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 | NDHR1918660089 |
|----------------|----------------|
| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | pDHR1918659716 |

Release Notification

Responsible Party

| Contact Nam | Responsible Party XTO Energy | | | | OGRID 5380 | | | |
|---|------------------------------|---|--|---|---|--|--|--|
| Contact Name Kyle Littrell | | | | Contact To | Contact Telephone 432-221-7331 | | | |
| Contact email Kyle_Littrell@xtoenergy.com Inc | | | | Incident # | Incident # (assigned by OCD) NDHR1918660089 | | | |
| Contact mail | ing address | 522 W. Mermod, | Carlsbad, NM 88 | 220 | | | | |
| atitude32 | 2.255141° | | | of Release So Longitude imal degrees to 5 decin | -103.609785° | | | |
| Site Name M | Mis Amigos | Battery | 11.2 | Site Type | Bulk Storage and Separation Facility | | | |
| Date Release | | | | API# (if app | | | | |
| Unit Letter | Section | Township | Range | Cour | nty | | | |
| 0 | 31 | 23S | 33E | Lea | a | | | |
| | | | Nature and | Volume of | Release | | | |
| ☑ Crude Oil | Material I | (s) Released (Select all | that apply and attach of | calculations or specific | Release justification for the volumes provided below) Volume Recovered (bbls) 0 | | | |
| ☑ Crude Oil | l | | that apply and attach of (bbls) 0.05 bbl | calculations or specific | justification for the volumes provided below) | | | |
| | l | Volume Released Volume Released Is the concentration | that apply and attach of d (bbls) 0.05 bbl d (bbls) ion of total dissolv | calculations or specific | justification for the volumes provided below) Volume Recovered (bbls) 0 | | | |
| | Water | Volume Released Volume Released Is the concentration | that apply and attach of d (bbls) 0.05 bbl d (bbls) ion of total dissolv water >10,000 mg/ | calculations or specific | Volume Recovered (bbls) Volume Recovered (bbls) | | | |
| Produced | Water | Volume Released Volume Released Is the concentration the produced volume Released | that apply and attach of d (bbls) 0.05 bbl d (bbls) ion of total dissolv water >10,000 mg/d (bbls) | calculations or specific | volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) | | | |
| ☐ Produced☐ Condensa | Water ate | Volume Released Is the concentration the produced volume Released Volume Released | that apply and attach of d (bbls) 0.05 bbl d (bbls) ion of total dissolv water >10,000 mg/d (bbls) | calculations or specific /ed solids (TDS) /1? | Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) | | | |

State of New Mexico Oil Conservation Division

| Incident ID | NDHR1918660089 |
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| Was this a major | If YES, for what reason(s) does the respon | sible party consider this a major release? |
|--|--|--|
| release as defined by 19.15.29.7(A) NMAC? | An unauthorized release of a volume that re | soults in a fire an is the small of a fire |
| Yes No | 7 in unautionized release of a volume that h | issuits in a fire of is the result of a fire |
| If YES, was immediate n Notice provided by Amy | otice given to the OCD? By whom? To whe Ruth to EMNRD-OCD_District1spills and R | om? When and by what means (phone, email, etc)? yan Mann (SLO) on 6/19/2019 by email |
| | Initial Re | sponse |
| 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 rele | ease has been stopped. | |
| The impacted area ha | is been secured to protect human health and | he environment. |
| ▼ Released materials has | ave been contained via the use of berms or di | kes, absorbent pads, or other containment devices. |
| All free liquids and re | ecoverable materials have been removed and | managed appropriately. |
| N/A | | |
| has begun, please attach | a narrative of actions to date. If remedial e | mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation. |
| regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. | required to report and/or file certain release notifient. The acceptance of a C-141 report by the Orate and remediate contamination that pose a threat of a C-141 report does not relieve the operator of relieve the operator | est of my knowledge and understand that pursuant to OCD rules and leations and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have it to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws |
| Printed Name: Anty C. F | Ruth | Title: SH&E Coordinator |
| Signature. | ulla | Date: |
| email: Amy Ruth@xtoe | nergy_com | Telephone: 575-689-3380 |
| |) | |
| OCD Only | | |
| Received by: | | Date: |

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|----------|
| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | >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 ve contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | rtical extents of soil |
| 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 well 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 | lls. |
| | |

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 | |
|----------------|----------|
| District RP | 1RP-5607 |
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| Application ID | |

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|---|
| Printed Name:Kyle Littrell | Title:SH&E Supervisor |
| Signature: | Date:10/15/2019 |
| email:Kyle_Littrell@xtoenergy.com | Telephone:432-221-7331 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

State of New Mexico Oil Conservation Division

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

| Incident ID | |
|----------------|----------|
| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | |

