s) 658381. 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 XENCO Laboratories. 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. 658381 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS6	S	04.08.2020 09:08	4 ft	658381-001
FS6	S	04.08.2020 09:08	4 ft	658381-002
FS6	S	04.08.2020 09:08	4 ft	658381-003
FS6	S	04.08.2020 09:08	4 ft	658381-004
FS6	S	04.08.2020 09:08	4 ft	658381-005
SW77	S	04.08.2020 10:35	0 - 4 ft	658381-006
SW78	S	04.08.2020 11:45	0 - 8 ft	658381-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *658381*

Report Date: *04.10.2020*
Date Received: *04.08.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658381

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 04.08.2020 16:22
Report Date: 04.10.2020 11:18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658381-001		658381-002		658381-003		658381-004		658381-005		658381-006	
	Field Id:	FS6		FS6		FS6		FS6		FS6		SW77	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		0-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 10:35	
Chloride by EPA 300	***Extracted:***	04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46	
	Analyzed:	04.09.2020 15:21		04.09.2020 15:37		04.09.2020 15:43		04.09.2020 15:48		04.09.2020 15:54		04.09.2020 16:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		118	9.96	237	10.0	216	9.98	325	9.92	299	10.0	276	10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658381

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 04.08.2020 16:22
Report Date: 04.10.2020 11:18
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	658381-007					
	Field Id:	SW78					
	Depth:	0-8 ft					
	Matrix:	SOIL					
	Sampled:	04.08.2020 11:45					
Chloride by EPA 300	***Extracted:***	04.09.2020 14:46					
	Analyzed:	04.09.2020 16:16					
	Units/RL:	mg/kg	RL				
Chloride		1070	10.0				

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS6**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-001	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	9.96	mg/kg	04.09.2020 15:21		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS6**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-002	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**237**	10.0	mg/kg	04.09.2020 15:37		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS6**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-003	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	9.98	mg/kg	04.09.2020 15:43		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS6**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-004	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**325**	9.92	mg/kg	04.09.2020 15:48		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS6**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-005	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**299**	10.0	mg/kg	04.09.2020 15:54		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW77**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-006	Date Collected:	04.08.2020 10:35	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**276**	10.0	mg/kg	04.09.2020 16:10		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW78**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-007	Date Collected:	04.08.2020 11:45	Sample Depth:	0 - 8 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1070**	10.0	mg/kg	04.09.2020 16:16		1

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

QC Summary 658381

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Solid Date Prep: 04.09.2020
MB Sample Id: 7700932-1-BLK LCS Sample Id: 7700932-1-BKS LCSD Sample Id: 7700932-1-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	256	102	258	103	90-110	1	20	mg/kg	04.09.2020 15:07	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658381-001 MS Sample Id: 658381-001 S MSD Sample Id: 658381-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	118	199	328	106	326	104	90-110	1	20	mg/kg	04.09.2020 15:26	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658383-004 MS Sample Id: 658383-004 S MSD Sample Id: 658383-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	249	247	99	250	100	90-110	1	20	mg/kg	04.09.2020 16:43	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 914 of 1252

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 418381

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	jhill@tenv.com, dmoir@tenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 601	Turn Around	
Project Number:	01391901	Routine	R
P.O. Number:	3RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	4.0	Temp Blank:	(Yes) No
Received Intact:	(Yes) No	Wet Ice:	(Yes) No
Cooler Custody Seals:	Yes (No) N/A	Thermometer ID	T-NM007
Sample Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
		Total Containers:	7

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
FS62	S	4/8/20	0908	4'	1			
FS63			0911	4'				
FS64			0914	4'				
FS65			0916	4'				
FS66			0920	4'				
SW77			1035	0-4'				
SW78			1145	0-4'				

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Note: 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
1			4/8/20 16:22	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Page 16 of 17
Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.08.2020 04.22.00 PM

Work Order #: 658381

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 *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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.08.2020

Checklist reviewed by: Jessica Kramer Date: 04.09.2020

Jessica Kramer

Analytical Report 658381

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

04.13.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.13.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **658381**
Remuda Basin 001
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 XENCO Report Number(s) 658381. 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 XENCO Laboratories. 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. 658381 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS62	S	04.08.2020 09:08	4 ft	658381-001
FS63	S	04.08.2020 09:08	4 ft	658381-002
FS64	S	04.08.2020 09:08	4 ft	658381-003
FS65	S	04.08.2020 09:08	4 ft	658381-004
FS66	S	04.08.2020 09:08	4 ft	658381-005
SW77	S	04.08.2020 10:35	0 - 4 ft	658381-006
SW78	S	04.08.2020 11:45	0 - 8 ft	658381-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *658381*

Report Date: *04.13.2020*
Date Received: *04.08.2020*

Sample receipt non conformances and comments:

V1.001 Revision - Corrected sample names typo. JK 04/13/20

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658381

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 04.08.2020 16:22
Report Date: 04.13.2020 10:52
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658381-001		658381-002		658381-003		658381-004		658381-005		658381-006	
	Field Id:	FS62		FS63		FS64		FS65		FS66		SW77	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		0-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 09:08		04.08.2020 10:35	
Chloride by EPA 300	***Extracted:***	04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46		04.09.2020 14:46	
	Analyzed:	04.09.2020 15:21		04.09.2020 15:37		04.09.2020 15:43		04.09.2020 15:48		04.09.2020 15:54		04.09.2020 16:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		118	9.96	237	10.0	216	9.98	325	9.92	299	10.0	276	10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658381

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Wed 04.08.2020 16:22
Report Date: 04.13.2020 10:52
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	658381-007					
	Field Id:	SW78					
	Depth:	0-8 ft					
	Matrix:	SOIL					
	Sampled:	04.08.2020 11:45					
Chloride by EPA 300	***Extracted:***	04.09.2020 14:46					
	Analyzed:	04.09.2020 16:16					
	Units/RL:	mg/kg	RL				
Chloride		1070	10.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS62**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-001	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	9.96	mg/kg	04.09.2020 15:21		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS63**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-002	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**237**	10.0	mg/kg	04.09.2020 15:37		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS64**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-003	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	9.98	mg/kg	04.09.2020 15:43		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS65**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-004	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**325**	9.92	mg/kg	04.09.2020 15:48		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS66**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-005	Date Collected:	04.08.2020 09:08	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**299**	10.0	mg/kg	04.09.2020 15:54		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW77**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-006	Date Collected:	04.08.2020 10:35	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**276**	10.0	mg/kg	04.09.2020 16:10		1

Certificate of Analytical Results 658381

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW78**	Matrix:	Soil	Date Received:	04.08.2020 16:22
Lab Sample Id:	658381-007	Date Collected:	04.08.2020 11:45	Sample Depth:	0 - 8 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 14:46	Basis:	Wet Weight
Seq Number:	3122582				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1070**	10.0	mg/kg	04.09.2020 16:16		1

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

QC Summary 658381

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Solid Date Prep: 04.09.2020
MB Sample Id: 7700932-1-BLK LCS Sample Id: 7700932-1-BKS LCSD Sample Id: 7700932-1-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	256	102	258	103	90-110	1	20	mg/kg	04.09.2020 15:07	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658381-001 MS Sample Id: 658381-001 S MSD Sample Id: 658381-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	118	199	328	106	326	104	90-110	1	20	mg/kg	04.09.2020 15:26	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122582 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658383-004 MS Sample Id: 658383-004 S MSD Sample Id: 658383-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	249	247	99	250	100	90-110	1	20	mg/kg	04.09.2020 16:43	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 931 of 1252

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 418381

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	jhill@tenv.com, dmoir@tenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01391901	Routine	R
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	4.0	Temp Blank:	(Yes) No
Received Intact:	(Yes) No	Wet Ice:	(Yes) No
Cooler Custody Seals:	Yes (No) N/A	Thermometer ID	T-NM007
Sample Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
		Total Containers:	7

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
FS62	S	4/8/20	0908	4'	1			
FS63			0911	4'				
FS64			0914	4'				
FS65			0916	4'				
FS66			0920	4'				
SW77			1035	0-4'				
SW78			1145	0-4'				

Work Order Notes

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

Sample Comments

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 Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 : Hg

Note: 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
1			4/8/20 16:22	2			
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.001
Page 16 of 17

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.08.2020 04.22.00 PM

Work Order #: 658381

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 *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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.08.2020

Checklist reviewed by: Jessica Kramer Date: 04.09.2020

Jessica Kramer

Analytical Report 658518

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin 001

012919001

04.10.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.10.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **658518**
Remuda Basin 001
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 XENCO Report Number(s) 658518. 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 XENCO Laboratories. 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. 658518 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 658518

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW79	S	04.09.2020 09:14	0 - 8 ft	658518-001
FS26B	S	04.09.2020 09:40	4 - 6 ft	658518-002
SW80	S	04.09.2020 12:52	0 - 4 ft	658518-003
FS67	S	04.09.2020 12:56	4 ft	658518-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin 001

Project ID: *012919001*
Work Order Number(s): *658518*

Report Date: *04.10.2020*
Date Received: *04.09.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 658518

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin 001

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 04.09.2020 16:08
Report Date: 04.10.2020 14:12
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658518-001		658518-002		658518-003		658518-004					
	Field Id:	SW79		FS26B		SW80		FS67					
	Depth:	0-8 ft		4-6 ft		0-4 ft		4- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	04.09.2020 09:14		04.09.2020 09:40		04.09.2020 12:52		04.09.2020 12:56					
Chloride by EPA 300	***Extracted:***	04.09.2020 16:19		04.09.2020 16:19		04.09.2020 16:19		04.09.2020 16:19					
	Analyzed:	04.09.2020 18:27		04.09.2020 18:44		04.09.2020 18:49		04.09.2020 18:55					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		235	49.9	53.8	50.4	963	50.1	2290	49.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 658518

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW79**	Matrix:	Soil	Date Received:	04.09.2020 16:08
Lab Sample Id:	658518-001	Date Collected:	04.09.2020 09:14	Sample Depth:	0 - 8 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 16:19	Basis:	Wet Weight
Seq Number:	3122585				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**235**	49.9	mg/kg	04.09.2020 18:27		5

Certificate of Analytical Results 658518

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS26B**	Matrix:	Soil	Date Received:	04.09.2020 16:08
Lab Sample Id:	658518-002	Date Collected:	04.09.2020 09:40	Sample Depth:	4 - 6 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 16:19	Basis:	Wet Weight
Seq Number:	3122585				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**53.8**	50.4	mg/kg	04.09.2020 18:44		5

Certificate of Analytical Results 658518

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**SW80**	Matrix:	Soil	Date Received:	04.09.2020 16:08
Lab Sample Id:	658518-003	Date Collected:	04.09.2020 12:52	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 16:19	Basis:	Wet Weight
Seq Number:	3122585				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**963**	50.1	mg/kg	04.09.2020 18:49		5

Certificate of Analytical Results 658518

LT Environmental, Inc., Arvada, CO

Remuda Basin 001

Sample Id:	**FS67**	Matrix:	Soil	Date Received:	04.09.2020 16:08
Lab Sample Id:	658518-004	Date Collected:	04.09.2020 12:56	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.09.2020 16:19	Basis:	Wet Weight
Seq Number:	3122585				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2290**	49.9	mg/kg	04.09.2020 18:55		5

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

QC Summary 658518

LT Environmental, Inc.

Remuda Basin 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122585 Matrix: Solid Date Prep: 04.09.2020
MB Sample Id: 7701005-1-BLK LCS Sample Id: 7701005-1-BKS LCSD Sample Id: 7701005-1-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	256	102	256	102	90-110	0	20	mg/kg	04.09.2020 18:17	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122585 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658518-001 MS Sample Id: 658518-001 S MSD Sample Id: 658518-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	235	200	444	105	444	105	90-110	0	20	mg/kg	04.09.2020 18:33	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3122585 Matrix: Soil Date Prep: 04.09.2020
Parent Sample Id: 658520-005 MS Sample Id: 658520-005 S MSD Sample Id: 658520-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	367	401	776	102	774	102	90-110	0	20	mg/kg	04.09.2020 19:50	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 944 of 1252

Chain of Custody

Work Order No: 605858

XENCO LABORATORIES
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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 001	Turn Around	
Project Number:	01291901	Routine	☐
P.O. Number:	3RD-5135	Rush:	2 day
Sampler's Name:	Jeremy Hill	Due Date:	4/3/20

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	4.0 Day 4.0	Thermometer ID	T-NM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW79	S	4/9/20	0914	0-8'	1			X
FS26B	S		0940	~~0-8'~~	1			X
SW80	S		1252	0-4'	1			X
FS67	S	"	1256	4'	1			X

ANALYSIS REQUEST — TPH (EPA 8015) — N/A; BTEX (EPA 8021) — N/A; Chloride (EPA 300.0) Only

Work Order Notes

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

Sample Comments

FS26B: 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 Tl 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 Tl 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 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
1		4/9/20 1608	2		
3			4		
5			6		

Revised Date 05141B Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 12 of 13

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.09.2020 04.08.00 PM

Work Order #: 658518

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 *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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.09.2020

Checklist reviewed by: Jessica Kramer Date: 04.10.2020

Jessica Kramer

Analytical Report 659112

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

04.17.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.17.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659112**
Remuda Basin #1
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 XENCO Report Number(s) 659112. 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 XENCO Laboratories. 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. 659112 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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Sample Cross Reference 659112

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW19	S	04.15.2020 12:24	0 - 4 ft	659112-001
SW18	S	04.15.2020 16:10	0 - 4 ft	659112-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659112*

Report Date: *04.17.2020*
Date Received: *04.16.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659112

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 04.16.2020 16:35
Report Date: 04.17.2020 14:07
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	659112-001				659112-002							
	Field Id:	SW19				SW18							
	Depth:	0-4 ft				0-4 ft							
	Matrix:	SOIL				SOIL							
	Sampled:	04.15.2020 12:24				04.15.2020 16:10							
Chloride by EPA 300	***Extracted:***	04.16.2020 17:00				04.16.2020 17:00							
	Analyzed:	04.16.2020 18:19				04.16.2020 18:35							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Chloride		654	99.8			575	99.6						

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659112

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW19**	Matrix:	Soil	Date Received:	04.16.2020 16:35
Lab Sample Id:	659112-001	Date Collected:	04.15.2020 12:24	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.16.2020 17:00	Basis:	Wet Weight
Seq Number:	3123313				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**654**	99.8	mg/kg	04.16.2020 18:19		10

Certificate of Analytical Results 659112

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW18**	Matrix:	Soil	Date Received:	04.16.2020 16:35
Lab Sample Id:	659112-002	Date Collected:	04.15.2020 16:10	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.16.2020 17:00	Basis:	Wet Weight
Seq Number:	3123313				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**575**	99.6	mg/kg	04.16.2020 18:35		10

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

QC Summary 659112

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123313 Matrix: Solid Date Prep: 04.16.2020
MB Sample Id: 7701473-1-BLK LCS Sample Id: 7701473-1-BKS LCSD Sample Id: 7701473-1-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	261	104	262	105	90-110	0	20	mg/kg	04.16.2020 18:08	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123313 Matrix: Soil Date Prep: 04.16.2020
Parent Sample Id: 659112-001 MS Sample Id: 659112-001 S MSD Sample Id: 659112-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	654	200	852	99	856	101	90-110	0	20	mg/kg	04.16.2020 18:24	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123313 Matrix: Soil Date Prep: 04.16.2020
Parent Sample Id: 659115-008 MS Sample Id: 659115-008 S MSD Sample Id: 659115-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13600	401	14000	100	14000	100	90-110	0	20	mg/kg	04.16.2020 19:41	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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Chain of Custody

Work Order No: 659112

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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	012919001	Routine ☐	
P.O. Number:	2RP-5135	Rush: 24 hr	
Sampler's Name:	Jeremy Hill	Due Date: 4/17/20	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	3.0	Thermometer ID	
Received Intact:	(Yes) No	TNM007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW19	S	4/15/20	1224	0-4'	1			X
SW18	S	4/15/20	1610	0-4'	1			X

Work Order Notes

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

Sample Comments

Composite
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 Tl 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 Tl 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 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
		4/16/20 16:35	2		
			4		
			6		

Revised Date 05141B Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 10 of 10

Analytical Report 659142

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

04.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.20.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659142**
Remuda Basin #1
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 XENCO Report Number(s) 659142. 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 XENCO Laboratories. 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. 659142 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 659142

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW59	S	04.15.2020 10:14	0 - 4 ft	659142-001
SW58	S	04.15.2020 14:57	0 - 4 ft	659142-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659142*

Report Date: *04.20.2020*
Date Received: *04.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123446 Chloride by EPA 300

Lab Sample ID 659142-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 659142-001, -002.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analysis Summary 659142

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 04.16.2020 16:35
Report Date: 04.20.2020 19:25
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	659142-001		659142-002			
	Field Id:	SW59		SW58			
	Depth:	0-4 ft		0-4 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	04.15.2020 10:14		04.15.2020 14:57			
Chloride by EPA 300	***Extracted:***	04.17.2020 15:40		04.17.2020 15:40			
	Analyzed:	04.17.2020 18:18		04.17.2020 18:38			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		2650 X	198	259	99.8		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659142

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW59**	Matrix:	Soil	Date Received:	04.16.2020 16:35
Lab Sample Id:	659142-001	Date Collected:	04.15.2020 10:14	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.17.2020 15:40	Basis:	Wet Weight
Seq Number:	3123446				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2650**	198	mg/kg	04.17.2020 18:18	X	20

Certificate of Analytical Results 659142

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW58**	Matrix:	Soil	Date Received:	04.16.2020 16:35
Lab Sample Id:	659142-002	Date Collected:	04.15.2020 14:57	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.17.2020 15:40	Basis:	Wet Weight
Seq Number:	3123446				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**259**	99.8	mg/kg	04.17.2020 18:38		10

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

QC Summary 659142

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123446 Matrix: Solid Date Prep: 04.17.2020
MB Sample Id: 7701519-1-BLK LCS Sample Id: 7701519-1-BKS LCSD Sample Id: 7701519-1-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	268	107	266	106	90-110	1	20	mg/kg	04.17.2020 19:55	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123446 Matrix: Soil Date Prep: 04.17.2020
Parent Sample Id: 659142-001 MS Sample Id: 659142-001 S MSD Sample Id: 659142-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2650	200	2840	95	2830	89	90-110	0	20	mg/kg	04.17.2020 18:25	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Final 1.000

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Chain of Custody

Work Order No: 659142

XENCO LABORATORIES

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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	01391901	Routine	✓
P.O. Number:	3RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	3.0	Thermometer ID	TNN007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW59	S	4/15/20	1014	0-4'	1			X
SW58	S	4/15/20	1457	0-4'	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

Comp-Bc
Comp-Bc

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 Tl 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 Tl 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 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
		4/16/20 16:35	2		
			4		
			6		

Revised Date 05/14/18 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 10 of 11

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.16.2020 04.35.00 PM

Work Order #: 659142

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)?	3
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.17.2020

Checklist reviewed by: Jessica Kramer Date: 04.17.2020

Jessica Kramer

Analytical Report 659212

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

04.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.20.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659212**
Remuda Basin #1
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 XENCO Report Number(s) 659212. 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 XENCO Laboratories. 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. 659212 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 659212

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW20	S	04.17.2020 13:22	0 - 4 ft	659212-001
SW65	S	04.17.2020 14:57	0 - 4 ft	659212-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659212*

Report Date: *04.20.2020*
Date Received: *04.17.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659212

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri 04.17.2020 17:00
Report Date: 04.20.2020 13:16
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	659212-001		659212-002			
	Field Id:	SW20		SW65			
	Depth:	0-4 ft		0-4 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	04.17.2020 13:22		04.17.2020 14:57			
Chloride by EPA 300	***Extracted:***	04.17.2020 17:40		04.17.2020 17:40			
	Analyzed:	04.18.2020 12:29		04.18.2020 12:34			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		660	99.8	628	98.8		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659212

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW20**	Matrix:	Soil	Date Received:	04.17.2020 17:00
Lab Sample Id:	659212-001	Date Collected:	04.17.2020 13:22	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.17.2020 17:40	Basis:	Wet Weight
Seq Number:	3123446				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**660**	99.8	mg/kg	04.18.2020 12:29		10

Certificate of Analytical Results 659212

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW65**	Matrix:	Soil	Date Received:	04.17.2020 17:00
Lab Sample Id:	659212-002	Date Collected:	04.17.2020 14:57	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.17.2020 17:40	Basis:	Wet Weight
Seq Number:	3123446				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**628**	98.8	mg/kg	04.18.2020 12:34		10

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

QC Summary 659212

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123446 Matrix: Solid Date Prep: 04.17.2020
MB Sample Id: 7701519-1-BLK LCS Sample Id: 7701519-1-BKS LCSD Sample Id: 7701519-1-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	268	107	266	106	90-110	1	20	mg/kg	04.17.2020 19:55	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123446 Matrix: Soil Date Prep: 04.17.2020
Parent Sample Id: 659142-001 MS Sample Id: 659142-001 S MSD Sample Id: 659142-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2650	200	2840	95	2830	89	90-110	0	20	mg/kg	04.17.2020 18:25	X

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

Chain of Custody

Work Order No: 659212

XENCO LABORATORIES

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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:	Email:	jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Brunch Baja #1	Turn Around	
Project Number:	01891900 1	Routine ☐	
P.O. Number:	3RP-5135	Rush: 24 hr	
Sampler's Name:	Jeremy Hill	Due Date: 4/20/20	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	3.4	Thermometer ID	T-NM-007
Received Intact:	Yes No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes No N/A	Total Containers:	2
Sample Custody Seals:	Yes No N/A		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
SW30	S	4/17/20	1322	0-4'	1			X
SW65	S	4/17/20	1457	0-4'	1			X

Work Order Notes

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

Sample Comments

Composite
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 Tl 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 Tl 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 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
1		4/17/20 1700	2		
3			4		
5			6		

Revised Date 051418 Rev: 20

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.17.2020 05.00.00 PM

Work Order #: 659212

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)?	3.4
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.17.2020

Checklist reviewed by: Jessica Kramer Date: 04.20.2020

Jessica Kramer

Analytical Report 659237

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012918001

04.21.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.21.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659237**
Remuda Basin #1
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 XENCO Report Number(s) 659237. 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 XENCO Laboratories. 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. 659237 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 659237

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS68	S	04.17.2020 15:50	0 - 4 ft	659237-001
FS69	S	04.17.2020 15:53	0 - 4 ft	659237-002
FS70	S	04.17.2020 15:57	0 - 4 ft	659237-003
FS71	S	04.17.2020 16:01	0 - 4 ft	659237-004

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012918001*
Work Order Number(s): *659237*

Report Date: *04.21.2020*
Date Received: *04.20.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659237

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012918001
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.20.2020 08:21
Report Date: 04.21.2020 12:21
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	659237-001		659237-002		659237-003		659237-004					
	Field Id:	FS68		FS69		FS70		FS71					
	Depth:	0-4 ft		0-4 ft		0-4 ft		0-4 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	04.17.2020 15:50		04.17.2020 15:53		04.17.2020 15:57		04.17.2020 16:01					
Chloride by EPA 300	***Extracted:***	04.20.2020 13:20		04.20.2020 13:20		04.20.2020 13:20		04.20.2020 13:20					
	Analyzed:	04.20.2020 17:53		04.20.2020 18:09		04.20.2020 18:14		04.20.2020 18:20					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		326	199	2570	249	754	201	1440	200				

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659237

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS68**	Matrix:	Soil	Date Received:	04.20.2020 08:21
Lab Sample Id:	659237-001	Date Collected:	04.17.2020 15:50	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 13:20	Basis:	Wet Weight
Seq Number:	3123545				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**326**	199	mg/kg	04.20.2020 17:53		20

Certificate of Analytical Results 659237

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS69**	Matrix:	Soil	Date Received:	04.20.2020 08:21
Lab Sample Id:	659237-002	Date Collected:	04.17.2020 15:53	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 13:20	Basis:	Wet Weight
Seq Number:	3123545				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2570**	249	mg/kg	04.20.2020 18:09		20

Certificate of Analytical Results 659237

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS70**	Matrix:	Soil	Date Received:	04.20.2020 08:21
Lab Sample Id:	659237-003	Date Collected:	04.17.2020 15:57	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 13:20	Basis:	Wet Weight
Seq Number:	3123545				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**754**	201	mg/kg	04.20.2020 18:14		20

Certificate of Analytical Results 659237

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**FS71**	Matrix:	Soil	Date Received:	04.20.2020 08:21
Lab Sample Id:	659237-004	Date Collected:	04.17.2020 16:01	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 13:20	Basis:	Wet Weight
Seq Number:	3123545				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1440**	200	mg/kg	04.20.2020 18:20		20

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

QC Summary 659237

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123545 Matrix: Solid Date Prep: 04.20.2020
MB Sample Id: 7701591-1-BLK LCS Sample Id: 7701591-1-BKS LCSD Sample Id: 7701591-1-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	264	106	264	106	90-110	0	20	mg/kg	04.20.2020 15:23	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123545 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659235-001 MS Sample Id: 659235-001 S MSD Sample Id: 659235-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3300	201	3510	104	3520	110	90-110	0	20	mg/kg	04.20.2020 16:07	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123545 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659236-003 MS Sample Id: 659236-003 S MSD Sample Id: 659236-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	88.3	199	302	107	306	108	90-110	1	20	mg/kg	04.20.2020 17:36	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 989 of 1252

Chain of Custody

Work Order No: 459237

XENCO LABORATORIES

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 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	01891800	Routine	☑
P.O. Number:	3RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.6	Thermometer ID	
Received Intact:	Yes No	TNM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	4

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
FS68	S	4-17-24	1550	0-4'	1			X
FS69	S		1553					
FS70	S		1557					
FS71	S		1601					

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		4/20/24 7:00AM	3		042024 821
			4		
			5		

Revised Date 05141 Rev. 2018.1

Received by: OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 12 of 13

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.20.2020 08.21.00 AM

Work Order #: 659237

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)?	1.6
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.20.2020

Checklist reviewed by: Jessica Kramer Date: 04.21.2020

Jessica Kramer

Analytical Report 659315

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

04.21.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.21.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659315**
Remuda Basin #1
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 XENCO Report Number(s) 659315. 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 XENCO Laboratories. 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. 659315 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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Sample Cross Reference 659315

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH13	S	04.20.2020 10:07	0.5 ft	659315-001
PH13A	S	04.20.2020 10:28	4.0 ft	659315-002
PH13B	S	04.20.2020 14:54	9.0 ft	659315-003

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659315*

Report Date: *04.21.2020*
Date Received: *04.20.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659315

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

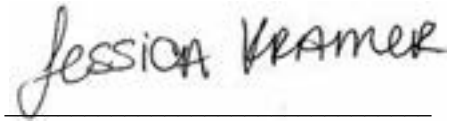
Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.20.2020 16:35
Report Date: 04.21.2020 12:21
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	659315-001		659315-002		659315-003					
	Field Id:	PH13		PH13A		PH13B					
	Depth:	0.5- ft		4.0- ft		9.0- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	04.20.2020 10:07		04.20.2020 10:28		04.20.2020 14:54					
Chloride by EPA 300	***Extracted:***	04.20.2020 17:25		04.20.2020 17:25		04.20.2020 17:25					
	Analyzed:	04.20.2020 23:40		04.20.2020 23:45		04.21.2020 00:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		485	100	180	99.2	69.8	9.98				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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



Jessica Kramer
Project Manager

Certificate of Analytical Results 659315

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH13**	Matrix:	Soil	Date Received:	04.20.2020 16:35
Lab Sample Id:	659315-001	Date Collected:	04.20.2020 10:07	Sample Depth:	0.5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 17:25	Basis:	Wet Weight
Seq Number:	3123548				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**485**	100	mg/kg	04.20.2020 23:40		10

Certificate of Analytical Results 659315

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH13A**	Matrix:	Soil	Date Received:	04.20.2020 16:35
Lab Sample Id:	659315-002	Date Collected:	04.20.2020 10:28	Sample Depth:	4.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 17:25	Basis:	Wet Weight
Seq Number:	3123548				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**180**	99.2	mg/kg	04.20.2020 23:45		10

Certificate of Analytical Results 659315

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**PH13B**	Matrix:	Soil	Date Received:	04.20.2020 16:35
Lab Sample Id:	659315-003	Date Collected:	04.20.2020 14:54	Sample Depth:	9.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.20.2020 17:25	Basis:	Wet Weight
Seq Number:	3123548				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**69.8**	9.98	mg/kg	04.21.2020 00:03		1

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

QC Summary 659315

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123548 Matrix: Solid Date Prep: 04.20.2020
MB Sample Id: 7701627-1-BLK LCS Sample Id: 7701627-1-BKS LCSD Sample Id: 7701627-1-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	300	278	93	279	93	90-110	0	20	mg/kg	04.20.2020 22:11	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123548 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659293-001 MS Sample Id: 659293-001 S MSD Sample Id: 659293-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	62.9	200	266	102	269	103	90-110	1	20	mg/kg	04.20.2020 22:29	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123548 Matrix: Soil Date Prep: 04.20.2020
Parent Sample Id: 659315-002 MS Sample Id: 659315-002 S MSD Sample Id: 659315-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	180	199	368	94	378	99	90-110	3	20	mg/kg	04.20.2020 23:51	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 1001 of 1252

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 659315

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Rommel Boss #1	Turn Around	
Project Number:	612917001	Routine	✓
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	3.6	Thermometer ID	TNM007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	3	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
PH13	S	4/10/20	1007	0.5'	1			X
PH13A	S	"	1038	4.0'	1			X
PH13B	S	"	1454	9.0'	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl 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 Tl 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 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
		4/20/20 16:35	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Page 11 of 12
Final 1.000
Released to Imaging: 4/14/2026 8:09:55 AM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.20.2020 04.35.00 PM

Work Order #: 659315

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

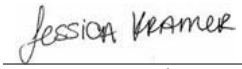
Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Date: 04.20.2020

Elizabeth McClellan

Checklist reviewed by:  Date: 04.21.2020

Jessica Kramer

Analytical Report 659426

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

04.22.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.22.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659426**
Remuda Basin #1
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 XENCO Report Number(s) 659426. 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 XENCO Laboratories. 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. 659426 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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

Sample Cross Reference 659426

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW71	S	04.21.2020 09:57	0 - 4 ft	659426-001
SW72	S	04.21.2020 10:01	0 - 4 ft	659426-002

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659426*

Report Date: *04.22.2020*
Date Received: *04.21.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659426

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 04.21.2020 16:50
Report Date: 04.22.2020 13:33
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	659426-001	659426-002				
	Field Id:	SW71	SW72				
	Depth:	0-4 ft	0-4 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	04.21.2020 09:57	04.21.2020 10:01				
Chloride by EPA 300	***Extracted:***	04.21.2020 17:21	04.21.2020 17:21				
	Analyzed:	04.21.2020 21:04	04.21.2020 21:10				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		221 49.7	387 49.8				

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XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659426

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW71**	Matrix:	Soil	Date Received:	04.21.2020 16:50
Lab Sample Id:	659426-001	Date Collected:	04.21.2020 09:57	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.21.2020 17:21	Basis:	Wet Weight
Seq Number:	3123703				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**221**	49.7	mg/kg	04.21.2020 21:04		5

Certificate of Analytical Results 659426

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW72**	Matrix:	Soil	Date Received:	04.21.2020 16:50
Lab Sample Id:	659426-002	Date Collected:	04.21.2020 10:01	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.21.2020 17:21	Basis:	Wet Weight
Seq Number:	3123703				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**387**	49.8	mg/kg	04.21.2020 21:10		5

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

QC Summary 659426

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123703 Matrix: Solid Date Prep: 04.21.2020
MB Sample Id: 7701741-1-BLK LCS Sample Id: 7701741-1-BKS LCSD Sample Id: 7701741-1-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	255	102	255	102	90-110	0	20	mg/kg	04.21.2020 19:42	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123703 Matrix: Soil Date Prep: 04.21.2020
Parent Sample Id: 659422-001 MS Sample Id: 659422-001 S MSD Sample Id: 659422-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	56.1	200	263	103	261	102	90-110	1	20	mg/kg	04.21.2020 19:58	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3123703 Matrix: Soil Date Prep: 04.21.2020
Parent Sample Id: 659426-002 MS Sample Id: 659426-002 S MSD Sample Id: 659426-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	387	200	584	99	582	98	90-110	0	20	mg/kg	04.21.2020 21:15	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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Chain of Custody

XENCO LABORATORIES
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

Work Order No: 659426

Page 1 of

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		jhill@tenv.com, dmoir@tenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Reanda Bass #1	Turn Around	
Project Number:	01891900	Routine	☐
P.O. Number:	2RP 5135	Rush:	48hr
Sampler's Name:	Jeremy Hill	Due Date:	4/23/20

SAMPLE RECEIPT				
Temperature (°C):	3.2	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID		T-NM-007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:		-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:		2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SW71	S	4/21/20	0957	0-4'	1			X
SW72	S	4/21/20	1001	0-4'	1			X

Work Order Notes

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

Sample Comments

Composite
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 Tl 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 Tl 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 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
		4/21/20 16:50	3		
			4		
			5		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Final 1.000
Page 10 of 10
Released to Imaging: 4/14/2026 8:09:55 AM

Analytical Report 659890

for

LT Environmental, Inc.

Project Manager: Dan Moir

remuda Basin #1

012919001

04.28.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Released to Imaging: 4/14/2026 8:09:55 AM

04.28.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **659890**
remuda Basin #1
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 XENCO Report Number(s) 659890. 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 XENCO Laboratories. 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. 659890 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH14	S	04.21.2020 11:20	2.0 ft	659890-001
PH14A	S	04.21.2020 11:22	4.0 ft	659890-002
PH14B	S	04.21.2020 14:15	16.0 ft	659890-003
PH15	S	04.21.2020 14:43	0.5 ft	659890-004
PH15A	S	04.21.2020 15:01	4.0 ft	659890-005

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *659890*

Report Date: *04.28.2020*
Date Received: *04.27.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659890

LT Environmental, Inc., Arvada, CO

Project Name: remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 04.27.2020 16:10
Report Date: 04.28.2020 11:23
Project Manager: Jessica Kramer

Analysis Requested												
	Lab Id:	659890-001		659890-002		659890-003		659890-004		659890-005		
	Field Id:	PH14		PH14A		PH14B		PH15		PH15A		
	Depth:	2.0- ft		4.0- ft		16.0- ft		0.5- ft		4.0- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	04.21.2020 11:20		04.21.2020 11:22		04.21.2020 14:15		04.21.2020 14:43		04.21.2020 15:01		
Chloride by EPA 300	***Extracted:***	04.27.2020 17:04		04.27.2020 17:04		04.27.2020 17:04		04.27.2020 17:04		04.27.2020 17:04		
	Analyzed:	04.27.2020 17:48		04.27.2020 17:54		04.27.2020 18:10		04.27.2020 18:16		04.27.2020 18:32		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		390	49.9	330	50.0	62.6	49.9	301	49.9	116	49.8	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Certificate of Analytical Results 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id:	**PH14**	Matrix:	Soil	Date Received:	04.27.2020 16:10
Lab Sample Id:	659890-001	Date Collected:	04.21.2020 11:20	Sample Depth:	2.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.27.2020 17:04	Basis:	Wet Weight
Seq Number:	3124306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**390**	49.9	mg/kg	04.27.2020 17:48		5

Certificate of Analytical Results 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id:	**PH14A**	Matrix:	Soil	Date Received:	04.27.2020 16:10
Lab Sample Id:	659890-002	Date Collected:	04.21.2020 11:22	Sample Depth:	4.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.27.2020 17:04	Basis:	Wet Weight
Seq Number:	3124306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**330**	50.0	mg/kg	04.27.2020 17:54		5

Certificate of Analytical Results 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id:	**PH14B**	Matrix:	Soil	Date Received:	04.27.2020 16:10
Lab Sample Id:	659890-003	Date Collected:	04.21.2020 14:15	Sample Depth:	16.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.27.2020 17:04	Basis:	Wet Weight
Seq Number:	3124306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.6**	49.9	mg/kg	04.27.2020 18:10		5

Certificate of Analytical Results 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id:	**PH15**	Matrix:	Soil	Date Received:	04.27.2020 16:10
Lab Sample Id:	659890-004	Date Collected:	04.21.2020 14:43	Sample Depth:	0.5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.27.2020 17:04	Basis:	Wet Weight
Seq Number:	3124306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**301**	49.9	mg/kg	04.27.2020 18:16		5

Certificate of Analytical Results 659890

LT Environmental, Inc., Arvada, CO

remuda Basin #1

Sample Id:	**PH15A**	Matrix:	Soil	Date Received:	04.27.2020 16:10
Lab Sample Id:	659890-005	Date Collected:	04.21.2020 15:01	Sample Depth:	4.0 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	04.27.2020 17:04	Basis:	Wet Weight
Seq Number:	3124306				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**116**	49.8	mg/kg	04.27.2020 18:32		5

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

QC Summary 659890

LT Environmental, Inc.

remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3124306 Matrix: Solid Date Prep: 04.27.2020
MB Sample Id: 7702149-1-BLK LCS Sample Id: 7702149-1-BKS LCSD Sample Id: 7702149-1-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	250	100	250	100	90-110	0	20	mg/kg	04.27.2020 16:26	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3124306 Matrix: Soil Date Prep: 04.27.2020
Parent Sample Id: 659876-001 MS Sample Id: 659876-001 S MSD Sample Id: 659876-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1230	201	1410	90	1420	95	90-110	1	20	mg/kg	04.27.2020 16:43	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3124306 Matrix: Soil Date Prep: 04.27.2020
Parent Sample Id: 659890-002 MS Sample Id: 659890-002 S MSD Sample Id: 659890-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	330	199	548	110	548	110	90-110	0	20	mg/kg	04.27.2020 17:59	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 1025 of 1252

Chain of Custody

Work Order No: 605980

XENCO LABORATORIES

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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 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:	Email:	Jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Round Bison #1	Turn Around	
Project Number:	01391901	Routine	✓
P.O. Number:	2RP-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.9	Thermometer ID	T-NM-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	5	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
PH14	S	4/21/20	1120	2.0'	1			X	discrete
PH14A		4/21/20	1123	4.0'	1				
PH14B		4/21/20	1415	16.0'	1				
PH15		4/21/20	1443	0.5'	1				
PH15A	↓	4/21/20	1501	4.0'	↓			↓	↓

Work Order Notes

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

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 Tl 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 Tl 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 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
		4/29/20 10:10	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Final 1.000
Page 13 of 14

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.27.2020 04.10.00 PM

Work Order #: 659890

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)?	2.8
#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**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 04.27.2020

Checklist reviewed by: Jessica Kramer Date: 04.28.2020

Jessica Kramer

Certificate of Analysis Summary 660932

LT Environmental, Inc., Arvada, CO

Project Name: Remuda Basin #1

Project Id: 012919001
Contact: Dan Moir
Project Location:

Date Received in Lab: Thu 05.07.2020 12:09
Report Date: 05.08.2020 12:55
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	660932-001					
	Field Id:	SW62					
	Depth:	0-4 ft					
	Matrix:	SOIL					
	Sampled:	05.07.2020 10:53					
Chloride by EPA 300	***Extracted:***	05.07.2020 16:42					
	Analyzed:	05.07.2020 21:07					
	Units/RL:	mg/kg	RL				
Chloride		5910	100				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer
Project Manager

Analytical Report 660932

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda Basin #1

012919001

05.08.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

05.08.2020

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **660932**
Remuda Basin #1
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 XENCO Report Number(s) 660932. 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 XENCO Laboratories. 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. 660932 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 XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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 660932

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW62	S	05.07.2020 10:53	0 - 4 ft	660932-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Remuda Basin #1

Project ID: *012919001*
Work Order Number(s): *660932*

Report Date: *05.08.2020*
Date Received: *05.07.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 660932

LT Environmental, Inc., Arvada, CO

Remuda Basin #1

Sample Id:	**SW62**	Matrix:	Soil	Date Received:	05.07.2020 12:09
Lab Sample Id:	660932-001	Date Collected:	05.07.2020 10:53	Sample Depth:	0 - 4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	05.07.2020 16:42	Basis:	Wet Weight
Seq Number:	3125427				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5910**	100	mg/kg	05.07.2020 21:07		10

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

QC Summary 660932

LT Environmental, Inc.

Remuda Basin #1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3125427 Matrix: Solid Date Prep: 05.07.2020
MB Sample Id: 7702952-1-BLK LCS Sample Id: 7702952-1-BKS LCSD Sample Id: 7702952-1-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	252	101	90-110	0	20	mg/kg	05.07.2020 18:52	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3125427 Matrix: Soil Date Prep: 05.07.2020
Parent Sample Id: 660927-007 MS Sample Id: 660927-007 S MSD Sample Id: 660927-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	106	200	320	107	322	108	90-110	1	20	mg/kg	05.07.2020 19:10	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3125427 Matrix: Soil Date Prep: 05.07.2020
Parent Sample Id: 660930-001 MS Sample Id: 660930-001 S MSD Sample Id: 660930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	220	201	422	100	423	101	90-110	0	20	mg/kg	05.07.2020 20:26	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

Page 1035 of 1252

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: 660932

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	522 W. Mermod St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	jhill@ltenv.com, dmoir@ltenv.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Round Bear #1	Turn Around	
Project Number:	01391900l	Routine	✓
P.O. Number:	22P-5135	Rush:	
Sampler's Name:	Jeremy Hill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.0	Thermometer ID		
Received Intact:	(Yes) No	T-NM-007		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0) Only
SW62	S	5/7/20	1053	0-4'	1			X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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 Tl 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 Tl 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 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
		5/7/20 12:09	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 12/11/2025 7:09:27 AM
Released to Imaging: 4/14/2026 8:09:55 AM
Page 9 of 10
Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.07.2020 12.09.00 PM

Work Order #: 660932

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

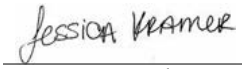
Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and 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**	Sample received in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Date: 05.07.2020

Elizabeth McClellan

Checklist reviewed by:  Date: 05.08.2020

Jessica Kramer

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2303-1
Laboratory Sample Delivery Group: 03C1558003
Client Project/Site: Remuda Bain #001

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
5/18/2022 12:28:07 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS
Review your project results through myEOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

Client: Ensolum
Project/Site: Remuda Bain #001

Laboratory Job ID: 890-2303-1
SDG: 03C1558003

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Job ID: 890-2303-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2303-1

Receipt
The samples were received on 5/12/2022 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25638 and analytical batch 880-25671 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25540 and analytical batch 880-25678 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH02

Lab Sample ID: 890-2303-1
Matrix: Solid
Date Collected: 05/11/22 12:30
Date Received: 05/12/22 11:01
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F2 F1	0.00201		mg/Kg		05/16/22 13:46	05/17/22 12:55	1
Toluene	<0.00201	U F2 F1	0.00201		mg/Kg		05/16/22 13:46	05/17/22 12:55	1
Ethylbenzene	<0.00201	U F2 F1	0.00201		mg/Kg		05/16/22 13:46	05/17/22 12:55	1
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.00402		mg/Kg		05/16/22 13:46	05/17/22 12:55	1
o-Xylene	<0.00201	U F2 F1	0.00201		mg/Kg		05/16/22 13:46	05/17/22 12:55	1
Xylenes, Total	<0.00402	U F2 F1	0.00402		mg/Kg		05/16/22 13:46	05/17/22 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/16/22 13:46*	*05/17/22 12:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/16/22 13:46*	*05/17/22 12:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/22 10:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/16/22 08:37*	*05/16/22 12:19*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/16/22 08:37*	*05/16/22 12:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		5.04		mg/Kg			05/17/22 15:40	1

Client Sample ID: PH02

Lab Sample ID: 890-2303-2
Matrix: Solid
Date Collected: 05/11/22 12:40
Date Received: 05/12/22 11:01
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/16/22 13:46	05/17/22 13:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/22 13:46	05/17/22 13:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/22 13:46	05/17/22 13:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/22 13:46	05/17/22 13:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/22 13:46	05/17/22 13:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/22 13:46	05/17/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH02

Lab Sample ID: 890-2303-2
Matrix: Solid
Date Collected: 05/11/22 12:40
Date Received: 05/12/22 11:01
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/17/22 10:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/16/22 08:37	05/16/22 13:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/16/22 08:37	05/16/22 13:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/22 08:37	05/16/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/16/22 08:37*	*05/16/22 13:24*	*1*
o-Terphenyl	*106*		*70 - 130*	*05/16/22 08:37*	*05/16/22 13:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**701**		4.98	mg/Kg			05/17/22 16:00	1

Client Sample ID: PH03

Lab Sample ID: 890-2303-3
Matrix: Solid
Date Collected: 05/11/22 13:15
Date Received: 05/12/22 11:01
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 13:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 13:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 13:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/16/22 13:46	05/17/22 13:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 13:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/16/22 13:46	05/17/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:36*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/17/22 10:03	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH03

Lab Sample ID: 890-2303-3
Matrix: Solid
Date Collected: 05/11/22 13:15
Date Received: 05/12/22 11:01
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 13:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/16/22 08:37*	*05/16/22 13:46*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/16/22 08:37*	*05/16/22 13:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**207**		4.99		mg/Kg			05/17/22 16:06	1

Client Sample ID: PH03

Lab Sample ID: 890-2303-4
Matrix: Solid
Date Collected: 05/11/22 13:20
Date Received: 05/12/22 11:01
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 13:57	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 13:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 13:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/16/22 13:46	05/17/22 13:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 13:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/16/22 13:46	05/17/22 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/16/22 13:46*	*05/17/22 13:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/22 10:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:07*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH03

Lab Sample ID: 890-2303-4
Matrix: Solid
Date Collected: 05/11/22 13:20
Date Received: 05/12/22 11:01
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.8		5.00		mg/Kg			05/17/22 16:12	1

Client Sample ID: PH01

Lab Sample ID: 890-2303-5
Matrix: Solid
Date Collected: 05/11/22 15:50
Date Received: 05/12/22 11:01
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 14:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 13:46	05/17/22 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 14:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/22 13:46	05/17/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/16/22 13:46*	*05/17/22 14:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/16/22 13:46*	*05/17/22 14:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/22 10:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 14:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 14:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:29*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.98		mg/Kg			05/17/22 16:53	1

Client Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH01

Date Collected: 05/11/22 15:55
Date Received: 05/12/22 11:01
Sample Depth: 4

Lab Sample ID: 890-2303-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 14:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 14:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 14:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/16/22 13:46	05/17/22 14:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/16/22 13:46	05/17/22 14:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/16/22 13:46	05/17/22 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/16/22 13:46*	*05/17/22 14:38*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/16/22 13:46*	*05/17/22 14:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/17/22 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/22 10:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/16/22 08:37	05/16/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:50*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/16/22 08:37*	*05/16/22 14:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.6**		4.95		mg/Kg			05/17/22 16:21	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2303-1	PH02	111	95
890-2303-1 MS	PH02	110	96
890-2303-1 MSD	PH02	104	93
890-2303-2	PH02	106	96
890-2303-3	PH03	105	97
890-2303-4	PH03	103	96
890-2303-5	PH01	107	97
890-2303-6	PH01	108	96
LCS 880-25638/1-A	Lab Control Sample	105	96
LCSD 880-25638/2-A	Lab Control Sample Dup	105	95
MB 880-25638/5-A	Method Blank	102	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2303-1	PH02	98	100
890-2303-1 MS	PH02	94	85
890-2303-1 MSD	PH02	94	85
890-2303-2	PH02	104	106
890-2303-3	PH03	111	113
890-2303-4	PH03	96	97
890-2303-5	PH01	99	103
890-2303-6	PH01	100	102
LCS 880-25589/2-A	Lab Control Sample	98	97
LCSD 880-25589/3-A	Lab Control Sample Dup	108	106
MB 880-25589/1-A	Method Blank	96	97

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25638/5-A
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25638

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 13:46	05/17/22 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/22 13:46	05/17/22 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/16/22 13:46*	*05/17/22 12:34*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/16/22 13:46*	*05/17/22 12:34*	*1*

Lab Sample ID: LCS 880-25638/1-A
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25638

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1010		mg/Kg		101	70 - 130		
Toluene			0.100	0.1123		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1158		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene			0.200	0.2346		mg/Kg		117	70 - 130		
o-Xylene			0.100	0.1168		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-25638/2-A
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25638