Closure

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

| A scaled site | e and sampling diagram as described in 19.15.29.1 | 11 NMAC | |
|--|---|--|--|
| | s of the remediated site prior to backfill or photos 2 days prior to liner inspection) | of the liner integr | rity if applicable (Note: appropriate OCD District office |
| □ Laboratory a | analyses of final sampling (Note: appropriate ODG | C District office m | nust be notified 2 days prior to final sampling) |
| □ Description | of remediation activities | | |
| | | | |
| and regulations all may endanger pub should their opera numan health or the compliance with a restore, reclaim, a | I operators are required to report and/or file certain blic health or the environment. The acceptance of tions have failed to adequately investigate and report the environment. In addition, OCD acceptance of | n release notification of a C-141 report by mediate contamina a C-141 report do ations. The responditions that exist | nsible party acknowledges they must substantially sed prior to the release or their final land use in |
| | Kyle Littrell | | |
| Signature: | of a front | Date:10/15/ | 2019 |
| email:Ky | le Littrell@xtoenergy.com | Telephone: | 432-221-7331 |
| | | | |
| OCD Only | | | |
| Received by: | | Date: | |
| remediate contami | | water, human heal | I their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible |
| Closure Approved | 1 by: | Date: _ | |
| Printed Name: | | Title: | |
| | | | |





3300 North "A" Street Building 1, Unit 103 Midland, Texas 79705 432.704.5178

October 15, 2019

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

RE: Closure Request
Mis Amigos Battery

Remediation Permit Number 1RP-5607

Lea County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Mis Amigos Battery (Site) in Unit O, Section 31, Township 23 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to address impacts to soil following a release of crude oil at the Site. Based on the results of the soil sampling events, XTO is submitting this Closure Request requesting no further action for the release event.

RELEASE BACKGROUND

On June 18, 2019, a flare scrubber malfunctioned and caused 0.05 barrels (bbls) of crude oil to mist onto and ignite a mesquite bush. The fire was extinguished, and no injuries were reported. No fluid was recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on July 1, 2019, and was assigned Remediation Permit (RP) Number 1RP-5607 (Attachment 1).

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 New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is C 02279, located approximately 1.98 miles northeast of the Site. The water well has a depth to groundwater of approximately 400 feet and a total depth of approximately 650 feet. Ground surface elevation at the water well location is 3,684 feet above mean sea level (AMSL), which is approximately 27 feet higher in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a freshwater pond located approximately 1.34 miles 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 low potential karst area.

CLOSURE CRITERIA

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

Benzene: 10 milligrams per kilogram (mg/kg);

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;

Total petroleum hydrocarbons (TPH): 2,500 mg/kg;

Gasoline Range Organics + Diesel Range Organics: 1,000 mg/kg; and

Chloride: 20,000 mg/kg.

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On August 22, 2019, LTE personnel was at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected three preliminary soil samples (SS01 through SS03) within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped 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 following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Based on laboratory analytical results for the preliminary soil samples, excavation activities did not appear warranted; however, additional site assessment activities were scheduled. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.





On September 9 and September 10, 2019, LTE personnel returned to the Site to conduct soil assessment activities to further confirm the presence or absence of impacted soil. Subsequent potholes were advanced via track-mounted backhoe at the three preliminary soil sample locations within the release extent. Potholes PH01 through PH03 were advanced to depths of 4 feet bgs. Two delineation soil samples were collected from each pothole at depths of 1 foot or 2 feet, and 4 feet bgs. Soil from the three potholes was field screened utilizing a PID and Hach® chloride QuanTab® test strips. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Midland, Texas. The boreholes and delineation soil sample locations are depicted on Figure 3.

ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 through SS03 collected at a depth of approximately 0.5 feet bgs, and in delineation pothole soil samples PH01/PH01A through PH03/PH03A, collected at depths ranging from approximately 1 foot to 4 feet bgs. Laboratory analytical results are presented on Figure 2 and Figure 3, and are summarized in Table 1. The complete laboratory analytical reports are included as Attachment 4.

CONCLUSIONS

Preliminary soil samples SS01 through SS03 and delineation soil samples PH01/PH01A through PH03/PH03A were collected from within the release extent from depths ranging from 0.5 feet to 4 feet bgs to assess for the presence or absence of soil impacts as a result of the June 18, 2019, release. Laboratory analytical results for all soil samples indicated that benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil indicated volatile aromatic hydrocarbons and chloride concentrations were not elevated and soil staining and petroleum hydrocarbon odors were not identified within the release extent.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria, no impacted soil was identified, and no soil excavation was required as a result of the crude oil release. XTO requests no further action for RP Number 1RP-5607. An updated NMOCD Form C-141 is included as Attachment 1.

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

Sincerely,



Ashley L. Ager

Ashley L. Ager, P.G.

Senior Geologist



LT ENVIRONMENTAL, INC.