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09697		mg/Kg		97	70 - 130	4	35
Toluene			0.100	0.1065		mg/Kg		106	70 - 130	5	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2249		mg/Kg		112	70 - 130	4	35
o-Xylene			0.100	0.1119		mg/Kg		112	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-2303-1 MS
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 25638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F2 F1	0.101	0.06816	F1	mg/Kg		67	70 - 130		
Toluene	<0.00201	U F2 F1	0.101	0.07512		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

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

Lab Sample ID: 890-2303-1 MS
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 25638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F2 F1	0.101	0.07397		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.202	0.1496		mg/Kg		74	70 - 130
o-Xylene	<0.00201	U F2 F1	0.101	0.07506		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2303-1 MSD
Matrix: Solid
Analysis Batch: 25671

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 25638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F2 F1	0.100	0.07943		mg/Kg		79	70 - 130	15	35
Toluene	<0.00201	U F2 F1	0.100	0.08921		mg/Kg		89	70 - 130	17	35
Ethylbenzene	<0.00201	U F2 F1	0.100	0.09057		mg/Kg		90	70 - 130	20	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.1847		mg/Kg		92	70 - 130	21	35
o-Xylene	<0.00201	U F2 F1	0.100	0.09235		mg/Kg		92	70 - 130	21	35

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

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

Lab Sample ID: MB 880-25589/1-A
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25589

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 11:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 11:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/22 08:37	05/16/22 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/16/22 08:37*	*05/16/22 11:16*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/16/22 08:37*	*05/16/22 11:16*	*1*

Lab Sample ID: LCS 880-25589/2-A
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	860.9		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)			1000	928.2		mg/Kg		93	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

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

Lab Sample ID: LCS 880-25589/2-A
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25589

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-25589/3-A
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25589

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	969.2		mg/Kg		97	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1020		mg/Kg		102	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-2303-1 MS
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 25589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	912.0		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1022		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-2303-1 MSD
Matrix: Solid
Analysis Batch: 25584

Client Sample ID: PH02
Prep Type: Total/NA
Prep Batch: 25589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	928.3		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1022		mg/Kg		102	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25540/1-A
Matrix: Solid
Analysis Batch: 25678

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/17/22 13:27	1

Lab Sample ID: LCS 880-25540/2-A
Matrix: Solid
Analysis Batch: 25678

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	256.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-25540/3-A
Matrix: Solid
Analysis Batch: 25678

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	273.7		mg/Kg		109	90 - 110	7	20

Lab Sample ID: 890-2302-A-5-C MS
Matrix: Solid
Analysis Batch: 25678

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	71.2	F1	248	357.6	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 890-2302-A-5-D MSD
Matrix: Solid
Analysis Batch: 25678

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71.2	F1	248	305.5		mg/Kg		95	90 - 110	16	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

GC VOA

Prep Batch: 25638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	5035	
890-2303-2	PH02	Total/NA	Solid	5035	
890-2303-3	PH03	Total/NA	Solid	5035	
890-2303-4	PH03	Total/NA	Solid	5035	
890-2303-5	PH01	Total/NA	Solid	5035	
890-2303-6	PH01	Total/NA	Solid	5035	
MB 880-25638/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25638/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25638/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2303-1 MS	PH02	Total/NA	Solid	5035	
890-2303-1 MSD	PH02	Total/NA	Solid	5035	

Analysis Batch: 25671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	8021B	25638
890-2303-2	PH02	Total/NA	Solid	8021B	25638
890-2303-3	PH03	Total/NA	Solid	8021B	25638
890-2303-4	PH03	Total/NA	Solid	8021B	25638
890-2303-5	PH01	Total/NA	Solid	8021B	25638
890-2303-6	PH01	Total/NA	Solid	8021B	25638
MB 880-25638/5-A	Method Blank	Total/NA	Solid	8021B	25638
LCS 880-25638/1-A	Lab Control Sample	Total/NA	Solid	8021B	25638
LCSD 880-25638/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25638
890-2303-1 MS	PH02	Total/NA	Solid	8021B	25638
890-2303-1 MSD	PH02	Total/NA	Solid	8021B	25638

Analysis Batch: 25764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	Total BTEX	
890-2303-2	PH02	Total/NA	Solid	Total BTEX	
890-2303-3	PH03	Total/NA	Solid	Total BTEX	
890-2303-4	PH03	Total/NA	Solid	Total BTEX	
890-2303-5	PH01	Total/NA	Solid	Total BTEX	
890-2303-6	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	8015B NM	25589
890-2303-2	PH02	Total/NA	Solid	8015B NM	25589
890-2303-3	PH03	Total/NA	Solid	8015B NM	25589
890-2303-4	PH03	Total/NA	Solid	8015B NM	25589
890-2303-5	PH01	Total/NA	Solid	8015B NM	25589
890-2303-6	PH01	Total/NA	Solid	8015B NM	25589
MB 880-25589/1-A	Method Blank	Total/NA	Solid	8015B NM	25589
LCS 880-25589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25589
LCSD 880-25589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25589
890-2303-1 MS	PH02	Total/NA	Solid	8015B NM	25589
890-2303-1 MSD	PH02	Total/NA	Solid	8015B NM	25589

QC Association Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

GC Semi VOA

Prep Batch: 25589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	8015NM Prep	
890-2303-2	PH02	Total/NA	Solid	8015NM Prep	
890-2303-3	PH03	Total/NA	Solid	8015NM Prep	
890-2303-4	PH03	Total/NA	Solid	8015NM Prep	
890-2303-5	PH01	Total/NA	Solid	8015NM Prep	
890-2303-6	PH01	Total/NA	Solid	8015NM Prep	
MB 880-25589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2303-1 MS	PH02	Total/NA	Solid	8015NM Prep	
890-2303-1 MSD	PH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Total/NA	Solid	8015 NM	
890-2303-2	PH02	Total/NA	Solid	8015 NM	
890-2303-3	PH03	Total/NA	Solid	8015 NM	
890-2303-4	PH03	Total/NA	Solid	8015 NM	
890-2303-5	PH01	Total/NA	Solid	8015 NM	
890-2303-6	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Soluble	Solid	DI Leach	
890-2303-2	PH02	Soluble	Solid	DI Leach	
890-2303-3	PH03	Soluble	Solid	DI Leach	
890-2303-4	PH03	Soluble	Solid	DI Leach	
890-2303-5	PH01	Soluble	Solid	DI Leach	
890-2303-6	PH01	Soluble	Solid	DI Leach	
MB 880-25540/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25540/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25540/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2302-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2302-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2303-1	PH02	Soluble	Solid	300.0	25540
890-2303-2	PH02	Soluble	Solid	300.0	25540
890-2303-3	PH03	Soluble	Solid	300.0	25540
890-2303-4	PH03	Soluble	Solid	300.0	25540
890-2303-5	PH01	Soluble	Solid	300.0	25540
890-2303-6	PH01	Soluble	Solid	300.0	25540
MB 880-25540/1-A	Method Blank	Soluble	Solid	300.0	25540
LCS 880-25540/2-A	Lab Control Sample	Soluble	Solid	300.0	25540
LCSD 880-25540/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25540
890-2302-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	25540
890-2302-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25540

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH02
Date Collected: 05/11/22 12:30
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 12:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 12:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 15:40	CH	XEN MID

Client Sample ID: PH02
Date Collected: 05/11/22 12:40
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 16:00	CH	XEN MID

Client Sample ID: PH03
Date Collected: 05/11/22 13:15
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 13:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 16:06	CH	XEN MID

Client Sample ID: PH03
Date Collected: 05/11/22 13:20
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 13:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Client Sample ID: PH03

Date Collected: 05/11/22 13:20
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 14:07	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 16:12	CH	XEN MID

Client Sample ID: PH01

Date Collected: 05/11/22 15:50
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 14:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 14:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 16:53	CH	XEN MID

Client Sample ID: PH01

Date Collected: 05/11/22 15:55
Date Received: 05/12/22 11:01

Lab Sample ID: 890-2303-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25638	05/16/22 13:46	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/17/22 14:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25764	05/17/22 17:09	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25687	05/17/22 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25589	05/16/22 08:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25584	05/16/22 14:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25540	05/13/22 12:13	SC	XEN MID
Soluble	Analysis	300.0		1			25678	05/17/22 16:21	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Bain #001

Job ID: 890-2303-1
SDG: 03C1558003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2303-1	PH02	Solid	05/11/22 12:30	05/12/22 11:01	0.5
890-2303-2	PH02	Solid	05/11/22 12:40	05/12/22 11:01	4
890-2303-3	PH03	Solid	05/11/22 13:15	05/12/22 11:01	2
890-2303-4	PH03	Solid	05/11/22 13:20	05/12/22 11:01	4
890-2303-5	PH01	Solid	05/11/22 15:50	05/12/22 11:01	2
890-2303-6	PH01	Solid	05/11/22 15:55	05/12/22 11:01	4

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	TACOMA MORRISSEY	Bill to: (if different)	ADRIAN BAKER
Company Name:	ENSOLUM LLC	Company Name:	XTO ENERGY
Address:	601 N MARIENFELD ST. SUITE 400	Address:	3104 E. GREEN ST.
City, State ZIP:	MIDLAND TX, 79701	City, State ZIP:	Carlsbad NM, 88220
Phone:	337.257.8307	Email:	tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #002	Turn Around	
Project Number:	03C1558003	☒ Routine ☐ Rush	
Project Location:	CC: 167441 81001	Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM-003	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.6	
Total Containers:		Corrected Temperature:	5.8	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST

890-2303 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	BTEX	TPH	Sample Comments
~~PH05~~ PH02	S	05/11	1230	0.5	G	1		X	X	X	AFE: EW.2019.
~~PH05~~ PH02	S	05/11	1240	4'	G	1		X	X	X	08149 - EXP.01
PH03	S	05/11	1315	2'	G	1		X	X	X	
PH03	S	05/11	1320	4'	G	1		X	X	X	
PH01	S	05/11	1550	2'	G	1		X	X	X	
PH01	S	05/11	1555	4'	G	1		X	X	X	
CS											

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1	Clue Chp	5.12.22 1107	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2303-1
SDG Number: 03C1558003

Login Number: 2303
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2303-1
SDG Number: 03C1558003

Login Number: 2303
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 05/13/22 10:37 AM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2423-1
Laboratory Sample Delivery Group: Eddy County NM
Client Project/Site: Remuda Basin #1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
6/21/2022 3:53:18 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

LINKS
Review your project results through my EOL
Have a Question? Ask The Expert
Visit us at: www.eurofinsus.com/Env

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

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

Client: Ensolum
Project/Site: Remuda Basin #1

Laboratory Job ID: 890-2423-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Ensolum Job ID: 890-2423-1
Project/Site: Remuda Basin #1 SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Job ID: 890-2423-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2423-1

Receipt
The samples were received on 6/16/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.6°C

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-27899 and analytical batch 880-27896 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH05 (890-2423-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-27921 and analytical batch 880-27893 contained Gasoline Range Organics (GRO)-C6-C10 and Total TPH above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-27807 and analytical batch 880-28016 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH04

Date Collected: 06/16/22 11:00
Date Received: 06/16/22 15:27
Sample Depth: 2'

Lab Sample ID: 890-2423-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		06/20/22 11:18	06/20/22 16:40	1
Toluene	**0.00109**	**J F1**	0.00202	0.000461	mg/Kg		06/20/22 11:18	06/20/22 16:40	1
Ethylbenzene	**0.000748**	**J F1**	0.00202	0.000571	mg/Kg		06/20/22 11:18	06/20/22 16:40	1
m-Xylene & p-Xylene	**0.00177**	**J F1**	0.00404	0.00102	mg/Kg		06/20/22 11:18	06/20/22 16:40	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		06/20/22 11:18	06/20/22 16:40	1
Xylenes, Total	**0.00177**	**J F1**	0.00404	0.00102	mg/Kg		06/20/22 11:18	06/20/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/20/22 11:18*	*06/20/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/20/22 11:18*	*06/20/22 16:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00361**	**J**	0.00404	0.00102	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**82.1**		49.8	14.9	mg/Kg			06/21/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**37.7**	**J B**	49.8	14.9	mg/Kg		06/20/22 13:49	06/21/22 01:59	1
Diesel Range Organics (Over C10-C28)	**44.4**	**J**	49.8	14.9	mg/Kg		06/20/22 13:49	06/21/22 01:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		06/20/22 13:49	06/21/22 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*06/20/22 13:49*	*06/21/22 01:59*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/20/22 13:49*	*06/21/22 01:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.03	0.863	mg/Kg			06/21/22 10:56	1

Client Sample ID: PH04A

Date Collected: 06/16/22 11:10
Date Received: 06/16/22 15:27
Sample Depth: 4'

Lab Sample ID: 890-2423-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		06/20/22 11:18	06/20/22 17:21	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		06/20/22 11:18	06/20/22 17:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		06/20/22 11:18	06/20/22 17:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		06/20/22 11:18	06/20/22 17:21	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		06/20/22 11:18	06/20/22 17:21	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		06/20/22 11:18	06/20/22 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/20/22 11:18*	*06/20/22 17:21*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH04A

Lab Sample ID: 890-2423-2
Matrix: Solid
Date Collected: 06/16/22 11:10
Date Received: 06/16/22 15:27
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/20/22 11:18*	*06/20/22 17:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.7**		50.0	15.0	mg/Kg			06/21/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**30.9**	**J B**	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:19	1
Diesel Range Organics (Over C10-C28)	**36.8**	**J**	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*06/20/22 13:49*	*06/21/22 02:19*	*1*
o-Terphenyl	*120*		*70 - 130*	*06/20/22 13:49*	*06/21/22 02:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**403**		4.99	0.857	mg/Kg			06/21/22 09:58	1

Client Sample ID: PH05

Lab Sample ID: 890-2423-3
Matrix: Solid
Date Collected: 06/16/22 12:05
Date Received: 06/16/22 15:27
Sample Depth: 2'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/20/22 11:18	06/20/22 17:41	1
Toluene	**0.000853**	**J**	0.00200	0.000456	mg/Kg		06/20/22 11:18	06/20/22 17:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/20/22 11:18	06/20/22 17:41	1
m-Xylene & p-Xylene	**0.00155**	**J**	0.00400	0.00101	mg/Kg		06/20/22 11:18	06/20/22 17:41	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/20/22 11:18	06/20/22 17:41	1
Xylenes, Total	**0.00155**	**J**	0.00400	0.00101	mg/Kg		06/20/22 11:18	06/20/22 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/20/22 11:18*	*06/20/22 17:41*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/20/22 11:18*	*06/20/22 17:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00240**	**J**	0.00400	0.00101	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**70.4**		49.9	15.0	mg/Kg			06/21/22 14:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH05

Date Collected: 06/16/22 12:05
Date Received: 06/16/22 15:27
Sample Depth: 2'

Lab Sample ID: 890-2423-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.2	J B	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:39	1
Diesel Range Organics (Over C10-C28)	37.2	J	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*06/20/22 13:49*	*06/21/22 02:39*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*06/20/22 13:49*	*06/21/22 02:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		5.00	0.858	mg/Kg			06/21/22 11:04	1

Client Sample ID: PH05A

Date Collected: 06/16/22 12:10
Date Received: 06/16/22 15:27
Sample Depth: 4'

Lab Sample ID: 890-2423-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		06/20/22 11:18	06/20/22 18:01	1
Toluene	0.000921	J	0.00199	0.000453	mg/Kg		06/20/22 11:18	06/20/22 18:01	1
Ethylbenzene	0.000676	J	0.00199	0.000562	mg/Kg		06/20/22 11:18	06/20/22 18:01	1
m-Xylene & p-Xylene	0.00213	J	0.00398	0.00100	mg/Kg		06/20/22 11:18	06/20/22 18:01	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		06/20/22 11:18	06/20/22 18:01	1
Xylenes, Total	0.00213	J	0.00398	0.00100	mg/Kg		06/20/22 11:18	06/20/22 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00373	J	0.00398	0.00100	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.6		50.0	15.0	mg/Kg			06/21/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.6	J B	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:59	1
Diesel Range Organics (Over C10-C28)	42.0	J	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*06/20/22 13:49*	*06/21/22 02:59*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/20/22 13:49*	*06/21/22 02:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH05A

Lab Sample ID: 890-2423-4
Matrix: Solid
Date Collected: 06/16/22 12:10
Date Received: 06/16/22 15:27
Sample Depth: 4'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		4.97	0.853	mg/Kg			06/21/22 11:12	1

Client Sample ID: PH06

Lab Sample ID: 890-2423-5
Matrix: Solid
Date Collected: 06/16/22 13:22
Date Received: 06/16/22 15:27
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00365		0.00198	0.000381	mg/Kg		06/20/22 11:18	06/20/22 18:22	1
Toluene	0.0202		0.00198	0.000451	mg/Kg		06/20/22 11:18	06/20/22 18:22	1
Ethylbenzene	0.00497		0.00198	0.000559	mg/Kg		06/20/22 11:18	06/20/22 18:22	1
m-Xylene & p-Xylene	0.0109		0.00396	0.00100	mg/Kg		06/20/22 11:18	06/20/22 18:22	1
o-Xylene	0.00350		0.00198	0.000341	mg/Kg		06/20/22 11:18	06/20/22 18:22	1
Xylenes, Total	0.0144		0.00396	0.00100	mg/Kg		06/20/22 11:18	06/20/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:22*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0432		0.00396	0.00100	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		50.0	15.0	mg/Kg			06/21/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.5	J B	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:18	1
Diesel Range Organics (Over C10-C28)	37.3	J	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*06/20/22 13:49*	*06/21/22 03:18*	*1*
o-Terphenyl	*128*		*70 - 130*	*06/20/22 13:49*	*06/21/22 03:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		4.96	0.851	mg/Kg			06/21/22 11:19	1

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH06A

Date Collected: 06/16/22 13:30
Date Received: 06/16/22 15:27
Sample Depth: 4'

Lab Sample ID: 890-2423-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		06/20/22 11:18	06/20/22 18:42	1
Toluene	**0.000545**	**J**	0.00200	0.000455	mg/Kg		06/20/22 11:18	06/20/22 18:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		06/20/22 11:18	06/20/22 18:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		06/20/22 11:18	06/20/22 18:42	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		06/20/22 11:18	06/20/22 18:42	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		06/20/22 11:18	06/20/22 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:42*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/20/22 11:18*	*06/20/22 18:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			06/21/22 11:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**27.4**	**J**	49.9	15.0	mg/Kg			06/21/22 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**27.4**	**J B**	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:38	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		06/20/22 13:49	06/21/22 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/20/22 13:49*	*06/21/22 03:38*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/20/22 13:49*	*06/21/22 03:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		5.00	0.858	mg/Kg			06/21/22 11:27	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2423-1	PH04	106	101
890-2423-1 MS	PH04	96	101
890-2423-1 MSD	PH04	93	98
890-2423-2	PH04A	96	96
890-2423-3	PH05	95	99
890-2423-4	PH05A	95	100
890-2423-5	PH06	70	80
890-2423-6	PH06A	99	102
LCS 880-27899/1-A	Lab Control Sample	95	94
LCSD 880-27899/2-A	Lab Control Sample Dup	95	101
MB 880-27899/5-A	Method Blank	95	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-15961-A-11-D MS	Matrix Spike	85	82
880-15961-A-11-E MSD	Matrix Spike Duplicate	85	81
890-2423-1	PH04	123	128
890-2423-2	PH04A	117	120
890-2423-3	PH05	132 S1+	141 S1+
890-2423-4	PH05A	121	124
890-2423-5	PH06	118	128
890-2423-6	PH06A	115	121
LCS 880-27921/2-A	Lab Control Sample	85	87
LCSD 880-27921/3-A	Lab Control Sample Dup	86	87
MB 880-27921/1-A	Method Blank	86	97

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27899/5-A
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		06/20/22 11:18	06/20/22 16:10	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		06/20/22 11:18	06/20/22 16:10	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		06/20/22 11:18	06/20/22 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		06/20/22 11:18	06/20/22 16:10	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		06/20/22 11:18	06/20/22 16:10	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		06/20/22 11:18	06/20/22 16:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/20/22 11:18*	*06/20/22 16:10*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/20/22 11:18*	*06/20/22 16:10*	*1*

Lab Sample ID: LCS 880-27899/1-A
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08552		mg/Kg		86	70 - 130		
Toluene			0.100	0.08969		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09456		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1908		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-27899/2-A
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27899

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08468		mg/Kg		85	70 - 130	1	35
Toluene			0.100	0.08207		mg/Kg		82	70 - 130	9	35
Ethylbenzene			0.100	0.08606		mg/Kg		86	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1721		mg/Kg		86	70 - 130	10	35
o-Xylene			0.100	0.09374		mg/Kg		94	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-2423-1 MS
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: PH04
Prep Type: Total/NA
Prep Batch: 27899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0994	0.07509		mg/Kg		76	70 - 130		
Toluene	0.00109	J F1	0.0994	0.06935	F1	mg/Kg		69	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

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

Lab Sample ID: 890-2423-1 MS
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: PH04
Prep Type: Total/NA
Prep Batch: 27899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.000748	J F1	0.0994	0.06515	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	0.00177	J F1	0.199	0.1284	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00202	U	0.0994	0.07087		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-2423-1 MSD
Matrix: Solid
Analysis Batch: 27896

Client Sample ID: PH04
Prep Type: Total/NA
Prep Batch: 27899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0992	0.08156		mg/Kg		82	70 - 130	8	35
Toluene	0.00109	J F1	0.0992	0.07655		mg/Kg		76	70 - 130	10	35
Ethylbenzene	0.000748	J F1	0.0992	0.07650		mg/Kg		76	70 - 130	16	35
m-Xylene & p-Xylene	0.00177	J F1	0.198	0.1519		mg/Kg		76	70 - 130	17	35
o-Xylene	<0.00202	U	0.0992	0.08325		mg/Kg		84	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-27921/1-A
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27921

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.57	J	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 00:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 00:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		06/20/22 13:49	06/21/22 00:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/20/22 13:49*	*06/21/22 00:41*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/20/22 13:49*	*06/21/22 00:41*	*1*

Lab Sample ID: LCS 880-27921/2-A
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	981.1		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	914.3		mg/Kg		91	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

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

Lab Sample ID: LCS 880-27921/2-A
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27921

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-27921/3-A
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27921

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	918.0		mg/Kg		92	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-15961-A-11-D MS
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	87.4	B	998	965.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	741.0		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-15961-A-11-E MSD
Matrix: Solid
Analysis Batch: 27893

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 27921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	87.4	B	999	973.1		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	714.3		mg/Kg		72	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27807/1-A
Matrix: Solid
Analysis Batch: 28016

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.858	mg/Kg			06/21/22 06:42	1

Lab Sample ID: LCS 880-27807/2-A
Matrix: Solid
Analysis Batch: 28016

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	229.8		mg/Kg		92	90 - 110		

Lab Sample ID: LCSD 880-27807/3-A
Matrix: Solid
Analysis Batch: 28016

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.0		mg/Kg		102	90 - 110	11	20

Lab Sample ID: 890-2422-A-7-D MS
Matrix: Solid
Analysis Batch: 28016

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7.24	F1	248	219.5	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-2422-A-7-E MSD
Matrix: Solid
Analysis Batch: 28016

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.24	F1	248	216.6	F1	mg/Kg		85	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 27896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	8021B	27899
890-2423-2	PH04A	Total/NA	Solid	8021B	27899
890-2423-3	PH05	Total/NA	Solid	8021B	27899
890-2423-4	PH05A	Total/NA	Solid	8021B	27899
890-2423-5	PH06	Total/NA	Solid	8021B	27899
890-2423-6	PH06A	Total/NA	Solid	8021B	27899
MB 880-27899/5-A	Method Blank	Total/NA	Solid	8021B	27899
LCS 880-27899/1-A	Lab Control Sample	Total/NA	Solid	8021B	27899
LCSD 880-27899/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27899
890-2423-1 MS	PH04	Total/NA	Solid	8021B	27899
890-2423-1 MSD	PH04	Total/NA	Solid	8021B	27899

Prep Batch: 27899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	5035	
890-2423-2	PH04A	Total/NA	Solid	5035	
890-2423-3	PH05	Total/NA	Solid	5035	
890-2423-4	PH05A	Total/NA	Solid	5035	
890-2423-5	PH06	Total/NA	Solid	5035	
890-2423-6	PH06A	Total/NA	Solid	5035	
MB 880-27899/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27899/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27899/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2423-1 MS	PH04	Total/NA	Solid	5035	
890-2423-1 MSD	PH04	Total/NA	Solid	5035	

Analysis Batch: 28047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	Total BTEX	
890-2423-2	PH04A	Total/NA	Solid	Total BTEX	
890-2423-3	PH05	Total/NA	Solid	Total BTEX	
890-2423-4	PH05A	Total/NA	Solid	Total BTEX	
890-2423-5	PH06	Total/NA	Solid	Total BTEX	
890-2423-6	PH06A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27921/1-A	Method Blank	Total/NA	Solid	8015B NM	27921
LCS 880-27921/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27921
LCSD 880-27921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27921
880-15961-A-11-D MS	Matrix Spike	Total/NA	Solid	8015B NM	27921
880-15961-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27921

Analysis Batch: 27904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	8015B NM	27921
890-2423-2	PH04A	Total/NA	Solid	8015B NM	27921
890-2423-3	PH05	Total/NA	Solid	8015B NM	27921
890-2423-4	PH05A	Total/NA	Solid	8015B NM	27921

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 27904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-5	PH06	Total/NA	Solid	8015B NM	27921
890-2423-6	PH06A	Total/NA	Solid	8015B NM	27921

Prep Batch: 27921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	8015NM Prep	
890-2423-2	PH04A	Total/NA	Solid	8015NM Prep	
890-2423-3	PH05	Total/NA	Solid	8015NM Prep	
890-2423-4	PH05A	Total/NA	Solid	8015NM Prep	
890-2423-5	PH06	Total/NA	Solid	8015NM Prep	
890-2423-6	PH06A	Total/NA	Solid	8015NM Prep	
MB 880-27921/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27921/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15961-A-11-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15961-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Total/NA	Solid	8015 NM	
890-2423-2	PH04A	Total/NA	Solid	8015 NM	
890-2423-3	PH05	Total/NA	Solid	8015 NM	
890-2423-4	PH05A	Total/NA	Solid	8015 NM	
890-2423-5	PH06	Total/NA	Solid	8015 NM	
890-2423-6	PH06A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Soluble	Solid	DI Leach	
890-2423-2	PH04A	Soluble	Solid	DI Leach	
890-2423-3	PH05	Soluble	Solid	DI Leach	
890-2423-4	PH05A	Soluble	Solid	DI Leach	
890-2423-5	PH06	Soluble	Solid	DI Leach	
890-2423-6	PH06A	Soluble	Solid	DI Leach	
MB 880-27807/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2422-A-7-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2422-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 28016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2423-1	PH04	Soluble	Solid	300.0	27807
890-2423-2	PH04A	Soluble	Solid	300.0	27807
890-2423-3	PH05	Soluble	Solid	300.0	27807
890-2423-4	PH05A	Soluble	Solid	300.0	27807
890-2423-5	PH06	Soluble	Solid	300.0	27807
890-2423-6	PH06A	Soluble	Solid	300.0	27807
MB 880-27807/1-A	Method Blank	Soluble	Solid	300.0	27807

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 28016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	300.0	27807
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27807
890-2422-A-7-D MS	Matrix Spike	Soluble	Solid	300.0	27807
890-2422-A-7-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27807

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH04

Date Collected: 06/16/22 11:00
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 16:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 01:59	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 10:56	CH	XEN MID

Client Sample ID: PH04A

Date Collected: 06/16/22 11:10
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 17:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 02:19	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 09:58	CH	XEN MID

Client Sample ID: PH05

Date Collected: 06/16/22 12:05
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 17:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 02:39	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 11:04	CH	XEN MID

Client Sample ID: PH05A

Date Collected: 06/16/22 12:10
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 18:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Client Sample ID: PH05A
Date Collected: 06/16/22 12:10
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 02:59	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 11:12	CH	XEN MID

Client Sample ID: PH06
Date Collected: 06/16/22 13:22
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 18:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 03:18	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 11:19	CH	XEN MID

Client Sample ID: PH06A
Date Collected: 06/16/22 13:30
Date Received: 06/16/22 15:27

Lab Sample ID: 890-2423-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27899	06/20/22 11:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27896	06/20/22 18:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28047	06/21/22 11:40	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28061	06/21/22 14:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27921	06/20/22 13:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 03:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 11:27	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-2423-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2423-1	PH04	Solid	06/16/22 11:00	06/16/22 15:27	2'
890-2423-2	PH04A	Solid	06/16/22 11:10	06/16/22 15:27	4'
890-2423-3	PH05	Solid	06/16/22 12:05	06/16/22 15:27	2'
890-2423-4	PH05A	Solid	06/16/22 12:10	06/16/22 15:27	4'
890-2423-5	PH06	Solid	06/16/22 13:22	06/16/22 15:27	0.5'
890-2423-6	PH06A	Solid	06/16/22 13:30	06/16/22 15:27	4'

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

CIP- cooling in progess

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 Nath. Parks Hwy	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	
Phone:	337 257 8307	Email:	tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	03C1558603	☒ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	
Sampler's Name:	LR Cheli	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	NA		

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	9.8	
Total Containers:		Corrected Temperature:	9.6	

ANALYSIS REQUEST

Pres. Code / Parameters: TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300)

890-2423 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont
PH01	S	6/16/22	1100	2'	G	1
PH01A			1110	4'		
PH05			1205	2'		
PH05A			1210	4'		
PH06			1322	0.5		
PH06A			1330	4'		

Sample Comments

Cost Center:
1673448 1001

EM.2019.08149.
EXP. 01

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1	Amanda Stutz	6/16/22 1527			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2423-1
SDG Number: Eddy County NM

Login Number: 2423
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2423-1
SDG Number: Eddy County NM

Login Number: 2423
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/20/22 08:18 AM

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

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Aimee Cole
To: Tacoma Morrissey; Kalei Jennings; Ben Belill
Subject: FW: XTO - Sampling Notification (week of 5/9/22 - 5/13/22)
Date: Wednesday, May 4, 2022 3:57:04 PM
Attachments: image001.png
image002.png
image003.png
image004.png

For your records.

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Baker, Adrian <adrian.baker@exxonmobil.com>
Sent: Wednesday, May 4, 2022 1:56 PM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Chad.Hensley@state.nm.us
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Aimee Cole <acole@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>
Subject: XTO - Sampling Notification (week of 5/9/22 - 5/13/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of May 9, 2022.

Wednesday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Remuda Basin #1 / NAB1836137253

Thursday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- JRU Legg Battery / nAPP2204943884

Friday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910

Thank you,

From: Aimee Cole
To: Tacoma Morrissey
Subject: FW: XTO - Sampling Notification (week of 6/6/22 - 6/10/22)
Date: Thursday, June 2, 2022 3:30:36 PM
Attachments: image001.png
image002.png
image003.png
image004.png

For your records, I think these are all your sites!

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, June 2, 2022 12:25 PM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Aimee Cole <acole@ensolum.com>
Subject: XTO - Sampling Notification (week of 6/6/22 - 6/10/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of June 6, 2022.

Tuesday, June 7th
- PLU 20-24-30 / nAPP2210937085

Wednesday, June 8th
- PLU 28 Big Sinks 127H / nAPP2210143304

Thursday, June 9th
- PLU 28 Big Sinks 127H / nAPP2210143304
- Remuda Basin 1 / NAB1836137253

Friday, June 10th
- Remuda Basin 1/ NAB1836137253

Thank you,

Garrett Green

ENSOLUM

APPENDIX C

New Mexico Cultural Resource Information System Investigation Abstract Form

NMCRIS No: 143058

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 143058	2a. Lead Agency: New Mexico State Land Office	2b. Other Agency(ies):	3. Lead Agency Report No.:

4. Title of Report:	A Class III Cultural Resource Inventory of Remuda Basin 001 in Eddy County, New Mexico	5. Type of Report	
		☒	Negative
Author(s)	Thea Stehlik-Barry	☐	Positive

6. Investigation Type

☐Research Design	☒Archaeological Survey/Inventory	☐Architectural Survey/Inventory	☐Test Excavation	☐ Excavation
☐ Collections/Non-Field Study	☐ Compliance Decision Based on Previous Inventory	☐ Overview/Lit Review	☐ Monitoring	
☐ Ethnographic Study	☐ Site/Property Specific Visit	☐ Historic Structures Report	☐ Other	

7. Description of Undertaking (what does the project entail?):

The undertaking consists of a Class III survey of an area of environmental concern requiring remediation. The total proposed area of potential effect (APE), which accounts for impacted surfaces and all proposed surface disturbing activities, is fully encompassed, including an adequate buffer area, by an 808' long by 970' wide (approximately 13-acre) survey area block. The entirety of the survey area and proposed APE are located on state land surface.

☐ **Continuation**

8. Dates of Investigation:	from: 01 May 2019	to: 02 May 2019	9. Report Date: 09 May 2019

10. Performing Agency/Consultant:	Beaver Creek Archaeology, Inc.
Principal Investigator:	Ashley Norred
Field Supervisor:	Brandon Gonia
Field Personnel Names:	Thea Stehlik-Barry
Historian / Other:	N/A
11. Performing Agency/Consultant Report No.:	BCA19-560
12. Applicable Cultural Resource Permit No(s):	NM-18-301-S
13. Client/Customer (project proponent):	XTO Energy, Inc.
Contact:	Christian Holcomb
Address:	6401 Holiday Hill Road, Suite 200, Midland, TX 79707 **Phone:** (432) 571-8226
14. Client/Customer Project No.:	N/A

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)	Acres Surveyed	Acres in APE
New Mexico State Land Office	13	7
TOTALS	13	7

16. Records Search(es):

Date(s) of HPD/ARMS File Review:	Name of Reviewer(s):	
30 April 2019	Marc Seamands	
Date(s) of Other Agency File Review:	Name of Reviewer(s):	Agency:

17. Survey Data:

a. Source Graphics	☐ NAD 27	☒ NAD 83	Note: NAD 83 is the NMCRIS standard.

NMCRIS No: 143058

☒ **USGS 7.5' (1:24,000) topo map**	☐ **Other topo map, Scale:**					
☒ **GPS Unit**	**Accuracy**	☐ **<1.0m**	☒ **1-10m**	☐ **10-100m**	☐ **>100m**	☐ **Aerial Photo(s)**
Other Source Graphic(s):						

b. USGS 7.5' Topographic Map Name	**USGS Quad Code**
Remuda Basin	32103-C8

c. County(ies):	Eddy County
d. Nearest City or Town:	Loving, NM
e. Legal Description:	NW ¼ SE ¼ & S ½ SW ¼ NE ¼ of T23S R29E Section 24

Township (N/S)	**Range (E/W)**	**Section**
T23S	R29E	24

Projected legal description? ☐ **Yes** ☒ **No** ☐ **Unplatted**

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

From Artesia, NM taking US Hwy 285 S for 39.7 miles then turn left onto George Shoup Relief Rte. Continue on George Shoup Relief Rte for 8.4 miles then turn right onto E Greene St. Continue on E Greene St from 1 mile then turn left onto Refinery Road. Continue on Refinery Road for 12.6 miles then turn left onto NM-31. Continue on NM-31 for 2.4 miles then turn right onto NM-128E. Continue on NM-128E for 4.5 miles then turn right onto Rawhide Rd. Continue on Rawhide Rd for 4.1 miles then turn right to stay on Rawhide Road for another 0.4 miles. Turn right onto an unnamed pipeline road. Take this unnamed road for 0.23 miles then the survey area will be to the right.

☐ **Continuation**

18. Survey Field Methods:		
Intensity:	☒ 100% coverage	☐ <100% coverage
Configuration:	☒ block survey units	☐ linear survey units (l x w):
☐ other survey units (specify):		
Scope:	☒ non-selective (all sites/properties recorded)	☐ selective/thematic (selected sites/properties recorded)
Coverage Method:	☒ systematic pedestrian coverage	
☐ other method (describe):		

Survey Interval (m):	15m	**Crew Size:**	2	**Fieldwork Dates:**	from:	**1 May 2019**	to:	2 May 2019
Survey Person Hours:	2	**Recording Person Hours:**	3	**Total Hours:**	5			

Additional Narrative:

The NMCRIS records check did not reveal any previously recorded sites within the survey area, but LA 169049 is located immediately adjacent to the survey area. LA 169049 was recorded as a sparse artifact scatter with no diagnostic artifacts or cultural features. BCA confirmed that LA 169049 did not enter the survey area by checking the previously recorded site boundary and completing an artifact tally for the site. Additionally, small segment of the southern portion of the site boundary was noted to be disturbed by an existing road and pipeline. This existing road separates the proposed APE from the vast majority of the site boundary. As LA 169049 is outside the survey area and located over 100' away from the proposed undertaking, the survey was considered negative. None-the-less, an artifact tally, site-form update, and the like were completed for LA 169049 and are attached to this document.

One Isolated Occurrence (IO) was recorded during the current inventory. IO 1 is a quartzite core (see Table 2).

☐ **Continuation**

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

The project area is located east of the Pecos River on the Mescalero Plain approximately 9.5 miles east of Loving, New Mexico. The elevation averages approximately 3,016' (AMSL). The survey area is located in gently rolling desert with low sand dunes primarily vegetated by mesquite with some creosote, as well as other various grasses, plants, and forbs. According to the NRCS (2019), the soils within the survey area are comprised of Reeves-Gypsum land complex and Largo Loam, which is typically found on backslopes, foot slopes, shoulders, toe slopes, and alluvial fans within settings of ridges, hills, plains, talfs, and rises at elevations ranging from 1,250' to 5,700' and slopes ranging from 0-5%. The survey area falls within the Chihuahuan Basins and Playas ecoregion which is characterized by flat to rolling basins formed from depressions filling with sediments. Drainages within the area tend to be either alluvial basins by rivers, internally draining basins, and ephemeral streams (Griffith et al. 2006). Locations for oil and gas production are present within and around the survey area.

References Cited:

Griffith, G.E., Omernik, J.M., McGraw, M.M., Jacobi,G.Z., Canavan, C.M., Schrader, T.S., Mercer, D., Hill, R., and Moran, B.C., 2006 Ecoregions of New Mexico (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey (map scale 1:1,400,000).

National Resources Conservation Service (NRCS) 2019 NRCS Web Soil Survey. Electronic document, https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx,

NMCRIS No: 143058

accessed 05/7/2019.	
	☒ **Continuation**
20.a. Percent Ground Visibility:	**b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**
Ground surface visibility ranged from 76-99% and was aided by an existing well pad, pipeline corridor a gravel access road, rodent and insect burrow bioturbation, cattle grazing and trampling, and sparse vegetation.	Heavy use of the survey area is primarily from oil and gas industry production. A well pad is located in the southern portion of the survey area. A pipeline corridor and access road are located along the northwest portion of the survey area. Evidence of cattle grazing and trampling is also present in the survey area. Overall, the survey area has been approximately 65-70% disturbed.
	☐ **Continuation**

CULTURAL RESOURCE FINDINGS ☐ **Yes, see next report section** ☒ **No, discuss why:**

One Isolated Occurrence (IO) was recorded during the current inventory. IO 1 is a quartzite core (see Table 2). LA 169049 is located immediately adjacent to survey area, but is not within the survey area. IO 1 is located a significant distance away, in the southeast portion of the proposed APE, from site LA 169049.

LA 169049 is directly adjacent to the survey area but lies just outside of the survey boundary. Accordingly, BCA conducted a surface inventory analysis of the site and checked the previously-recorded site boundary. The boundary appeared to remain the same and all artifacts within it were analyzed. An existing road and pipeline were noted as having disturbed a portion of the southern segment of the site. As the proposed project is approximately 139' from the edge of the site boundary, no subsurface testing was performed and the LA 169049 will continue to be recommended as unevaluated.

☐ **Continuation**

22. Attachments (check all appropriate boxes):

☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
☒ Copy of NMCRIS Map Check (required)
☐ LA Site Forms - new sites (with sketch map & topographic map) if applicable
☒ LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
☐ Historic Cultural Property Inventory Forms, if applicable
☒ List and Description of Isolates, if applicable
☐ List and Description of Collections, if applicable

23. Other Attachments:

☒ **Photographs**	☒ **Other Attachments (Describe):**
Photo Log (Table 1)	Isolated Occurrence (IO) Table, LA 169049 Site Form (Update)

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: **Printed Name:** Raina Hanley

Signature: Raina Hanley Date: 5/9/2019 Title: COO

25. Reviewing Agency	**26. SHPO**
Reviewer's Name/Date:	**Reviewer's Name/Date:**
Accepted ☐ **Rejected** ☐	**HPD Log #:**
	Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

SURVEY RESULTS:

Archaeological Sites discovered and registered:	0
Archaeological Sites discovered and NOT registered:	0
Previously recorded archaeological sites revisited (site update form required):	1
Previously recorded archaeological sites not relocated (site update form required):	0
TOTAL ARCHAEOLOGICAL SITES (visited & recorded):	1
Total isolates recorded: 1	☒ Non-selective isolate recording?
HCPI properties discovered and registered:	0
HCPI properties discovered and NOT registered:	0
Previously recorded HCPI properties revisited:	0
Previously recorded HCPI properties not relocated:	0
TOTAL HCPI PROPERTIES (visited & recorded, including acequias):	0

MANAGEMENT SUMMARY: During the inventory, BCA recorded one IO and confirmed LA 169049 did not enter the survey area. The IO is not linked to any significant activity loci, so no further treatment is recommended. Prehistoric site, LA 169049 is an unevaluated prehistoric lithic scatter site that is located outside the survey area and all proposed disturbance will take place over 100' away from the site boundary.

NMCRIS No: 143058

	To ensure site boundary avoidance and any unanticipated discoveries, BCA recommends that a monitor be present for initial ground disturbance activities that occur on the portion of the project closest to LA 169049. Additionally, for the portions of the APE, not already separated by the existing road, BCA will place avoidance fencing just over 100' away from the proposed APE. This should make it visibly apparent to construction and project workers where they are not to enter, while also not showing the exact location of the site (see Figure 1 below). As the project is currently designed, and as long as the aforementioned avoidance recommendations are followed, BCA recommends a finding of *No Historic Properties Affected.*

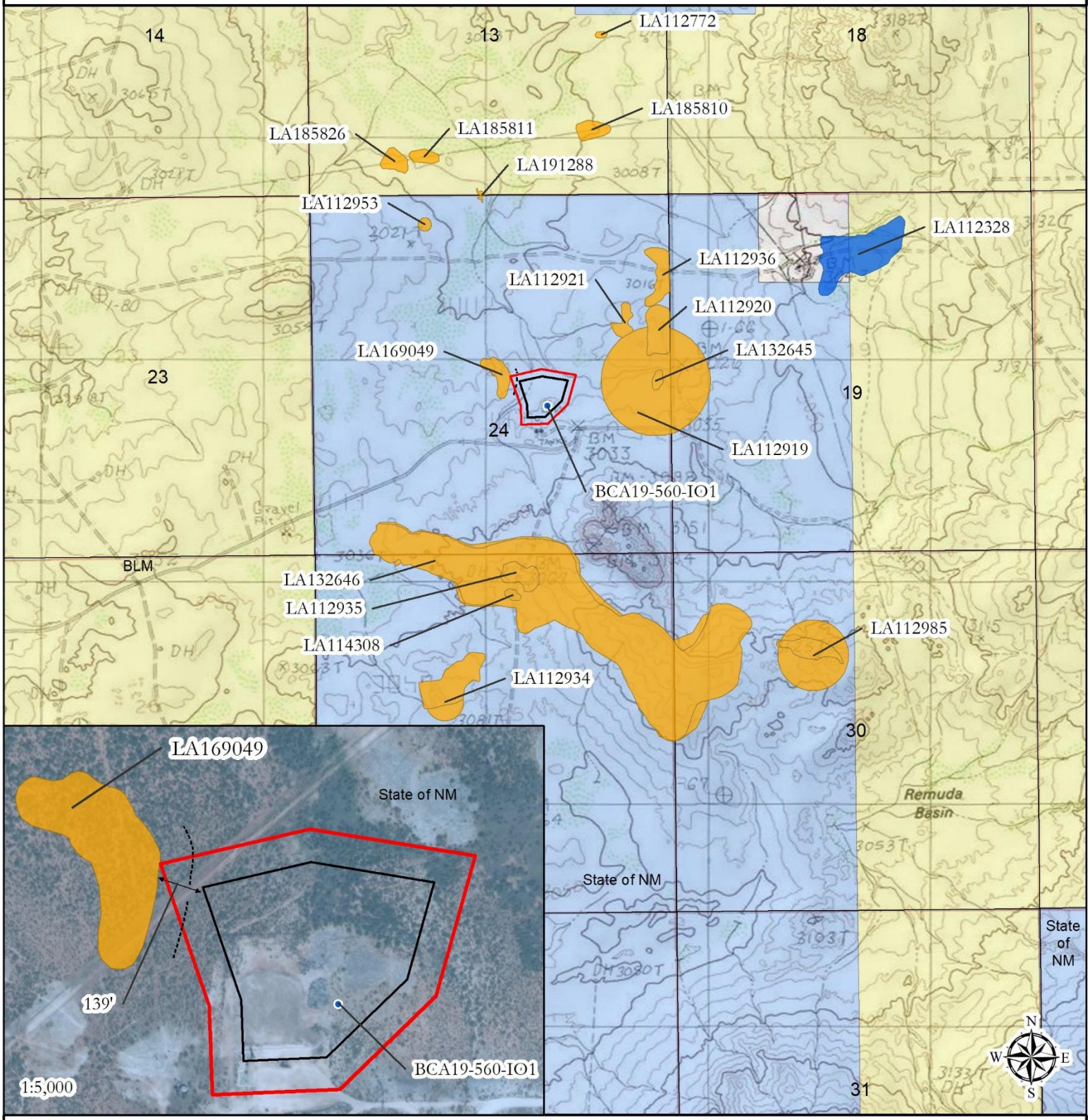
☐ **Continuation**

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG		
Sites/Properties Discovered:		
LA/HCPI No:	**Field/Agency No.**	**Eligible? (Y/N/I, applicable criteria)**
Previously recorded revisited sites/HCPI properties:		
LA/HCPI No:	**Field/Agency No.**	**Eligible? (Y/N/I, applicable criteria)**

Beaver Creek
ARCHAEOLOGY

Remuda Basin 001
XTO Energy, Inc.
T23S R29E Sec. 24
Remuda Basin(1985) Quad. Map
Upper Pecos-Black Drainage
Eddy County, New Mexico



Legend

Survey Area (13 Acres)
APE (7 Acres)
Avoidance Fencing

Cultural Resources
Eligilbe/Unevaluated Sites
Ineligible Site
Isolated Ocurrence

0 200 400 800 1,200 1,600 Meters
0 0.125 0.25 0.5 0.75 1 Miles

Base Map: USGS 7.5'
Scale: 1:24,000
UTM NAD83 Zone 13

Figure 1: Project map showing cultural resources in relation to the APE and survey area