Carlanthalez

Carol Ann Whaley Staff Geologist

Kyle Littrell, XTO

Ryan Mann, State Land Office Robert Hamlet, NMOCD

Victoria Venegas, NMOCD

Attachments:

cc:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

Table 1 Soil Analytical Reports

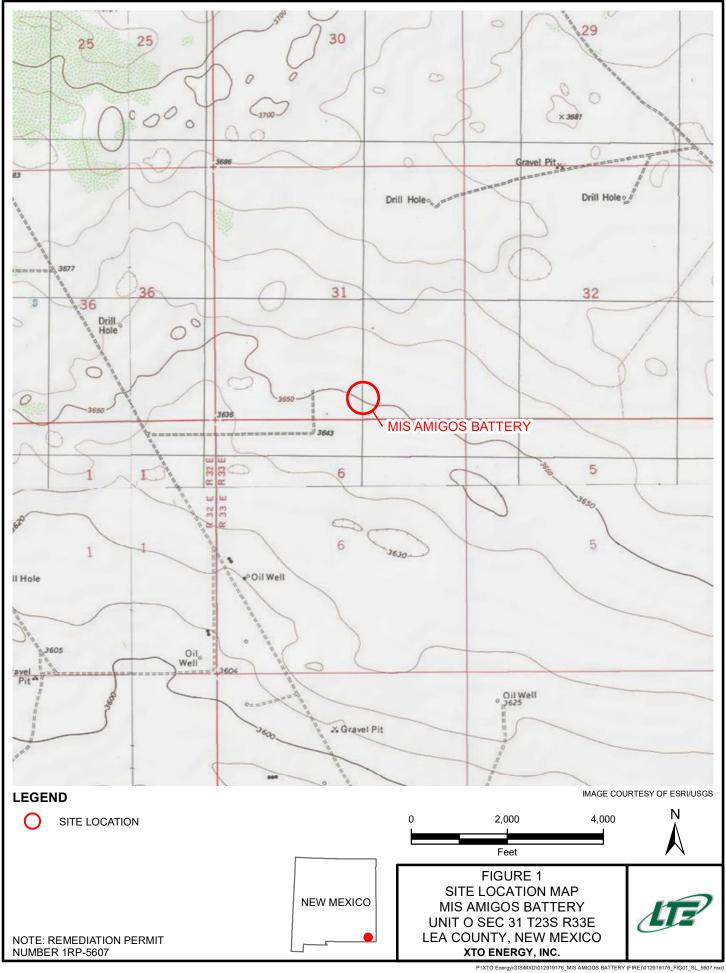
Attachment 1 Initial/Final NMOCD Form C-141 (1RP-5607)

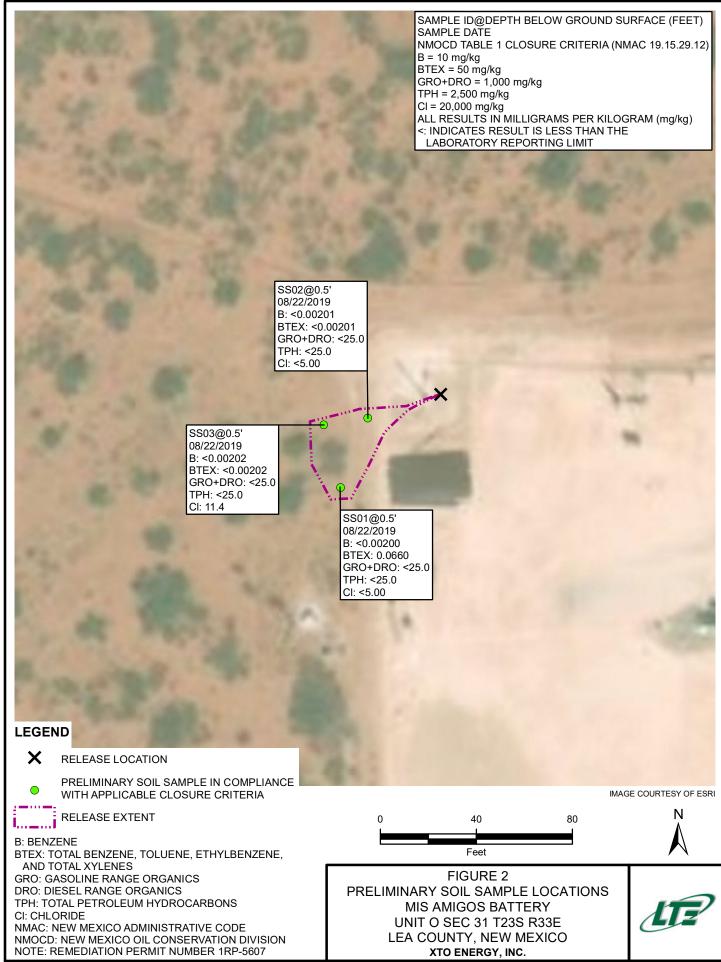
Attachment 2 Photographic Log

Attachment 3 Lithologic/Soil Sample Logs Attachment 4 Laboratory Analytical Reports