MS

NMCRIS No: 143058

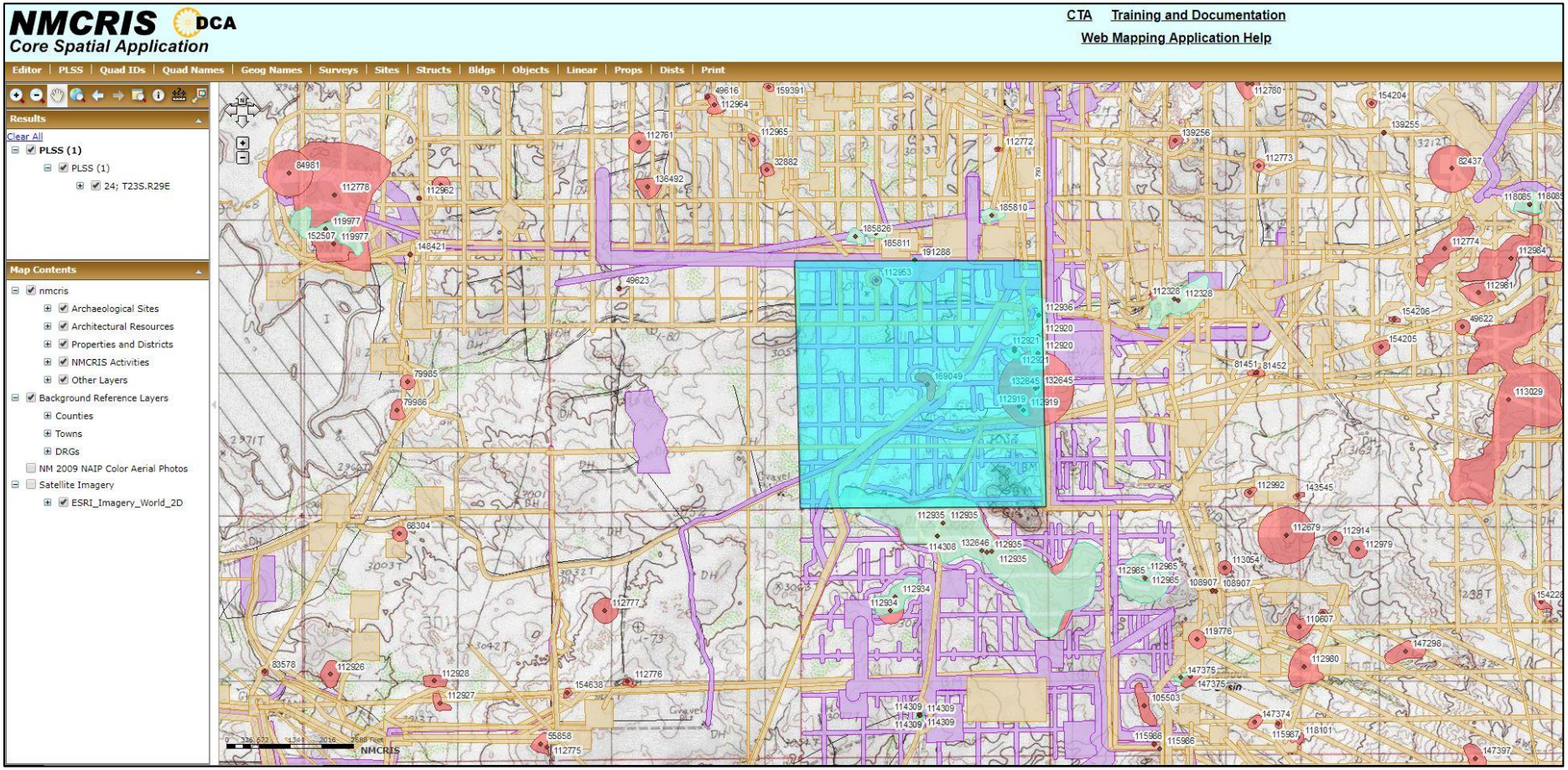


Figure 2: NMCRIS File Search Screen Shot

NMCRIS No: 143058

Figure 3. Overview photo of survey area. View is to the northwest. (Photo 305)

Figure 4. Overview photo of survey area. View is to the north. (Photo 306)

NMCRIS No: 143058

Figure 5. Overview photo of survey area with fence line. View is to the north. (Photo 315)

Figure 6. Overview photo of disturbance area in survey area. View is to the southwest. (Photo 316)

NMCRIS No: 143058

Figure 5. Overview photo of IO 1 (quartzite core) side a. Plan view. (Photo 307)

Figure 6. Overview photo of IO 1 (quartzite core) side b. View is to the southwest. (Photo 308)

NMCRIS No: 143058

Beaver Creek ARCHAEOLOGY

Photo Log

BCA Project#:BCA19-560 Crew: TSB, BJG Camera # Nikon C1

Table 1. Photo Log(s)

Date	Frame #	Site/IO# ~OR~ BCA Field Code	Direction	Photographer	Description
5/1/19	305	BCA19-560	NW	BJG	Overview of environmental concern area
5/1/19	306	BCA19-560	N	BJG	Survey overview
5/1/19	307	BCA19-560	Plan	BJG	IO 1 quartzite core side a
5/1/19	308	BCA19-560	Plan	BJG	IO 1 quartzite core side b
5/1/19	309	BCA19-560	S	BJG	Survey area overview
5/1/19	310	LA 169049	Plan	BJG	PL 1- white chert biface fragment side a
5/1/19	311	LA 169049	Plan	BJG	PL 1- white chert biface fragment side b
5/1/19	312	LA 169049	Plan	BJG	PL 1- white chert biface fragment cross section
5/1/19	313	LA 169049	N	BJG	Site Overview
5/1/19	314	LA 169049	NW	BJG	Site Overview
5/2/19	315	BCA19-560	N	BJG	Fence line with area of concern
5/2/19	316	BCA19-560	SW	BJG	Overview of disturbance area

NMCRIS No: 143058

Table 2. Isolated Occurrences (IOs)

IO#	Quantity	Description	Northing	Easting	Notes
IO 1	1	Quartzite core	3572986	600234	Purple quartzite

ENSOLUM

APPENDIX D

Boring Logs (2024)

ENSOLUM

	Sample Name: DP01	Date: 11/20/2024
	Site Name: Remuda Basin 1	
	Incident Number: NAB1836137253 (2RP-5135)	
	Job Number: 03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Jesse Dorman	Method: Sonic drill
Coordinates: 32.289087, -103.935787	Hole Diameter: 4"	Total Depth: 20' bgs

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SC/ML	SAND, brown w/ silt and clay No HC stain or odor.
						1		
						2		
						3	GYP	GYPSUM, soft, micro crystaline, white-gray, well consolidated. No HC stain or odor.
						4		
D	<162.4	0.0	N	DP01	5	5		
						6		
						7		
						8		
						9		
D	<162.4	0.0	N	DP01A	10	10		
						11		
						12	SC	SAND, red/brown clay w/sand and silt. No HC stain or odor.
						13		
						14		
D	<162.4	0.0	N	DP01B	15	15		
						16		
						17	GYP	GYPSUM, micro crystaline, soft, white to gray color, strong cohesion. No HC stain or odor.
D	<162.4	0.0	N	DP01C	18	18		
						19		
D	<162.4	0.0	N	DP01D	20	20		
						Total Depth @ 20 feet bgs.		

ENSOLUM

	Sample Name: DP02	Date: 11/20/2024
	Site Name: Remuda Basin 1	
	Incident Number: NAB1836137253 (2RP-5135)	
	Job Number: 03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Jesse Dorman	Method: Sonic drill
Coordinates: 32.289431, -103.935807	Hole Diameter: 4"	Total Depth: 20' bgs

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	GYP	GYPSUM, soft, micro crystaline, white-gray, high cohesion. No HC stain or odor.
						1		
						2		
						3		
						4		
D	<162.4	0.0	N	DP02	5	5		
						6		
						7		
						8		
						9		
D	<162.4	0.0	N	DP02A	10	10		
						11		
						12		
						13		
						14		
D	<162.4	0.0	N	DP02B	15	15		
						16		
						17		
M	498.4	0.0	N	DP02C	18	18		
						19		
M	<162.4	0.0	N	DP02D	20	20		
						Total Depth @ 20 feet bgs.		

ENSOLUM

	Sample Name: DP03	Date: 11/20/2024
	Site Name: Remuda Basin 1	
	Incident Number: NAB1836137253 (2RP-5135)	
	Job Number: 03C1558003	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Jesse Dorman	Method: Sonic drill
Coordinates: 32.289185, -103.936240	Hole Diameter: 4"	Total Depth: 20' bgs

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	SAND, brown w/ silt and gravel. No HC stain or odor.
						1		
						2		
						3		
M	5,886	0.0	N		4	4	ML	CLAY, red and brown w/silt No HC stain or odor.
						5		
M	11,665	0.0	N	DP03	6	6		
						7		
M	10,007				8	8		
						9		SAA in addition to small inclusions of gypsum increasing with depth
M	5,443	0.0	N	DP03A	10	10		
						11		
D	1,635	0.0	N		12	12		
						13		
M	823	0.0	N		14	14		
						15		
D	364	0.0	N	DP03B	16	16	GYP	GYPSUM, light to dark gray, soft. No HC stain or odor.
						17		
D	<162.4	0.0	N	DP03C	18	18		
						19		
D	<162.4	0.0	N	DP03D	20	20		
						Total Depth @ 20 feet bgs.		

ENSOLUM

APPENDIX E

Photographic Log (2023 - 2025)

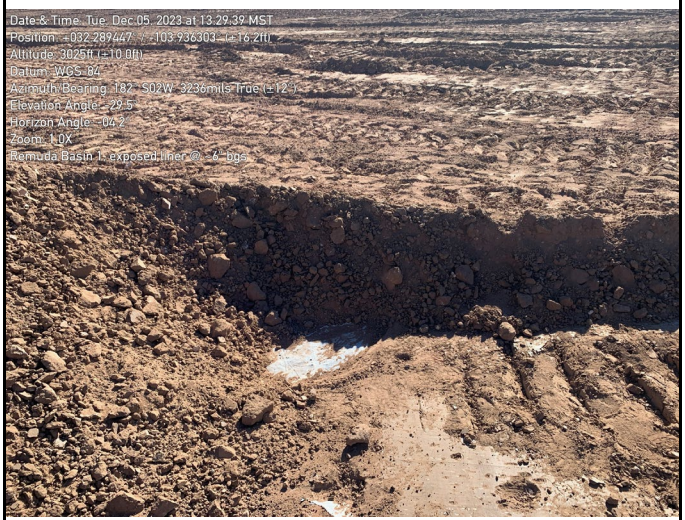
ENSOLUM

Photographic Log
XTO Energy, Inc
Remuda Basin Unit #001
Incident Number NAB1836137253

Photograph 1 Date: 11/27/2023
Description: Exposing reserve pit liner
View: Vertical

Photograph 2 Date: 11/27/2023
Description: Exposing reserve pit liner
View: Vertical

Photograph 3 Date: 12/04/2023
Description: Excavation north of historical drilling pit
View: West



Photograph 4 Date: 12/05/2023
Description: Historical drilling pit liner
View: South

ENSOLUM

Photographic Log
XTO Energy, Inc
Remuda Basin Unit #001
Incident Number NAB1836137253

Photograph 5 Date: 12/07/2023
Description: Excavation west of historical drilling pit
View: South

Photograph 6 Date: 12/07/2023
Description: Excavation north of historical drilling pit
View: West

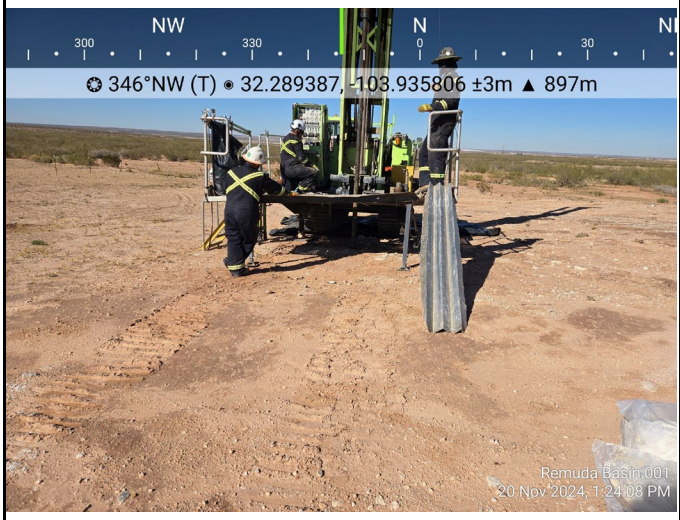
Photograph 7 Date: 12/14/2023
Description: Excavation south of historical drilling pit
View: Southeast

Photograph 8 Date: 12/13/2023
Description: SW01, SW80, and PH01 (2022) excavation
View: West

ENSOLUM

Photographic Log
XTO Energy, Inc
Remuda Basin Unit #001
Incident Number NAB1836137253

Photograph 9 Date: 11/20/2024
Description: Sonic drilling DP01
View: Southwest



Photograph 10 Date: 11/20/2024
Description: Sonic drilling DP02
View: North

Photograph 11 Date: 11/20/2024
Description: Sonic drilling location DP03
View: South

Photograph 12 Date: 05/15/2025
Description: Composite sample locations resample FS67
View: Northeast

ENSOLUM

APPENDIX F

NMOCD Notifications (2023)

From: Rodgers, Scott, EMNRD
To: Green, Garrett J; Hamlet, Robert, EMNRD; Maxwell, Ashley, EMNRD; Bratcher, Michael, EMNRD
Cc: Ben Belill; Tacoma Morrissey
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 12/4/23 - 12/8/23)
Date: Thursday, November 30, 2023 4:19:09 PM

Some people who received this message don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, November 30, 2023 10:55 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ben Belill <bbelill@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 12/4/23 - 12/8/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of December 4, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

Site Name	PLU 16 Twin Wells Ranch 102H
Location	D-21-24S-31E; Eddy County, NM
Incident ID	Not Yet Determined
Source & Description of Activities	Soil Sampling

Expected Duration for Activities	2 Days (12.6.23-12.7.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM

Site Name	Stan 32 State 71H
Location	L1-32-26S-30E; Eddy County, NM
Incident ID	NRM2004938133
Source & Description of Activities	Groundwater Sampling
Expected Duration for Activities	3 Days (12.4.23-12.6.23)
Env Consultant	Ensolum
Contractor	NA
Sampling Notification Required	Yes
Surface Owner	SLO

Site Name	Nash Unit #046H
Location	C-18-23S-30E; Eddy County, NM
Incident ID	NAB1821139914
Source & Description of Activities	Soil Sampling
Expected Duration for Activities	2 Days (12.7.23-12.8.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	SLO

Site Name	Remuda Basin 1
Location	J-24-23S-29E; Eddy County, NM
Incident ID	NAB1836137253
Source & Description of Activities	Soil Sampling
Expected Duration for Activities	5 Days (12.4.23-12.8.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	SLO

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Wells, Shelly, EMNRD
To: Collins, Melanie; spills@slo.state.nm.us
Cc: Green, Garrett J; Lambert, Tommee L; Ben Belill; Tacoma Morrissey; Velez, Nelson, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 12/11/23 - 12/15/23)
Date: Thursday, December 7, 2023 10:49:30 AM
Attachments: image001.png
Public Notice Implementation of Digital C-141 and Incident Statuses (1).pdf

Some people who received this message don't often get email from shelly.wells@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Good morning Melanie,

I have attached the new procedures for submitting both liner inspection and confirmation sampling notifications. Please refer to page 59 of the attached document for submittal procedures. It will walk you through the process. Notifications need to be submitted this way from here on out.

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, December 7, 2023 7:28 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>; bbelill@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 12/11/23 - 12/15/23)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of December 11, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

Site Name	PLU 29-20 BS 108H
Location	A-29-25S-31E; Eddy County, NM
Incident ID	nAPP2328644007
Source & Description of Activities	Soil Sampling
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM
Sampling surface area (square feet)	9,250
Estimated Number of Samples	57
Sampling Dates	12/11/2023 (Monday) – 12/13/2023 (Wednesday)
Sampling Times	8:00am to 5:00pm MST
Site Location and Additional Info	GPS at 32.10662, -103.79189. Open Access, potential H2S and livestock.

Site Name	Outrider CVB
Location	J-28-24S-32E; Lea County, NM
Incident ID	nAPP2330651127
Source & Description of Activities	Soil Sampling
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM
Sampling surface area (square feet)	800
Estimated Number of Samples	10
Sampling Dates	12/11/2023 (Monday) – 12/12/2023 (Tuesday)
Sampling Times	8:00am to 5:00pm MST
Site Location and Additional Info	GPS at 32.186222, -103.676731. Open Access, potential H2S and livestock.

Site Name	Nash Unit #046H
Location	C-18-23S-30E; Eddy County, NM
Incident ID	NAB1821139914
Source & Description of Activities	Soil Sampling
Env Consultant	Ensolum
Contractor	Tex Mex

Sampling Notification Required	Yes
Surface Owner	SLO
Sampling surface area (square feet)	800
Estimated Number of Samples	10
Sampling Dates	12/14/2023 (Thursday) – 12/15/2023 (Friday)
Sampling Times	8:00am to 5:00pm MST
Additional Sampling Information	Delineation soil sampling only.
Site Location and Additional Info	GPS at 32.308253, -103.927077. Open Access, potential H2S and livestock. Location along active lease road.

Site Name	Pierce Canyon 17 Tank Battery
Location	P-17-25S-30E; Eddy County, NM
Incident ID	NAPP2233951574
Source & Description of Activities	Soil Sampling
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM
Sampling surface area (square feet)	8,900
Estimated Number of Samples	30
Sampling Dates	12/14/2023 (Thursday) – 12/15/2023 (Friday)
Sampling Times	8:00am to 5:00pm MST
Additional Sampling Information	NMOCD approved 500 square foot sampling variance
Site Location and Additional Info	GPS at 32.124181, -103.895993. Open Access, potential H2S and livestock.

Site Name	Remuda Basin 1
Location	J-24-23S-29E; Eddy County, NM
Incident ID	NAB1836137253
Source & Description of Activities	Soil Sampling
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	SLO
Sampling surface area (square feet)	15,000

Estimated Number of Samples	85
Sampling Dates	12/11/2023 (Monday) – 12/15/2023 (Friday)
Sampling Times	8:00am to 5:00pm MST
Site Location and Additional Info	GPS at 32.288133, -103.936189. Open Access, potential H2S and livestock.

Thank you,

Melanie Collins

XTO ENERGY

Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

ENSOLUM

APPENDIX G

Laboratory Analytical Reports & Chain-of-Custody Documentation (2023-2025)

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/4/2023 3:14:48 PM

JOB DESCRIPTION

Remuda Basin #1
03C1558003

JOB NUMBER

890-5700-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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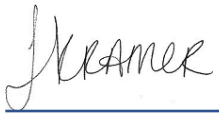
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Remuda Basin #1

Laboratory Job ID: 890-5700-1
SDG: 03C1558003

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Definitions/Glossary

Client: Ensolum Job ID: 890-5700-1
Project/Site: Remuda Basin #1 SDG: 03C1558003

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Job ID: 890-5700-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5700-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/29/2023 4:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-5700-1), BH02 (890-5700-2), BH02A (890-5700-3) and BH03 (890-5700-4).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH02A (890-5700-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68131 and analytical batch 880-68081 was outside the upper control limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68165 and analytical batch 880-68172 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-5700-1), BH02 (890-5700-2), BH02A (890-5700-3), BH03 (890-5700-4), (890-5700-A-3-D MS) and (890-5700-A-3-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-68172/47) and (CCV 880-68172/58). Evidence of matrix interferences is not obvious.

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

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

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Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH01

Lab Sample ID: 890-5700-1
Matrix: Solid
Date Collected: 11/29/23 13:40
Date Received: 11/29/23 16:32
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 00:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 00:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 00:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/23 13:13	12/02/23 00:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 00:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/23 13:13	12/02/23 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/01/23 13:13*	*12/02/23 00:43*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/01/23 13:13*	*12/02/23 00:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/02/23 00:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**504**		50.4		mg/Kg			12/03/23 02:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		12/01/23 16:01	12/03/23 02:43	1
Diesel Range Organics (Over C10-C28)	**504**		50.4		mg/Kg		12/01/23 16:01	12/03/23 02:43	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		12/01/23 16:01	12/03/23 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/03/23 02:43*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/03/23 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10200**		100		mg/Kg			12/02/23 01:47	20

Client Sample ID: BH02

Lab Sample ID: 890-5700-2
Matrix: Solid
Date Collected: 11/29/23 13:55
Date Received: 11/29/23 16:32
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 01:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 01:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 01:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/01/23 13:13	12/02/23 01:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/01/23 13:13	12/02/23 01:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/01/23 13:13	12/02/23 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/01/23 13:13*	*12/02/23 01:03*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH02

Date Collected: 11/29/23 13:55
Date Received: 11/29/23 16:32
Sample Depth: 2

Lab Sample ID: 890-5700-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*12/01/23 13:13*	*12/02/23 01:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/02/23 01:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**109**		50.5	mg/Kg			12/03/23 02:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		12/01/23 16:01	12/03/23 02:22	1
Diesel Range Organics (Over C10-C28)	**109**		50.5	mg/Kg		12/01/23 16:01	12/03/23 02:22	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		12/01/23 16:01	12/03/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/03/23 02:22*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/03/23 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9060**		101	mg/Kg			12/02/23 02:04	20

Client Sample ID: BH02A

Date Collected: 11/29/23 14:10
Date Received: 11/29/23 16:32
Sample Depth: 4

Lab Sample ID: 890-5700-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/23 13:13	12/02/23 01:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/23 13:13	12/02/23 01:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/23 13:13	12/02/23 01:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/23 13:13	12/02/23 01:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/23 13:13	12/02/23 01:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/23 13:13	12/02/23 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*12/01/23 13:13*	*12/02/23 01:24*	*1*
1,4-Difluorobenzene (Surr)	*58*	*S1-*	*70 - 130*	*12/01/23 13:13*	*12/02/23 01:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/02/23 01:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/02/23 21:03	1

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Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH02A

Lab Sample ID: 890-5700-3
Matrix: Solid
Date Collected: 11/29/23 14:10
Date Received: 11/29/23 16:32
Sample Depth: 4

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/01/23 16:01	12/02/23 21:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/01/23 16:01	12/02/23 21:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/01/23 16:01	12/02/23 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/02/23 21:03*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/02/23 21:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3930**		99.2		mg/Kg			12/02/23 02:10	20

Client Sample ID: BH03

Lab Sample ID: 890-5700-4
Matrix: Solid
Date Collected: 11/29/23 14:20
Date Received: 11/29/23 16:32
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/01/23 13:13	12/02/23 01:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/01/23 13:13	12/02/23 01:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/01/23 13:13	12/02/23 01:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/01/23 13:13	12/02/23 01:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/01/23 13:13	12/02/23 01:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/01/23 13:13	12/02/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/01/23 13:13*	*12/02/23 01:44*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*12/01/23 13:13*	*12/02/23 01:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/02/23 01:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/02/23 22:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/01/23 16:01	12/02/23 22:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/01/23 16:01	12/02/23 22:06	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/01/23 16:01	12/02/23 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/02/23 22:06*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*12/01/23 16:01*	*12/02/23 22:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH03
Date Collected: 11/29/23 14:20
Date Received: 11/29/23 16:32
Sample Depth: 4

Lab Sample ID: 890-5700-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5730		100		mg/Kg			12/02/23 02:15	20

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36350-A-1-B MS	Matrix Spike	98	106
880-36350-A-1-C MSD	Matrix Spike Duplicate	100	106
890-5700-1	BH01	88	84
890-5700-2	BH02	86	70
890-5700-3	BH02A	80	58 S1-
890-5700-4	BH03	85	82
LCS 880-68131/1-A	Lab Control Sample	103	111
LCSD 880-68131/2-A	Lab Control Sample Dup	104	110
MB 880-68086/5-A	Method Blank	70	75
MB 880-68131/5-A	Method Blank	68 S1-	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5700-1	BH01	150 S1+	138 S1+
890-5700-2	BH02	149 S1+	134 S1+
890-5700-3	BH02A	150 S1+	134 S1+
890-5700-3 MS	BH02A	150 S1+	121
890-5700-3 MSD	BH02A	153 S1+	123
890-5700-4	BH03	150 S1+	136 S1+
LCS 880-68165/2-A	Lab Control Sample	100	109
LCSD 880-68165/3-A	Lab Control Sample Dup	101	100
MB 880-68165/1-A	Method Blank	175 S1+	174 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68086/5-A
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68086

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/23 10:20	12/01/23 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/23 10:20	12/01/23 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/23 10:20	12/01/23 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/23 10:20	12/01/23 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/23 10:20	12/01/23 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/23 10:20	12/01/23 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*12/01/23 10:20*	*12/01/23 12:03*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*12/01/23 10:20*	*12/01/23 12:03*	*1*

Lab Sample ID: MB 880-68131/5-A
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68131

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/01/23 13:13	12/01/23 22:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/01/23 13:13	12/01/23 22:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/01/23 13:13	12/01/23 22:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/01/23 13:13	12/01/23 22:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/01/23 13:13	12/01/23 22:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/01/23 13:13	12/01/23 22:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*12/01/23 13:13*	*12/01/23 22:39*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/01/23 13:13*	*12/01/23 22:39*	*1*

Lab Sample ID: LCS 880-68131/1-A
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68131

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09311		mg/Kg		93	70 - 130		
Toluene			0.100	0.08488		mg/Kg		85	70 - 130		
Ethylbenzene			0.100	0.09374		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1921		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09165		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-68131/2-A
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08689		mg/Kg		87	70 - 130	7	35

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

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

Lab Sample ID: LCSD 880-68131/2-A
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68131

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08446		mg/Kg		84	70 - 130	0	35
Ethylbenzene			0.100	0.09403		mg/Kg		94	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1939		mg/Kg		97	70 - 130	1	35
o-Xylene			0.100	0.09334		mg/Kg		93	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-36350-A-1-B MS
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07956		mg/Kg		80	70 - 130
Toluene	<0.00199	U	0.0996	0.07559		mg/Kg		76	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08087		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1630		mg/Kg		82	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07702		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-36350-A-1-C MSD
Matrix: Solid
Analysis Batch: 68081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.07836		mg/Kg		79	70 - 130	2	35
Toluene	<0.00199	U	0.0990	0.07488		mg/Kg		76	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.08028		mg/Kg		81	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1617		mg/Kg		82	70 - 130	1	35
o-Xylene	<0.00199	U	0.0990	0.07687		mg/Kg		78	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

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

Lab Sample ID: MB 880-68165/1-A
Matrix: Solid
Analysis Batch: 68172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68165

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/01/23 16:00	12/02/23 19:59	1

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

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

Lab Sample ID: MB 880-68165/1-A
Matrix: Solid
Analysis Batch: 68172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68165

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/01/23 16:00	12/02/23 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/01/23 16:00	12/02/23 19:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*175*	*S1+*	*70 - 130*	*12/01/23 16:00*	*12/02/23 19:59*	*1*
o-Terphenyl	*174*	*S1+*	*70 - 130*	*12/01/23 16:00*	*12/02/23 19:59*	*1*

Lab Sample ID: LCS 880-68165/2-A
Matrix: Solid
Analysis Batch: 68172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68165

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1011		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1016		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: LCSD 880-68165/3-A
Matrix: Solid
Analysis Batch: 68172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68165

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	946.9		mg/Kg		95	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	920.6		mg/Kg		92	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-5700-3 MS
Matrix: Solid
Analysis Batch: 68172

Client Sample ID: BH02A
Prep Type: Total/NA
Prep Batch: 68165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1255		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1100		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*150*	*S1+*	*70 - 130*
o-Terphenyl	*121*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

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

Lab Sample ID: 890-5700-3 MSD — **Client Sample ID: BH02A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68172 — **Prep Batch: 68165**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1270		mg/Kg		124	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1129		mg/Kg		110	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*153*	*S1+*	*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68075/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 68207

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/02/23 01:30	1

Lab Sample ID: LCS 880-68075/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 68207

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.1		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-68075/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 68207

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	274.4		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 890-5700-1 MS — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 68207

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10200		5000	15480		mg/Kg		106	90 - 110		

Lab Sample ID: 890-5700-1 MSD — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 68207

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10200		5000	15520		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

GC VOA

Analysis Batch: 68081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	8021B	68131
890-5700-2	BH02	Total/NA	Solid	8021B	68131
890-5700-3	BH02A	Total/NA	Solid	8021B	68131
890-5700-4	BH03	Total/NA	Solid	8021B	68131
MB 880-68086/5-A	Method Blank	Total/NA	Solid	8021B	68086
MB 880-68131/5-A	Method Blank	Total/NA	Solid	8021B	68131
LCS 880-68131/1-A	Lab Control Sample	Total/NA	Solid	8021B	68131
LCSD 880-68131/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68131
880-36350-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	68131
880-36350-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68131

Prep Batch: 68086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68086/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 68131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	5035	
890-5700-2	BH02	Total/NA	Solid	5035	
890-5700-3	BH02A	Total/NA	Solid	5035	
890-5700-4	BH03	Total/NA	Solid	5035	
MB 880-68131/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68131/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68131/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36350-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-36350-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 68218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	Total BTEX	
890-5700-2	BH02	Total/NA	Solid	Total BTEX	
890-5700-3	BH02A	Total/NA	Solid	Total BTEX	
890-5700-4	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 68165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	8015NM Prep	
890-5700-2	BH02	Total/NA	Solid	8015NM Prep	
890-5700-3	BH02A	Total/NA	Solid	8015NM Prep	
890-5700-4	BH03	Total/NA	Solid	8015NM Prep	
MB 880-68165/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68165/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5700-3 MS	BH02A	Total/NA	Solid	8015NM Prep	
890-5700-3 MSD	BH02A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	8015B NM	68165

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

GC Semi VOA (Continued)

Analysis Batch: 68172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-2	BH02	Total/NA	Solid	8015B NM	68165
890-5700-3	BH02A	Total/NA	Solid	8015B NM	68165
890-5700-4	BH03	Total/NA	Solid	8015B NM	68165
MB 880-68165/1-A	Method Blank	Total/NA	Solid	8015B NM	68165
LCS 880-68165/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68165
LCSD 880-68165/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68165
890-5700-3 MS	BH02A	Total/NA	Solid	8015B NM	68165
890-5700-3 MSD	BH02A	Total/NA	Solid	8015B NM	68165

Analysis Batch: 68318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Total/NA	Solid	8015 NM	
890-5700-2	BH02	Total/NA	Solid	8015 NM	
890-5700-3	BH02A	Total/NA	Solid	8015 NM	
890-5700-4	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Soluble	Solid	DI Leach	
890-5700-2	BH02	Soluble	Solid	DI Leach	
890-5700-3	BH02A	Soluble	Solid	DI Leach	
890-5700-4	BH03	Soluble	Solid	DI Leach	
MB 880-68075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5700-1 MS	BH01	Soluble	Solid	DI Leach	
890-5700-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 68207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5700-1	BH01	Soluble	Solid	300.0	68075
890-5700-2	BH02	Soluble	Solid	300.0	68075
890-5700-3	BH02A	Soluble	Solid	300.0	68075
890-5700-4	BH03	Soluble	Solid	300.0	68075
MB 880-68075/1-A	Method Blank	Soluble	Solid	300.0	68075
LCS 880-68075/2-A	Lab Control Sample	Soluble	Solid	300.0	68075
LCSD 880-68075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68075
890-5700-1 MS	BH01	Soluble	Solid	300.0	68075
890-5700-1 MSD	BH01	Soluble	Solid	300.0	68075

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH01

Lab Sample ID: 890-5700-1

Date Collected: 11/29/23 13:40
Matrix: Solid
Date Received: 11/29/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	68131	12/01/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68081	12/02/23 00:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68218	12/02/23 00:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			68318	12/03/23 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	68165	12/01/23 16:01	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68172	12/03/23 02:43	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	68075	12/01/23 08:04	SA	EET MID
Soluble	Analysis	300.0		20			68207	12/02/23 01:47	CH	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-5700-2

Date Collected: 11/29/23 13:55
Matrix: Solid
Date Received: 11/29/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	68131	12/01/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68081	12/02/23 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68218	12/02/23 01:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			68318	12/03/23 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68165	12/01/23 16:01	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68172	12/03/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	68075	12/01/23 08:04	SA	EET MID
Soluble	Analysis	300.0		20			68207	12/02/23 02:04	CH	EET MID

Client Sample ID: BH02A

Lab Sample ID: 890-5700-3

Date Collected: 11/29/23 14:10
Matrix: Solid
Date Received: 11/29/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68131	12/01/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68081	12/02/23 01:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68218	12/02/23 01:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			68318	12/02/23 21:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	68165	12/01/23 16:01	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68172	12/02/23 21:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	68075	12/01/23 08:04	SA	EET MID
Soluble	Analysis	300.0		20			68207	12/02/23 02:10	CH	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-5700-4

Date Collected: 11/29/23 14:20
Matrix: Solid
Date Received: 11/29/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	68131	12/01/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68081	12/02/23 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			68218	12/02/23 01:44	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Client Sample ID: BH03

Date Collected: 11/29/23 14:20
Date Received: 11/29/23 16:32

Lab Sample ID: 890-5700-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			68318	12/02/23 22:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	68165	12/01/23 16:01	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68172	12/02/23 22:06	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	68075	12/01/23 08:04	SA	EET MID
Soluble	Analysis	300.0		20			68207	12/02/23 02:15	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5700-1
SDG: 03C1558003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5700-1	BH01	Solid	11/29/23 13:40	11/29/23 16:32	4
890-5700-2	BH02	Solid	11/29/23 13:55	11/29/23 16:32	2
890-5700-3	BH02A	Solid	11/29/23 14:10	11/29/23 16:32	4
890-5700-4	BH03	Solid	11/29/23 14:20	11/29/23 16:32	4

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(337) 257-8307 Email:		Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	03G1558003	☒ Routine ☐ Rush	
Project Location:	32.288606, -103.93570	Due Date:	5 days
Sampler's Name:	Mariaha O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Thmo07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.0
Total Containers:		Corrected Temperature:	5.8

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	BTEX	TPH
BH01	S	11/29/23	13:40	4'	G	1		X	X	X
BH02	S	↓	13:55	2'	G	1		↓	↓	↓
BH02A	S		14:10	4'	G	1				
BH03	S		14:20	4	G	1				

MD

Sample Comments

Incident #:
NAB1836137253

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1			16:32 11/29			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5700-1
SDG Number: 03C1558003

Login Number: 5700
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5700-1
SDG Number: 03C1558003

Login Number: 5700
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/01/23 12:30 PM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Remuda Basin #1
03C1558003

JOB NUMBER

890-5711-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/14/2026 8:09:55 AM

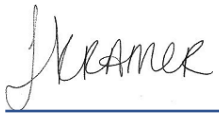
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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12/8/2023 2:39:10 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Remuda Basin #1

Laboratory Job ID: 890-5711-1
SDG: 03C1558003

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Job ID: 890-5711-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5711-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/1/2023 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW83 (890-5711-1) and SW84 (890-5711-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68429 and analytical batch 880-68564 was outside the upper control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-68429 and analytical batch 880-68564 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-68564 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-68564/33).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68547 and analytical batch 880-68559 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68405 and analytical batch 880-68428 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Client Sample ID: SW83

Lab Sample ID: 890-5711-1
Matrix: Solid
Date Collected: 12/01/23 08:55
Date Received: 12/01/23 16:45
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 19:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 19:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 19:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/05/23 14:34	12/07/23 19:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 19:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/05/23 14:34	12/07/23 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*12/05/23 14:34*	*12/07/23 19:58*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*12/05/23 14:34*	*12/07/23 19:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/07/23 19:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/07/23 12:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/06/23 17:12	12/07/23 12:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/06/23 17:12	12/07/23 12:12	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/23 17:12	12/07/23 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/06/23 17:12*	*12/07/23 12:12*	*1*
o-Terphenyl	*89*		*70 - 130*	*12/06/23 17:12*	*12/07/23 12:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.3**	**F1 F2**	5.00		mg/Kg			12/05/23 20:07	1

Client Sample ID: SW84

Lab Sample ID: 890-5711-2
Matrix: Solid
Date Collected: 12/01/23 09:05
Date Received: 12/01/23 16:45
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:34	12/07/23 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:34	12/07/23 20:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:34	12/07/23 20:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/05/23 14:34	12/07/23 20:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/05/23 14:34	12/07/23 20:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/05/23 14:34	12/07/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/05/23 14:34*	*12/07/23 20:18*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Client Sample ID: SW84
Date Collected: 12/01/23 09:05
Date Received: 12/01/23 16:45
Sample Depth: 1

Lab Sample ID: 890-5711-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*12/05/23 14:34*	*12/07/23 20:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/07/23 20:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/07/23 12:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/06/23 17:12	12/07/23 12:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/06/23 17:12	12/07/23 12:35	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/23 17:12	12/07/23 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*12/06/23 17:12*	*12/07/23 12:35*	*1*
o-Terphenyl	*83*		*70 - 130*	*12/06/23 17:12*	*12/07/23 12:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.4**		4.98		mg/Kg			12/05/23 20:24	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36462-A-1-A MS	Matrix Spike	96	105
880-36462-A-1-B MSD	Matrix Spike Duplicate	90	112
890-5711-1	SW83	103	115
890-5711-2	SW84	102	118
LCS 880-68429/1-A	Lab Control Sample	99	108
LCSD 880-68429/2-A	Lab Control Sample Dup	99	101
MB 880-68429/5-A	Method Blank	117	158 S1+

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5711-1	SW83	90	89
890-5711-2	SW84	80	83
890-5712-A-24-D MS	Matrix Spike	95	84
890-5712-A-24-E MSD	Matrix Spike Duplicate	85	84
LCS 880-68547/2-A	Lab Control Sample	93	97
LCSD 880-68547/3-A	Lab Control Sample Dup	80	85
MB 880-68547/1-A	Method Blank	139 S1+	153 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68429/5-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68429

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/05/23 14:34	12/07/23 12:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/05/23 14:34	12/07/23 12:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*12/05/23 14:34*	*12/07/23 12:09*	*1*
1,4-Difluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*12/05/23 14:34*	*12/07/23 12:09*	*1*

Lab Sample ID: LCS 880-68429/1-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68429

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08988		mg/Kg		90	70 - 130		
Toluene			0.100	0.08290		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.07244		mg/Kg		72	70 - 130		
m-Xylene & p-Xylene			0.200	0.1757		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08629		mg/Kg		86	70 - 130		

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

Lab Sample ID: LCSD 880-68429/2-A
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68429

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09849		mg/Kg		98	70 - 130	9	35
Toluene			0.100	0.08693		mg/Kg		87	70 - 130	5	35
Ethylbenzene			0.100	0.08364		mg/Kg		84	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.1979		mg/Kg		99	70 - 130	12	35
o-Xylene			0.100	0.09693		mg/Kg		97	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-36462-A-1-A MS
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0998	0.08638		mg/Kg		87	70 - 130		
Toluene	<0.00198	U	0.0998	0.08162		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

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

Lab Sample ID: 880-36462-A-1-A MS
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U F1	0.0998	0.07035		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1628		mg/Kg		82	70 - 130
o-Xylene	<0.00198	U	0.0998	0.07990		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-36462-A-1-B MSD
Matrix: Solid
Analysis Batch: 68564

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09113		mg/Kg		91	70 - 130	5	35
Toluene	<0.00198	U	0.100	0.08383		mg/Kg		84	70 - 130	3	35
Ethylbenzene	<0.00198	U F1	0.100	0.06397	F1	mg/Kg		64	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1618		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00198	U	0.100	0.07935		mg/Kg		79	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

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

Lab Sample ID: MB 880-68547/1-A
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68547

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/06/23 17:12	12/07/23 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/23 17:12	12/07/23 07:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/23 17:12	12/07/23 07:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*12/06/23 17:12*	*12/07/23 07:53*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*12/06/23 17:12*	*12/07/23 07:53*	*1*

Lab Sample ID: LCS 880-68547/2-A
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68547

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	885.4		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)			1000	946.0		mg/Kg		95	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

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

Lab Sample ID: LCS 880-68547/2-A
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68547

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-68547/3-A
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68547

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	844.5		mg/Kg		84	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	820.6		mg/Kg		82	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-5712-A-24-D MS
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	866.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	887.3		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-5712-A-24-E MSD
Matrix: Solid
Analysis Batch: 68559

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	788.8		mg/Kg		78	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	861.9		mg/Kg		85	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68405/1-A
Matrix: Solid
Analysis Batch: 68428

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/05/23 19:50	1

Lab Sample ID: LCS 880-68405/2-A
Matrix: Solid
Analysis Batch: 68428

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.5		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-68405/3-A
Matrix: Solid
Analysis Batch: 68428

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-5711-1 MS
Matrix: Solid
Analysis Batch: 68428

Client Sample ID: SW83
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	53.3	F1 F2	2750	3395	F1	mg/Kg		122	90 - 110		

Lab Sample ID: 890-5711-1 MSD
Matrix: Solid
Analysis Batch: 68428

Client Sample ID: SW83
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	53.3	F1 F2	250	304.4	F2	mg/Kg		100	90 - 110	167	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

GC VOA

Prep Batch: 68429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	5035	
890-5711-2	SW84	Total/NA	Solid	5035	
MB 880-68429/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68429/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68429/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36462-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-36462-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 68564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	8021B	68429
890-5711-2	SW84	Total/NA	Solid	8021B	68429
MB 880-68429/5-A	Method Blank	Total/NA	Solid	8021B	68429
LCS 880-68429/1-A	Lab Control Sample	Total/NA	Solid	8021B	68429
LCSD 880-68429/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68429
880-36462-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	68429
880-36462-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68429

Analysis Batch: 68693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	Total BTEX	
890-5711-2	SW84	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 68547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	8015NM Prep	
890-5711-2	SW84	Total/NA	Solid	8015NM Prep	
MB 880-68547/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68547/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-68547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5712-A-24-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5712-A-24-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	8015B NM	68547
890-5711-2	SW84	Total/NA	Solid	8015B NM	68547
MB 880-68547/1-A	Method Blank	Total/NA	Solid	8015B NM	68547
LCS 880-68547/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68547
LCSD 880-68547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68547
890-5712-A-24-D MS	Matrix Spike	Total/NA	Solid	8015B NM	68547
890-5712-A-24-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	68547

Analysis Batch: 68657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Total/NA	Solid	8015 NM	
890-5711-2	SW84	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

HPLC/IC

Leach Batch: 68405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Soluble	Solid	DI Leach	
890-5711-2	SW84	Soluble	Solid	DI Leach	
MB 880-68405/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68405/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68405/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5711-1 MS	SW83	Soluble	Solid	DI Leach	
890-5711-1 MSD	SW83	Soluble	Solid	DI Leach	

Analysis Batch: 68428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5711-1	SW83	Soluble	Solid	300.0	68405
890-5711-2	SW84	Soluble	Solid	300.0	68405
MB 880-68405/1-A	Method Blank	Soluble	Solid	300.0	68405
LCS 880-68405/2-A	Lab Control Sample	Soluble	Solid	300.0	68405
LCSD 880-68405/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68405
890-5711-1 MS	SW83	Soluble	Solid	300.0	68405
890-5711-1 MSD	SW83	Soluble	Solid	300.0	68405

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Client Sample ID: SW83

Date Collected: 12/01/23 08:55
Date Received: 12/01/23 16:45

Lab Sample ID: 890-5711-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	68429	12/05/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/07/23 19:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68693	12/07/23 19:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			68657	12/07/23 12:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	68547	12/06/23 17:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68559	12/07/23 12:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	68405	12/05/23 11:13	SMC	EET MID
Soluble	Analysis	300.0		1			68428	12/05/23 20:07	CH	EET MID

Client Sample ID: SW84

Date Collected: 12/01/23 09:05
Date Received: 12/01/23 16:45

Lab Sample ID: 890-5711-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	68429	12/05/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68564	12/07/23 20:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			68693	12/07/23 20:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			68657	12/07/23 12:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	68547	12/06/23 17:12	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68559	12/07/23 12:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68405	12/05/23 11:13	SMC	EET MID
Soluble	Analysis	300.0		1			68428	12/05/23 20:24	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5711-1
SDG: 03C1558003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5711-1	SW83	Solid	12/01/23 08:55	12/01/23 16:45	1
890-5711-2	SW84	Solid	12/01/23 09:05	12/01/23 16:45	1

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
~~Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199~~

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	3122 National Parks Hwy	Company Name:	XTO Energy
Address:	Ensolum, LLC	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(337) 257-8307	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	03C155 8003	☒ Routine ☐ Rush	
Project Location:	32.288106, -103.93570	Due Date:	5 days
Sampler's Name:	Mariaha O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TVM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.4

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	TPH	BTEX
SW83	S	12/1/23	8:55	0-4'	G	1		X	X	X
SW84	S	12/1/23	9:05	0-4'	G	1		X	X	X

ANALYSIS REQUEST

890-5711 Chain of Custody

NO

Sample Comments

Incident #:
NAB1836137253

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1 M. O'Dell	abreln	16:44 12/1/23	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5711-1
SDG Number: 03C1558003

Login Number: 5711
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5711-1
SDG Number: 03C1558003

Login Number: 5711
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/05/23 11:35 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/13/2023 12:29:52 PM Revision 1

JOB DESCRIPTION

Remuda Basin 1
03C1558003

JOB NUMBER

890-5744-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 4/14/2026 8:09:55 AM

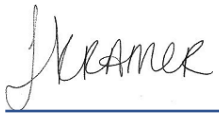
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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12/13/2023 12:29:52 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Remuda Basin 1

Laboratory Job ID: 890-5744-1
SDG: 03C1558003

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Definitions/Glossary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Job ID: 890-5744-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5744-1

REVISION

The report being provided is a revision of the original report sent on 12/13/2023. The report (revision 1) is being revised due to Per client email, requesting project ID be corrected to match COC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/7/2023 8:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW85 (890-5744-1), SW86 (890-5744-2) and SW87 (890-5744-3).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SW85 (890-5744-1) and (880-36696-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68939 and analytical batch 880-68889 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68662 and analytical batch 880-68639 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-36670-A-1-B MS) and (880-36670-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68662 and analytical batch 880-68639 were outside control limits for one or more analytes due to an incorrect amount of spike added. The associated laboratory control sample (LCS) recovery is within acceptance limits therefore the data has been qualified and reported.

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

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

Case Narrative

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Job ID: 890-5744-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Client Sample ID: SW85

Date Collected: 12/06/23 12:30
Date Received: 12/07/23 08:25
Sample Depth: 0-4

Lab Sample ID: 890-5744-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/12/23 14:14	12/13/23 03:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/12/23 14:14	12/13/23 03:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/12/23 14:14	12/13/23 03:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/12/23 14:14	12/13/23 03:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/12/23 14:14	12/13/23 03:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/12/23 14:14	12/13/23 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/12/23 14:14*	*12/13/23 03:20*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/12/23 14:14*	*12/13/23 03:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/13/23 03:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			12/08/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		12/08/23 11:54	12/08/23 16:26	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		12/08/23 11:54	12/08/23 16:26	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		12/08/23 11:54	12/08/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/08/23 11:54*	*12/08/23 16:26*	*1*
o-Terphenyl	*99*		*70 - 130*	*12/08/23 11:54*	*12/08/23 16:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		5.02		mg/Kg			12/11/23 17:08	1

Client Sample ID: SW86

Date Collected: 12/06/23 10:25
Date Received: 12/07/23 08:25
Sample Depth: 0-4

Lab Sample ID: 890-5744-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/12/23 14:14	12/13/23 03:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/12/23 14:14	12/13/23 03:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/12/23 14:14	12/13/23 03:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/12/23 14:14	12/13/23 03:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/12/23 14:14	12/13/23 03:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/12/23 14:14	12/13/23 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*12/12/23 14:14*	*12/13/23 03:40*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Client Sample ID: SW86
Date Collected: 12/06/23 10:25
Date Received: 12/07/23 08:25
Sample Depth: 0-4

Lab Sample ID: 890-5744-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*12/12/23 14:14*	*12/13/23 03:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/13/23 03:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			12/08/23 16:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		12/08/23 11:54	12/08/23 16:49	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		12/08/23 11:54	12/08/23 16:49	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		12/08/23 11:54	12/08/23 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*12/08/23 11:54*	*12/08/23 16:49*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/08/23 11:54*	*12/08/23 16:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		4.98	mg/Kg			12/11/23 17:14	1

Client Sample ID: SW87
Date Collected: 12/06/23 12:35
Date Received: 12/07/23 08:25
Sample Depth: 0-4

Lab Sample ID: 890-5744-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/12/23 14:14	12/13/23 04:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/12/23 14:14	12/13/23 04:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/12/23 14:14	12/13/23 04:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/12/23 14:14	12/13/23 04:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/12/23 14:14	12/13/23 04:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/12/23 14:14	12/13/23 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/12/23 14:14*	*12/13/23 04:01*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/12/23 14:14*	*12/13/23 04:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/13/23 04:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			12/08/23 17:17	1

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Client Sample ID: SW87

Date Collected: 12/06/23 12:35
Date Received: 12/07/23 08:25
Sample Depth: 0-4

Lab Sample ID: 890-5744-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/08/23 11:54	12/08/23 17:17	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/08/23 11:54	12/08/23 17:17	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/08/23 11:54	12/08/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*12/08/23 11:54*	*12/08/23 17:17*	*1*
o-Terphenyl	*99*		*70 - 130*	*12/08/23 11:54*	*12/08/23 17:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		5.02		mg/Kg			12/11/23 17:34	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-36696-A-1-B MS	Matrix Spike	96	109
880-36696-A-1-C MSD	Matrix Spike Duplicate	284 S1+	115
890-5744-1	SW85	101	135 S1+
890-5744-2	SW86	94	120
890-5744-3	SW87	92	113
LCS 880-68939/1-A	Lab Control Sample	105	108
LCSD 880-68939/2-A	Lab Control Sample Dup	109	107
MB 880-68892/5-A	Method Blank	96	129
MB 880-68939/5-A	Method Blank	97	126

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-36670-A-1-B MS	Matrix Spike	1759 S1+	1833 S1+
880-36670-A-1-C MSD	Matrix Spike Duplicate	1540 S1+	1621 S1+
890-5744-1	SW85	90	99
890-5744-2	SW86	83	93
890-5744-3	SW87	90	99
LCS 880-68662/2-A	Lab Control Sample	90	94
LCSD 880-68662/3-A	Lab Control Sample Dup	91	91
MB 880-68662/1-A	Method Blank	110	136 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68892/5-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68892

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 11:20	12/12/23 13:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/23 11:20	12/12/23 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/12/23 11:20*	*12/12/23 13:31*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*12/12/23 11:20*	*12/12/23 13:31*	*1*

Lab Sample ID: MB 880-68939/5-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68939

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/12/23 14:14	12/13/23 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/12/23 14:14	12/13/23 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/12/23 14:14	12/13/23 01:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/12/23 14:14	12/13/23 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/12/23 14:14	12/13/23 01:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/12/23 14:14	12/13/23 01:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/12/23 14:14*	*12/13/23 01:08*	*1*
1,4-Difluorobenzene (Surr)	*126*		*70 - 130*	*12/12/23 14:14*	*12/13/23 01:08*	*1*

Lab Sample ID: LCS 880-68939/1-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68939

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1114		mg/Kg		111	70 - 130		
Toluene			0.100	0.08287		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.09277		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1932		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.08630		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-68939/2-A
Matrix: Solid
Analysis Batch: 68889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68939

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1109		mg/Kg		111	70 - 130	0	35

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

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

Lab Sample ID: LCSD 880-68939/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68889 — **Prep Batch: 68939**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08644		mg/Kg		86	70 - 130	4	35
Ethylbenzene			0.100	0.08159		mg/Kg		82	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.1643		mg/Kg		82	70 - 130	16	35
o-Xylene			0.100	0.08991		mg/Kg		90	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-36696-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68889 — **Prep Batch: 68939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0998	0.05769	F1	mg/Kg		58	70 - 130
Toluene	<0.00201	U F1 F2	0.0998	0.04349	F1	mg/Kg		43	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.04087	F1	mg/Kg		41	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1017	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00201	U F1 F2	0.0998	0.04858	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-36696-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68889 — **Prep Batch: 68939**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.04872	F1	mg/Kg		49	70 - 130	17	35
Toluene	<0.00201	U F1 F2	0.0994	0.02324	F1 F2	mg/Kg		23	70 - 130	61	35
Ethylbenzene	<0.00201	U F1	0.0994	0.04013	F1	mg/Kg		40	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1209	F1	mg/Kg		60	70 - 130	17	35
o-Xylene	<0.00201	U F1 F2	0.0994	0.07162	F2	mg/Kg		71	70 - 130	38	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*284*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

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

Lab Sample ID: MB 880-68662/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 68639 — **Prep Batch: 68662**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/08/23 07:51	12/08/23 08:18	1

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

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

Lab Sample ID: MB 880-68662/1-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68662

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/08/23 07:51	12/08/23 08:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/08/23 07:51	12/08/23 08:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*12/08/23 07:51*	*12/08/23 08:18*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*12/08/23 07:51*	*12/08/23 08:18*	*1*

Lab Sample ID: LCS 880-68662/2-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	873.4		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	891.9		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-68662/3-A
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	949.2		mg/Kg		95	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	934.8		mg/Kg		93	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: 880-36670-A-1-B MS
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 68662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	1000	326.6	F1	mg/Kg		29	70 - 130		
Diesel Range Organics (Over C10-C28)	356	F1	1000	195.2	F1	mg/Kg		-16	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*1759*	*S1+*	*70 - 130*
o-Terphenyl	*1833*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

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

Lab Sample ID: 880-36670-A-1-C MSD
Matrix: Solid
Analysis Batch: 68639

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 68662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 F2	1000	250.6	F1 F2	mg/Kg		21	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	356	F1	1000	199.6	F1	mg/Kg		-16	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*1540*	*S1+*	*70 - 130*
o-Terphenyl	*1621*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68794/1-A
Matrix: Solid
Analysis Batch: 68825

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/11/23 14:35	1

Lab Sample ID: LCS 880-68794/2-A
Matrix: Solid
Analysis Batch: 68825

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-68794/3-A
Matrix: Solid
Analysis Batch: 68825

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-5744-2 MS
Matrix: Solid
Analysis Batch: 68825

Client Sample ID: SW86
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	185		249	434.6		mg/Kg		100	90 - 110		

Lab Sample ID: 890-5744-2 MSD
Matrix: Solid
Analysis Batch: 68825

Client Sample ID: SW86
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	185		249	432.4		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

GC VOA

Analysis Batch: 68889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	8021B	68939
890-5744-2	SW86	Total/NA	Solid	8021B	68939
890-5744-3	SW87	Total/NA	Solid	8021B	68939
MB 880-68892/5-A	Method Blank	Total/NA	Solid	8021B	68892
MB 880-68939/5-A	Method Blank	Total/NA	Solid	8021B	68939
LCS 880-68939/1-A	Lab Control Sample	Total/NA	Solid	8021B	68939
LCSD 880-68939/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	68939
880-36696-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	68939
880-36696-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	68939

Prep Batch: 68892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-68892/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 68939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	5035	
890-5744-2	SW86	Total/NA	Solid	5035	
890-5744-3	SW87	Total/NA	Solid	5035	
MB 880-68939/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-68939/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-68939/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-36696-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-36696-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 69011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	Total BTEX	
890-5744-2	SW86	Total/NA	Solid	Total BTEX	
890-5744-3	SW87	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 68639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	8015B NM	68662
890-5744-2	SW86	Total/NA	Solid	8015B NM	68662
890-5744-3	SW87	Total/NA	Solid	8015B NM	68662
MB 880-68662/1-A	Method Blank	Total/NA	Solid	8015B NM	68662
LCS 880-68662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	68662
LCSD 880-68662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	68662
880-36670-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	68662
880-36670-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	68662

Prep Batch: 68662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	8015NM Prep	
890-5744-2	SW86	Total/NA	Solid	8015NM Prep	
890-5744-3	SW87	Total/NA	Solid	8015NM Prep	
MB 880-68662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-68662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

GC Semi VOA (Continued)

Prep Batch: 68662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-68662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36670-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-36670-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 68797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Total/NA	Solid	8015 NM	
890-5744-2	SW86	Total/NA	Solid	8015 NM	
890-5744-3	SW87	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 68794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Soluble	Solid	DI Leach	
890-5744-2	SW86	Soluble	Solid	DI Leach	
890-5744-3	SW87	Soluble	Solid	DI Leach	
MB 880-68794/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-68794/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-68794/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5744-2 MS	SW86	Soluble	Solid	DI Leach	
890-5744-2 MSD	SW86	Soluble	Solid	DI Leach	

Analysis Batch: 68825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5744-1	SW85	Soluble	Solid	300.0	68794
890-5744-2	SW86	Soluble	Solid	300.0	68794
890-5744-3	SW87	Soluble	Solid	300.0	68794
MB 880-68794/1-A	Method Blank	Soluble	Solid	300.0	68794
LCS 880-68794/2-A	Lab Control Sample	Soluble	Solid	300.0	68794
LCSD 880-68794/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	68794
890-5744-2 MS	SW86	Soluble	Solid	300.0	68794
890-5744-2 MSD	SW86	Soluble	Solid	300.0	68794

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Client Sample ID: SW85
Date Collected: 12/06/23 12:30
Date Received: 12/07/23 08:25

Lab Sample ID: 890-5744-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	68939	12/12/23 14:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/13/23 03:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69011	12/13/23 03:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			68797	12/08/23 16:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	68662	12/08/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68639	12/08/23 16:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68794	12/11/23 10:29	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68825	12/11/23 17:08	CH	EET MID

Client Sample ID: SW86
Date Collected: 12/06/23 10:25
Date Received: 12/07/23 08:25

Lab Sample ID: 890-5744-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	68939	12/12/23 14:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/13/23 03:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69011	12/13/23 03:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			68797	12/08/23 16:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	68662	12/08/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68639	12/08/23 16:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	68794	12/11/23 10:29	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68825	12/11/23 17:14	CH	EET MID

Client Sample ID: SW87
Date Collected: 12/06/23 12:35
Date Received: 12/07/23 08:25

Lab Sample ID: 890-5744-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	68939	12/12/23 14:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	68889	12/13/23 04:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			69011	12/13/23 04:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			68797	12/08/23 17:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	68662	12/08/23 11:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	68639	12/08/23 17:17	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	68794	12/11/23 10:29	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	68825	12/11/23 17:34	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Basin 1

Job ID: 890-5744-1
SDG: 03C1558003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5744-1	SW85	Solid	12/06/23 12:30	12/07/23 08:25	0-4
890-5744-2	SW86	Solid	12/06/23 10:25	12/07/23 08:25	0-4
890-5744-3	SW87	Solid	12/06/23 12:35	12/07/23 08:25	0-4

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

12/13/2023 (Rev. 1)

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin 1	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558003	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.6
~~Total Containers:~~		Corrected Temperature:	0.4

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
~~Zn Acetate+NaOH~~: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
SW85	S	12/6/23	1230	0-4'	C	1			
SW86	↓	↓	1025	0-4'	C	1			
SW87	↓	↓	1235	0-4'	C	1			

Sample Comments

Incident ID: NAB1836137253
Cost Center: 1674481001
AFE: EW.2019.08149.EXP.01

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1		8:25 12/7	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 12/11/2025 7:09:27 AM

Released to Imaging: 4/14/2026 8:09:55 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5744-1
SDG Number: 03C1558003

Login Number: 5744
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5744-1
SDG Number: 03C1558003

Login Number: 5744
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/08/23 10:59 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/19/2023 9:18:21 AM

JOB DESCRIPTION

Remuda Basin #1
03C1558004

JOB NUMBER

890-5801-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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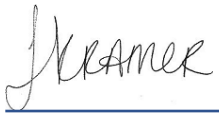
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Remuda Basin #1

Laboratory Job ID: 890-5801-1
SDG: 03C1558004

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Definitions/Glossary

Client: Ensolum Job ID: 890-5801-1
Project/Site: Remuda Basin #1 SDG: 03C1558004

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Remuda Basin #1

Job ID: 890-5801-1

Job ID: 890-5801-1 Eurofins Carlsbad

Job Narrative
890-5801-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/14/2023 1:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS 68 (890-5801-1), FS 69 (890-5801-2), SW 88 (890-5801-3) and SW 89 (890-5801-4).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-69165/2) and (CCV 880-69165/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 68 (890-5801-1), FS 69 (890-5801-2), SW 88 (890-5801-3), SW 89 (890-5801-4), (CCV 880-69165/51), (CCV 880-69165/64), (LCS 880-69217/1-A), (LCSD 880-69217/2-A), (MB 880-69217/5-A), (880-37011-A-1-C), (880-37011-A-1-A MS) and (880-37011-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-69214 and analytical batch 880-69154 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 68 (890-5801-1), FS 69 (890-5801-2), SW 88 (890-5801-3), SW 89 (890-5801-4), (880-36940-A-5-B), (880-36940-A-5-C MS) and (880-36940-A-5-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-69214 and analytical batch 880-69154 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: FS 68

Date Collected: 12/14/23 09:00
Date Received: 12/14/23 13:54
Sample Depth: 4'

Lab Sample ID: 890-5801-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/15/23 14:26	12/16/23 10:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/15/23 14:26	12/16/23 10:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/15/23 14:26	12/16/23 10:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/15/23 14:26	12/16/23 10:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/15/23 14:26	12/16/23 10:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/15/23 14:26	12/16/23 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*12/15/23 14:26*	*12/16/23 10:32*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/15/23 14:26*	*12/16/23 10:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/16/23 10:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			12/16/23 03:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		12/15/23 13:31	12/16/23 03:58	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		12/15/23 13:31	12/16/23 03:58	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		12/15/23 13:31	12/16/23 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 03:58*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 03:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		25.3		mg/Kg			12/18/23 12:23	5

Client Sample ID: FS 69

Date Collected: 12/14/23 10:55
Date Received: 12/14/23 13:54
Sample Depth: 4'

Lab Sample ID: 890-5801-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 10:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 10:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 10:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/15/23 14:26	12/16/23 10:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 10:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/15/23 14:26	12/16/23 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*12/15/23 14:26*	*12/16/23 10:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: FS 69

Lab Sample ID: 890-5801-2
Matrix: Solid
Date Collected: 12/14/23 10:55
Date Received: 12/14/23 13:54
Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*12/15/23 14:26*	*12/16/23 10:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/16/23 10:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/16/23 04:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/15/23 13:31	12/16/23 04:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/15/23 13:31	12/16/23 04:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/15/23 13:31	12/16/23 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 04:20*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 04:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		4.97	mg/Kg			12/18/23 13:36	1

Client Sample ID: SW 88

Lab Sample ID: 890-5801-3
Matrix: Solid
Date Collected: 12/14/23 09:30
Date Received: 12/14/23 13:54
Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/15/23 14:26	12/16/23 11:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/15/23 14:26	12/16/23 11:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/15/23 14:26	12/16/23 11:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/15/23 14:26	12/16/23 11:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/15/23 14:26	12/16/23 11:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/15/23 14:26	12/16/23 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*12/15/23 14:26*	*12/16/23 11:26*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/15/23 14:26*	*12/16/23 11:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/16/23 11:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			12/16/23 04:41	1

Eurofins Carlsbad

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Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: SW 88

Lab Sample ID: 890-5801-3
Matrix: Solid
Date Collected: 12/14/23 09:30
Date Received: 12/14/23 13:54
Sample Depth: 0-4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/15/23 13:31	12/16/23 04:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/15/23 13:31	12/16/23 04:41	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/15/23 13:31	12/16/23 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 04:41*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 04:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		5.02		mg/Kg			12/18/23 12:33	1

Client Sample ID: SW 89

Lab Sample ID: 890-5801-4
Matrix: Solid
Date Collected: 12/14/23 10:50
Date Received: 12/14/23 13:54
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 11:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/15/23 14:26	12/16/23 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 11:53	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/15/23 14:26	12/16/23 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*186*	*S1+*	*70 - 130*	*12/15/23 14:26*	*12/16/23 11:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*12/15/23 14:26*	*12/16/23 11:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/16/23 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/16/23 05:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/16/23 05:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/16/23 05:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/16/23 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 05:03*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/16/23 05:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: SW 89
Date Collected: 12/14/23 10:50
Date Received: 12/14/23 13:54
Sample Depth: 0-4

Lab Sample ID: 890-5801-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	326		5.01		mg/Kg			12/18/23 12:38	1

Surrogate Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37011-A-1-A MS	Matrix Spike	212 S1+	86
880-37011-A-1-B MSD	Matrix Spike Duplicate	195 S1+	79
890-5801-1	FS 68	135 S1+	86
890-5801-2	FS 69	161 S1+	81
890-5801-3	SW 88	164 S1+	96
890-5801-4	SW 89	186 S1+	83
LCS 880-69217/1-A	Lab Control Sample	166 S1+	113
LCSD 880-69217/2-A	Lab Control Sample Dup	181 S1+	84
MB 880-69166/5-A	Method Blank	97	87
MB 880-69217/5-A	Method Blank	110	79

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-36940-A-5-C MS	Matrix Spike	174 S1+	119
880-36940-A-5-D MSD	Matrix Spike Duplicate	178 S1+	120
890-5801-1	FS 68	168 S1+	144 S1+
890-5801-2	FS 69	161 S1+	138 S1+
890-5801-3	SW 88	163 S1+	140 S1+
890-5801-4	SW 89	168 S1+	145 S1+
LCS 880-69214/2-A	Lab Control Sample	83	92
LCSD 880-69214/3-A	Lab Control Sample Dup	90	81
MB 880-69214/1-A	Method Blank	133 S1+	122

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69166/5-A
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69166

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/23 08:22	12/15/23 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/23 08:22	12/15/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/23 08:22	12/15/23 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/15/23 08:22	12/15/23 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/23 08:22	12/15/23 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/15/23 08:22	12/15/23 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/15/23 08:22*	*12/15/23 12:07*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/15/23 08:22*	*12/15/23 12:07*	*1*

Lab Sample ID: MB 880-69217/5-A
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69217

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 01:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 01:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 01:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/15/23 14:26	12/16/23 01:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/15/23 14:26	12/16/23 01:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/15/23 14:26	12/16/23 01:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/15/23 14:26*	*12/16/23 01:40*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*12/15/23 14:26*	*12/16/23 01:40*	*1*

Lab Sample ID: LCS 880-69217/1-A
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69217

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09389		mg/Kg		94	70 - 130		
Toluene			0.100	0.1032		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.1044		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2052		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-69217/2-A
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1070		mg/Kg		107	70 - 130	13	35

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

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

Lab Sample ID: LCSD 880-69217/2-A
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1026		mg/Kg		103	70 - 130	1	35
Ethylbenzene			0.100	0.1144		mg/Kg		114	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2259		mg/Kg		113	70 - 130	10	35
o-Xylene			0.100	0.1095		mg/Kg		109	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*181*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-37011-A-1-A MS
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1052		mg/Kg		106	70 - 130
Toluene	<0.00201	U	0.0996	0.1263		mg/Kg		127	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.1153		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2334		mg/Kg		117	70 - 130
o-Xylene	<0.00201	U	0.0996	0.1173		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*212*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-37011-A-1-B MSD
Matrix: Solid
Analysis Batch: 69165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.08354		mg/Kg		84	70 - 130	23	35
Toluene	<0.00201	U	0.0998	0.1082		mg/Kg		108	70 - 130	15	35
Ethylbenzene	<0.00201	U	0.0998	0.1039		mg/Kg		104	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2018		mg/Kg		101	70 - 130	15	35
o-Xylene	<0.00201	U	0.0998	0.1020		mg/Kg		102	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*195*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

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

Lab Sample ID: MB 880-69214/1-A
Matrix: Solid
Analysis Batch: 69154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69214

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/15/23 20:03	1

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QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

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

Lab Sample ID: MB 880-69214/1-A
Matrix: Solid
Analysis Batch: 69154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69214

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/15/23 20:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/23 13:31	12/15/23 20:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*12/15/23 13:31*	*12/15/23 20:03*	*1*
o-Terphenyl	*122*		*70 - 130*	*12/15/23 13:31*	*12/15/23 20:03*	*1*

Lab Sample ID: LCS 880-69214/2-A
Matrix: Solid
Analysis Batch: 69154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69214

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	884.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	757.5		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: LCSD 880-69214/3-A
Matrix: Solid
Analysis Batch: 69154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69214

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	976.9		mg/Kg		98	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	917.2		mg/Kg		92	70 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-36940-A-5-C MS
Matrix: Solid
Analysis Batch: 69154

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1035		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1549	F1	mg/Kg		151	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*174*	*S1+*	*70 - 130*
o-Terphenyl	*119*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

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

Lab Sample ID: 880-36940-A-5-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 69154 — **Prep Batch: 69214**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1100		mg/Kg		106	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1	1010	1609	F1	mg/Kg		157	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*178*	*S1+*	*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-69213/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 69304

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/18/23 10:22	1

Lab Sample ID: LCS 880-69213/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 69304

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.7		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-69213/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 69304

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.8		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-36982-A-15-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 69304

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1430		1250	2720		mg/Kg		103	90 - 110		

Lab Sample ID: 880-36982-A-15-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 69304

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1430		1250	2704		mg/Kg		102	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-36992-A-7-B MS
Matrix: Solid
Analysis Batch: 69304

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<4.95	U	248	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: 880-36992-A-7-C MSD
Matrix: Solid
Analysis Batch: 69304

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.95	U	248	244.2		mg/Kg		98	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

GC VOA

Analysis Batch: 69165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	8021B	69217
890-5801-2	FS 69	Total/NA	Solid	8021B	69217
890-5801-3	SW 88	Total/NA	Solid	8021B	69217
890-5801-4	SW 89	Total/NA	Solid	8021B	69217
MB 880-69166/5-A	Method Blank	Total/NA	Solid	8021B	69166
MB 880-69217/5-A	Method Blank	Total/NA	Solid	8021B	69217
LCS 880-69217/1-A	Lab Control Sample	Total/NA	Solid	8021B	69217
LCSD 880-69217/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	69217
880-37011-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	69217
880-37011-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	69217

Prep Batch: 69166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69166/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 69217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	5035	
890-5801-2	FS 69	Total/NA	Solid	5035	
890-5801-3	SW 88	Total/NA	Solid	5035	
890-5801-4	SW 89	Total/NA	Solid	5035	
MB 880-69217/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-69217/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-69217/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37011-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-37011-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 69357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	Total BTEX	
890-5801-2	FS 69	Total/NA	Solid	Total BTEX	
890-5801-3	SW 88	Total/NA	Solid	Total BTEX	
890-5801-4	SW 89	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 69154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	8015B NM	69214
890-5801-2	FS 69	Total/NA	Solid	8015B NM	69214
890-5801-3	SW 88	Total/NA	Solid	8015B NM	69214
890-5801-4	SW 89	Total/NA	Solid	8015B NM	69214
MB 880-69214/1-A	Method Blank	Total/NA	Solid	8015B NM	69214
LCS 880-69214/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69214
LCSD 880-69214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69214
880-36940-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	69214
880-36940-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69214

Prep Batch: 69214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

GC Semi VOA (Continued)

Prep Batch: 69214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-2	FS 69	Total/NA	Solid	8015NM Prep	
890-5801-3	SW 88	Total/NA	Solid	8015NM Prep	
890-5801-4	SW 89	Total/NA	Solid	8015NM Prep	
MB 880-69214/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69214/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69214/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-36940-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-36940-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 69307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Total/NA	Solid	8015 NM	
890-5801-2	FS 69	Total/NA	Solid	8015 NM	
890-5801-3	SW 88	Total/NA	Solid	8015 NM	
890-5801-4	SW 89	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 69213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Soluble	Solid	DI Leach	
890-5801-2	FS 69	Soluble	Solid	DI Leach	
890-5801-3	SW 88	Soluble	Solid	DI Leach	
890-5801-4	SW 89	Soluble	Solid	DI Leach	
MB 880-69213/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-69213/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-69213/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-36982-A-15-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36982-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-36992-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-36992-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 69304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5801-1	FS 68	Soluble	Solid	300.0	69213
890-5801-2	FS 69	Soluble	Solid	300.0	69213
890-5801-3	SW 88	Soluble	Solid	300.0	69213
890-5801-4	SW 89	Soluble	Solid	300.0	69213
MB 880-69213/1-A	Method Blank	Soluble	Solid	300.0	69213
LCS 880-69213/2-A	Lab Control Sample	Soluble	Solid	300.0	69213
LCSD 880-69213/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	69213
880-36982-A-15-C MS	Matrix Spike	Soluble	Solid	300.0	69213
880-36982-A-15-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	69213
880-36992-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	69213
880-36992-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	69213

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: FS 68

Lab Sample ID: 890-5801-1

Date Collected: 12/14/23 09:00
Matrix: Solid
Date Received: 12/14/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	69217	12/15/23 14:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69165	12/16/23 10:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69357	12/16/23 10:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			69307	12/16/23 03:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	69214	12/15/23 13:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69154	12/16/23 03:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69213	12/15/23 13:12	SA	EET MID
Soluble	Analysis	300.0		5			69304	12/18/23 12:23	CH	EET MID

Client Sample ID: FS 69

Lab Sample ID: 890-5801-2

Date Collected: 12/14/23 10:55
Matrix: Solid
Date Received: 12/14/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	69217	12/15/23 14:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69165	12/16/23 10:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69357	12/16/23 10:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			69307	12/16/23 04:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	69214	12/15/23 13:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69154	12/16/23 04:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	69213	12/15/23 13:12	SA	EET MID
Soluble	Analysis	300.0		1			69304	12/18/23 13:36	CH	EET MID

Client Sample ID: SW 88

Lab Sample ID: 890-5801-3

Date Collected: 12/14/23 09:30
Matrix: Solid
Date Received: 12/14/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	69217	12/15/23 14:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69165	12/16/23 11:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69357	12/16/23 11:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			69307	12/16/23 04:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	69214	12/15/23 13:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69154	12/16/23 04:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	69213	12/15/23 13:12	SA	EET MID
Soluble	Analysis	300.0		1			69304	12/18/23 12:33	CH	EET MID

Client Sample ID: SW 89

Lab Sample ID: 890-5801-4

Date Collected: 12/14/23 10:50
Matrix: Solid
Date Received: 12/14/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	69217	12/15/23 14:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69165	12/16/23 11:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69357	12/16/23 11:53	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Client Sample ID: SW 89

Date Collected: 12/14/23 10:50
Date Received: 12/14/23 13:54

Lab Sample ID: 890-5801-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			69307	12/16/23 05:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	69214	12/15/23 13:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69154	12/16/23 05:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	69213	12/15/23 13:12	SA	EET MID
Soluble	Analysis	300.0		1			69304	12/18/23 12:38	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Remuda Basin #1

Job ID: 890-5801-1
SDG: 03C1558004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5801-1	FS 68	Solid	12/14/23 09:00	12/14/23 13:54	4'
890-5801-2	FS 69	Solid	12/14/23 10:55	12/14/23 13:54	4'
890-5801-3	SW 88	Solid	12/14/23 09:30	12/14/23 13:54	0-4'
890-5801-4	SW 89	Solid	12/14/23 10:50	12/14/23 13:54	0-4

Released to Imaging: 4/14/2026 8:09:55 AM
Received by OCD: 12/11/2025 7:09:27 AM

Chain of Custody

eurofins | Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337 257 8307	Email:	Garrett.Greene@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Remuda Basin #1	Turn Around	
Project Number:	03C1558004	☒ Routine ☐ Rush	
Project Location:	32.288606, -103.93570	Due Date:	5 days
Sampler's Name:	Mariana O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0
Total Containers:		Corrected Temperature:	4.8

ANALYSIS REQUEST

Parameters: Chlorides; BTEX; TPH

890-5801 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides	BTEX	TPH
FS108	S	12/14/23	9:00	4'	C	1	X	X	X
FS109	S		10:55	4'	C	1			
SW88	S		9:30	0-4'	C	1			
SW89	S		10:50	0-4'	C	1			

Sample Comments

Incident #:
NAB1836137253

tmorrissey@ensolum.com

MD

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins 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
1			12/14 1354			
3						
5						

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 4/14/2026 8:09:55 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5801-1
SDG Number: 03C1558004

Login Number: 5801
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5801-1
SDG Number: 03C1558004

Login Number: 5801
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/15/23 11:41 AM

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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 02, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN 1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP 03 6	H247117-11	Soil	20-Nov-24 14:40	21-Nov-24 13:30
DP 03A 10	H247117-12	Soil	20-Nov-24 14:40	21-Nov-24 13:30
DP 03B 16	H247117-13	Soil	20-Nov-24 15:15	21-Nov-24 13:30

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

DP 03 6

H247117-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**10400**		16.0	mg/kg	4	4112217	CT	22-Nov-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112141*	JH	*21-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*98.6 %*	*48.2-134*		*4112137*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.0 %*	*49.1-148*		*4112137*	MS	*22-Nov-24*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

DP 03A 10

H247117-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**5860**		16.0	mg/kg	4	4112217	CT	22-Nov-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112141*	JH	*21-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*86.3 %*	*48.2-134*		*4112137*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.9 %*	*49.1-148*		*4112137*	MS	*22-Nov-24*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

DP 03B 16

H247117-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1040**		16.0	mg/kg	4	4112219	KV	22-Nov-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4112141	JH	21-Nov-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*4112141*	JH	*21-Nov-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4112137	MS	22-Nov-24	8015B	
Surrogate: 1-Chlorooctane			*91.1 %*	*48.2-134*		*4112137*	MS	*22-Nov-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.5 %*	*49.1-148*		*4112137*	MS	*22-Nov-24*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112217 - 1:4 DI Water										
Blank (4112217-BLK1)				Prepared & Analyzed: 22-Nov-24						
Chloride	ND	16.0	mg/kg							
LCS (4112217-BS1)				Prepared & Analyzed: 22-Nov-24						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (4112217-BSD1)				Prepared & Analyzed: 22-Nov-24						
Chloride	416	16.0	mg/kg	400		104	80-120	7.41	20	
Batch 4112219 - 1:4 DI Water										
Blank (4112219-BLK1)				Prepared & Analyzed: 22-Nov-24						
Chloride	ND	16.0	mg/kg							
LCS (4112219-BS1)				Prepared & Analyzed: 22-Nov-24						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4112219-BSD1)				Prepared & Analyzed: 22-Nov-24						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112141 - Volatiles										
Blank (4112141-BLK1)				Prepared & Analyzed: 21-Nov-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS (4112141-BS1)				Prepared & Analyzed: 21-Nov-24						
Benzene	1.99	0.050	mg/kg	2.00		99.4	82.8-130			
Toluene	2.03	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	85.9-128			
m,p-Xylene	4.02	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.93	0.050	mg/kg	2.00		96.6	86.1-125			
Total Xylenes	5.95	0.150	mg/kg	6.00		99.1	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0511*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS Dup (4112141-BSD1)				Prepared & Analyzed: 21-Nov-24						
Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130	3.25	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	3.21	15.9	
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	85.9-128	3.45	16	
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89-129	3.45	16.2	
o-Xylene	2.00	0.050	mg/kg	2.00		99.9	86.1-125	3.35	16.7	
Total Xylenes	6.15	0.150	mg/kg	6.00		103	88.2-128	3.42	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0510*		mg/kg	*0.0500*		*102*	*71.5-134*			

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: TACOMA MORRISSEY Fax To:	Reported: 02-Dec-24 13:21

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4112137 - General Prep - Organics										
Blank (4112137-BLK1)				Prepared: 21-Nov-24 Analyzed: 22-Nov-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*46.2*		mg/kg	*50.0*		*92.3*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*44.2*		mg/kg	*50.0*		*88.4*	*49.1-148*			
LCS (4112137-BS1)				Prepared & Analyzed: 21-Nov-24						
GRO C6-C10	205	10.0	mg/kg	200		103	81.5-123			
DRO >C10-C28	185	10.0	mg/kg	200		92.3	77.7-122			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	80.9-121			
Surrogate: 1-Chlorooctane	*48.5*		mg/kg	*50.0*		*97.0*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*44.1*		mg/kg	*50.0*		*88.3*	*49.1-148*			
LCS Dup (4112137-BSD1)				Prepared & Analyzed: 21-Nov-24						
GRO C6-C10	191	10.0	mg/kg	200		95.7	81.5-123	6.85	13	
DRO >C10-C28	173	10.0	mg/kg	200		86.5	77.7-122	6.46	15.6	
Total TPH C6-C28	364	10.0	mg/kg	400		91.1	80.9-121	6.67	18.5	
Surrogate: 1-Chlorooctane	*48.0*		mg/kg	*50.0*		*96.1*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*44.4*		mg/kg	*50.0*		*88.8*	*49.1-148*			

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC
Project Manager:	Tacoma Morrissey
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	337-257-8307 Fax #:
Project #:	03C1558003 Project Owner: XTO
Project Name:	Remuda Basin 1
Project Location:	32.289105, -103.936172
Sampler Name:	Jesse Dorman

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H247117																		
1	DP01	5	G	1			✓					✓		11/20/24	1236	✓	✓	✓
2	DP01A	10	C	1			✓					✓			1236	✓	✓	✓
3	DP01B	15	C	1			✓					✓			1236	✓	✓	✓
4	DP01C	18	C	1			✓					✓			1225	✓	✓	✓
5	DP01D	20	C	1			✓					✓			1225	✓	✓	✓
6	DP02	5	C	1			✓					✓			1325	✓	✓	✓
7	DP02A	10	C	1			✓					✓			1325	✓	✓	✓
8	DP02B	15	C	1			✓					✓			1325	✓	✓	✓
9	DP02C	18	C	1			✓					✓			1315	✓	✓	✓
10	DP02D	20	C	1			✓					✓		✓	1315	✓	✓	✓

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Relinquished By:	Date: 11-21-24	Received By:	
	Time: 1330		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐Yes ☑No Add'l Phone #:

All Results are emailed. Please provide Email address: Thillard@ensolum.com
BBelillll@ensolum.com TMorrissey@ensolum.com, kthomason@ensolum.com

REMARKS:
Cost Center:1674481001 Incident ID: NAB1836137253

Delivered By: (Circle One)	Observed Temp. °C 2.9	Sample Condition: Cool ☑Yes ☐No Intact ☑Yes ☐No	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☑
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.3			Thermometer ID #140 (#113) Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐Yes ☐No Intact ☐Yes ☐No Observed Temp. °C Corrected Temp. °C

24hr TAT 11/21/24

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/11/2025 7:09:27 AM

Released to Imaging: 4/14/2026 8:09:55 AM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC
Project Manager:	Tacoma Morrissey
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	337-257-8307 Fax #:
Project #:	03C1558003 Project Owner: XTO
Project Name:	Remuda Basin 1
Project Location:	32.289105, -103.936172
Sampler Name:	Jesse Dorman

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	BTEX	TPH	CHLORIDE
H247117																		
11	DP03	6	G				✓					✓		11/20/24	1440	✓	✓	✓
12	DP03A	10					✓					✓			1440	✓	✓	✓
13	DP03B	16					✓					✓			1515	✓	✓	–

CARDINAL Laboratories

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November 25, 2024

TACOMA MORRISSEY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: REMUDA BASIN 1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/25/2024	Sampling Type:	Soil
Project Name:	REMUDA BASIN 1	Sampling Condition:	Cool & Intact
Project Number:	03C1558003	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.289105, -103.936172		

Sample ID: DP 03 C 18' (H247126-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	1.92	96.1	2.00	3.66	
Toluene*	<0.050	0.050	11/23/2024	ND	1.99	99.3	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	1.98	98.9	2.00	4.48	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	5.85	97.5	6.00	4.24	
Total BTEX	<0.300	0.300	11/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	11/22/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.5 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

ENSOLUM
TACOMA MORRISSEY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/25/2024	Sampling Type:	Soil
Project Name:	REMUDA BASIN 1	Sampling Condition:	Cool & Intact
Project Number:	03C1558003	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.289105, -103.936172		

Sample ID: DP 03 D 20' (H247126-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2024	ND	1.92	96.1	2.00	3.66	
Toluene*	<0.050	0.050	11/23/2024	ND	1.99	99.3	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/23/2024	ND	1.98	98.9	2.00	4.48	
Total Xylenes*	<0.150	0.150	11/23/2024	ND	5.85	97.5	6.00	4.24	
Total BTEX	<0.300	0.300	11/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KV

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	11/22/2024	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane *122 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 1227 of 1252

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name:	Ensolum, LLC
Project Manager:	Tacoma Morrissey
Address:	3122 National Parks Hwy
City:	Carlsbad State: NM Zip: 88220
Phone #:	337-257-8307 Fax #:
Project #:	03C1558003 Project Owner: XTO
Project Name:	Remuda Basin 1
Project Location:	32.289105, -103.936172
Sampler Name:	Jesse Dorman

BILL TO

P.O. #:	
Company:	XTO Energy Inc.
Attn:	Colton Brown
Address:	3104 E. Green St.
City:	Carlsbad
State:	NM Zip: 88220
Phone #:	
Fax #:	

ANALYSIS REQUEST

BTEX, TPH, CHLORIDE

Bus Modified 11/22/24 JD

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING: DATE	TIME
H247126 1	DP03C	18	G	1			✓					✓		11/20/24	1515
2	DP03D	20	↓	↓			✓					✓		↓	1515

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Relinquished By:	Date: 11-21-24	Received By:	
	Time: 1330		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐Yes ☐No Add'l Phone #:

All Results are emailed. Please provide Email address: Thillard@ensolum.com

BBelill@ensolum.com TMorrissey@ensolum.com kthomason@ensolum.com

REMARKS:

Cost Center 1674481001 Incident ID NAB1836137253

Delivered By: (Circle One)	Observed Temp. °C 2.9	Sample Condition: Cool Yes, Intact Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☑ 24HRS
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.3			Thermometer ID #142 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool Yes, Intact Yes — Observed Temp. °C

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 12/11/2025 7:09:27 AM

Released to Imaging: 4/14/2026 8:09:55 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 29, 2025

KATHERINE KHAN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: REMUDA BASIN 1

Enclosed are the results of analyses for samples received by the laboratory on 05/15/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 67 4'	H252940-01	Soil	13-May-25 14:25	15-May-25 14:00
BH 10 1'	H252940-02	Soil	13-May-25 13:15	15-May-25 14:00
BH 10 A 2'	H252940-03	Soil	13-May-25 13:19	15-May-25 14:00
BH 10 B 3'	H252940-04	Soil	13-May-25 13:22	15-May-25 14:00
BH 10 C 4'	H252940-05	Soil	13-May-25 13:26	15-May-25 14:00
BH 11 1'	H252940-06	Soil	13-May-25 09:25	15-May-25 14:00
BH 11 2'	H252940-07	Soil	13-May-25 09:30	15-May-25 14:00
BH 11 3'	H252940-08	Soil	13-May-25 11:50	15-May-25 14:00
BH 11 4'	H252940-09	Soil	13-May-25 12:05	15-May-25 14:00

05/29/25 - Client changed the sample IDs on -06 thru -09 (see COC). This is the revised report and will replace the one sent on 05/19/25.

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

FS 67 4'

H252940-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5051611	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*88.3 %*	*44.4-145*		*5051542*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.3 %*	*40.6-153*		*5051542*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 10 1'

H252940-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**304**		16.0	mg/kg	4	5051611	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*113 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*91.6 %*	*44.4-145*		*5051542*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.0 %*	*40.6-153*		*5051542*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 10 A 2'

H252940-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**224**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*82.8 %*	*44.4-145*		*5051542*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*78.9 %*	*40.6-153*		*5051542*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 10 B 3'

H252940-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051542	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*87.0 %*	*44.4-145*		*5051542*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.8 %*	*40.6-153*		*5051542*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 10 C 4'

H252940-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*118 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*97.5 %*	*44.4-145*		*5051543*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*101 %*	*40.6-153*		*5051543*	MS	*16-May-25*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 11 1'

H252940-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*118 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
DRO >C10-C28*	**76.7**		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*107 %*	*44.4-145*		*5051543*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*40.6-153*		*5051543*	MS	*16-May-25*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 11 2'

H252940-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
DRO >C10-C28*	**11.8**		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*97.6 %*	*44.4-145*		*5051543*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*40.6-153*		*5051543*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 11 3'

H252940-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051534	JH	16-May-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5051534	JH	16-May-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5051534	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*113 %*	*71.5-134*		*5051534*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
DRO >C10-C28*	**28.2**		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*116 %*	*44.4-145*		*5051543*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*40.6-153*		*5051543*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

BH 11 4'

H252940-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5051619	AC	16-May-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5051535	JH	16-May-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5051535	JH	16-May-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5051535	JH	16-May-25	8021B	GC-NC
Total Xylenes*	<0.150		0.150	mg/kg	50	5051535	JH	16-May-25	8021B	GC-NC
Total BTEX	<0.300		0.300	mg/kg	50	5051535	JH	16-May-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*5051535*	JH	*16-May-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
DRO >C10-C28*	**21.8**		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5051543	MS	16-May-25	8015B	
Surrogate: 1-Chlorooctane			*104 %*	*44.4-145*		*5051543*	MS	*16-May-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*40.6-153*		*5051543*	MS	*16-May-25*	*8015B*	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051611 - 1:4 DI Water										
Blank (5051611-BLK1)				Prepared & Analyzed: 16-May-25						
Chloride	ND	16.0	mg/kg							
LCS (5051611-BS1)				Prepared & Analyzed: 16-May-25						
Chloride	480	16.0	mg/kg	400		120	80-120			
LCS Dup (5051611-BSD1)				Prepared & Analyzed: 16-May-25						
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	
Batch 5051619 - 1:4 DI Water										
Blank (5051619-BLK1)				Prepared & Analyzed: 16-May-25						
Chloride	ND	16.0	mg/kg							
LCS (5051619-BS1)				Prepared & Analyzed: 16-May-25						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5051619-BSD1)				Prepared & Analyzed: 16-May-25						
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051534 - Volatiles										
Blank (5051534-BLK1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0574*		mg/kg	*0.0500*		*115*	*71.5-134*			
LCS (5051534-BS1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	1.99	0.050	mg/kg	2.00		99.6	82.8-130			
Toluene	2.12	0.050	mg/kg	2.00		106	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.41	0.100	mg/kg	4.00		110	89-129			
o-Xylene	2.15	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.56	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0512*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS Dup (5051534-BSD1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130	1.60	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	3.61	15.9	
Ethylbenzene	2.21	0.050	mg/kg	2.00		111	85.9-128	4.22	16	
m,p-Xylene	4.60	0.100	mg/kg	4.00		115	89-129	4.23	16.2	
o-Xylene	2.23	0.050	mg/kg	2.00		112	86.1-125	3.62	16.7	
Total Xylenes	6.83	0.150	mg/kg	6.00		114	88.2-128	4.03	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0525*		mg/kg	*0.0500*		*105*	*71.5-134*			
Batch 5051535 - Volatiles										
Blank (5051535-BLK1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051535 - Volatiles										
Blank (5051535-BLK1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0508*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS (5051535-BS1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	2.14	0.050	mg/kg	2.00		107	82.8-130			
Toluene	2.21	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.37	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0493*		mg/kg	*0.0500*		*98.6*	*71.5-134*			
LCS Dup (5051535-BSD1)				Prepared: 15-May-25 Analyzed: 16-May-25						
Benzene	2.18	0.050	mg/kg	2.00		109	82.8-130	1.84	15.8	
Toluene	2.25	0.050	mg/kg	2.00		112	86-128	1.72	15.9	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128	2.06	16	
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89-129	2.11	16.2	
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125	1.44	16.7	
Total Xylenes	6.49	0.150	mg/kg	6.00		108	88.2-128	1.89	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0493*		mg/kg	*0.0500*		*98.5*	*71.5-134*			

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051542 - General Prep - Organics										
Blank (5051542-BLK1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*49.9*		mg/kg	*50.0*		*99.9*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*49.0*		mg/kg	*50.0*		*98.0*	*40.6-153*			
LCS (5051542-BS1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	172	10.0	mg/kg	200		86.0	81.5-123			
DRO >C10-C28	180	10.0	mg/kg	200		90.1	77.7-122			
Total TPH C6-C28	352	10.0	mg/kg	400		88.0	80.9-121			
Surrogate: 1-Chlorooctane	*53.6*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*52.9*		mg/kg	*50.0*		*106*	*40.6-153*			
LCS Dup (5051542-BSD1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	174	10.0	mg/kg	200		87.0	81.5-123	1.18	13	
DRO >C10-C28	177	10.0	mg/kg	200		88.7	77.7-122	1.59	15.6	
Total TPH C6-C28	351	10.0	mg/kg	400		87.8	80.9-121	0.227	18.5	
Surrogate: 1-Chlorooctane	*53.4*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*53.4*		mg/kg	*50.0*		*107*	*40.6-153*			
Batch 5051543 - General Prep - Organics										
Blank (5051543-BLK1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*50.1*		mg/kg	*50.0*		*100*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*53.6*		mg/kg	*50.0*		*107*	*40.6-153*			

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: REMUDA BASIN 1 Project Number: 03C1558003 Project Manager: KATHERINE KHAN Fax To:	Reported: 29-May-25 16:22

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5051543 - General Prep - Organics										
LCS (5051543-BS1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	176	10.0	mg/kg	200		88.0	81.5-123			
DRO >C10-C28	170	10.0	mg/kg	200		84.9	77.7-122			
Total TPH C6-C28	346	10.0	mg/kg	400		86.4	80.9-121			
Surrogate: 1-Chlorooctane	*54.4*		mg/kg	*50.0*		*109*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*60.1*		mg/kg	*50.0*		*120*	*40.6-153*			
LCS Dup (5051543-BSD1)				Prepared: 15-May-25 Analyzed: 16-May-25						
GRO C6-C10	178	10.0	mg/kg	200		89.0	81.5-123	1.14	13	
DRO >C10-C28	172	10.0	mg/kg	200		85.9	77.7-122	1.19	15.6	
Total TPH C6-C28	350	10.0	mg/kg	400		87.4	80.9-121	1.16	18.5	
Surrogate: 1-Chlorooctane	*53.9*		mg/kg	*50.0*		*108*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*59.9*		mg/kg	*50.0*		*120*	*40.6-153*			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Katherine Khan	**P.O. #:**
Address: 601 N Marienfeld Street, Suite 400	**Company:** XTO Energy, Inc
City: Midland **State:** TX **Zip:** 79701	**Attn:** Colton Brown
Phone #: 303.319.9604 **Fax #:**	**Address:** 3104 E Greene St
Project #: 03C1558003 **Project Owner:** XTO Energy	**City:** Carlsbad
Project Name: Remuda Basin 1 - SPILLS	**State:** NM **Zip:** 88220
Project Location: 32.28866, -103.9357	**Phone #:**
Sampler Name: Uriel Santillana	**Fax #:**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH 8015	BTEX 8021	Chloride 4500
H25294																		
1	FS67	4'	C	1			X					X		5/13/25	1425	X	X	X
2	BH10	1'	G												1315			
3	BH10A	2'	G												1319			
4	BH10B	3'	G												1322			
5	BH10C ~~X~~	4'	G												1326			
6	BH~~12~~11	1	G												925			
7	BH~~12A~~11	2	G												930			
8	BH~~12B~~11	3	G												1150			
9	BH~~12C~~11	4	G												1205			

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Relinquished By:	**Date:** 5-15-25	**Received By:**	**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**
	Time: 1400		**All Results are emailed. Please provide Email address:** BBelill@ensolum.com, TMorrissey@ensolum.com, KK@resolutionconsultantsLLC.com, THillard@ensolum.com, KThomason@ensolum.com
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** Incident Number: NAB1836137253 Cost Center: 1674481001 GFCM: 48605000 # Customer request ID changes 5/28/25
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.6 Corrected Temp. °C 2.9	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	**CHECKED BY: (Initials)** TG	**Turnaround Time:** Standard ☐ Rush ☒ 48hr **Thermometer ID** #113 #140 **Correction Factor** -0.5°C +0.3 5/15/25

Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C**

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 12/11/2025 7:09:27 AM

Released to Imaging: 4/14/2026 8:09:55 AM

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

QUESTIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1836137253**
Incident Name	**NAB1836137253 REMUDA BASIN UNIT #001 @ 30-015-03691**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Approved**
Incident Well	**[30-015-03691] REMUDA BASIN UNIT #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	REMUDA BASIN UNIT #001
Date Release Discovered	12/14/2018
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Vandalism | Other (Specify) | Produced Water | Released: 305 BBL | Recovered: 0 BBL | Lost: 305 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/11/2025

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Zero feet, overlying, or within area
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	10400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	504
GRO+DRO	(EPA SW-846 Method 8015M)	504
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		12/01/2019
On what date will (or did) the final sampling or liner inspection occur		05/13/2025
On what date will (or was) the remediation complete(d)		12/14/2023
What is the estimated surface area (in square feet) that will be reclaimed		167000
What is the estimated volume (in cubic yards) that will be reclaimed		23395
What is the estimated surface area (in square feet) that will be remediated		167000
What is the estimated volume (in cubic yards) that will be remediated		23395
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/11/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**460049**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/13/2025**
What was the (estimated) number of samples that were to be gathered	**16**
What was the sampling surface area in square feet	**58000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 533879
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The variance approval for 800 ft2 confirmation samples is for floor samples only. Sidewall/edge samples will need to be conducted every 200 ft2 to define the edge of the release area. Please include pictures of the historical reserve pit excavation above the upper liner. Also, include photos of the 7 places that were exposed using a hydrovac that helps to ensure competency/integrity is still intact. A variance is approved for the spill area to be excavated to 4' and install a liner. Please ensure photographs of the entire remediated site prior to backfill are included in the remediation closure report.	4/14/2026