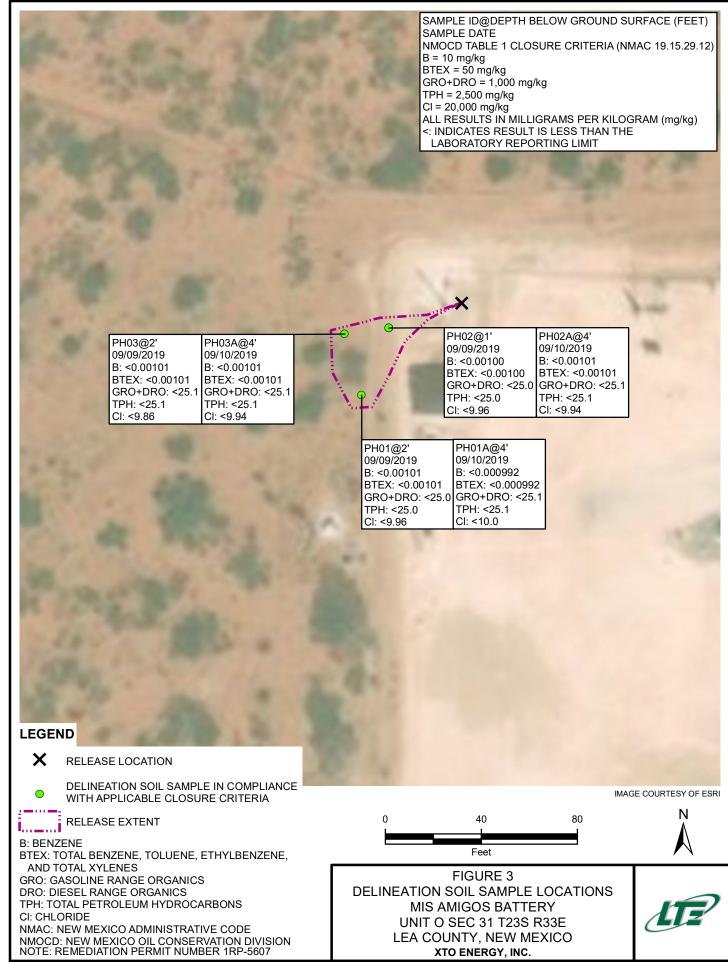




TABLE 1 SOIL ANALYTICAL RESULTS

MIS AMIGOS BATTERY REMEDIATION PERMIT NUMBER 1RP-5607 LEA 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) |
|----------------|-------------------------------|----------------|--------------------|--------------------|------------------------------|-----------------------------|--------------------------|----------------|----------------|----------------|-----------------------------|----------------|---------------------|
| SS01 | 0.5 | 08/22/2019 | <0.00200 | <0.00200 | 0.0496 | 0.0164 | 0.0660 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <5.00 |
| SS02 | 0.5 | 08/22/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <5.00 |
| SS03 | 0.5 | 08/22/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | 11.4 |
| PH01 | 2 | 09/09/2019 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <9.96 |
| PH01A | 4 | 09/10/2019 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <25.1 | <25.1 | <25.1 | <25.1 | <25.1 | <10.0 |
| PH02 | 1 | 09/09/2019 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <9.96 |
| PH02A | 4 | 09/10/2019 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <25.1 | <25.1 | <25.1 | <25.1 | <25.1 | <9.94 |
| PH03 | 2 | 09/09/2019 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <25.1 | <25.1 | <25.1 | <25.1 | <25.1 | <9.86 |
| PH03A | 4 | 09/10/2019 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <25.1 | <25.1 | <25.1 | <25.1 | <25.1 | <9.94 |
| NMOCD Table | 1 Closure Crit | eria | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

NE - not established



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 | NDHR1918660089 |
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| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | pDHR1918659716 |

Release Notification

Responsible Party

| Responsible | Party XTO | Energy | | OGRID 5380 | | | | |
|---|--------------|---|---|--|--|--|--|--|
| Contact Nan | ne Kyle Lit | trell | | Contact Telephone 432-221-7331 | | | | |
| Contact email Kyle_Littrell@xtoenergy.com | | | | | Incident # (assigned by OCD) NDHR1918660089 | | | |
| Contact mail | ling address | 522 W. Mermod, | Carlsbad, NM 8822 | | | | | |
| atitude32 | 2.255141° | | e e e e e e e e e e e e e e e e e e e | f Release So Longitude _ nal degrees to 5 decin | -103.609785° | | | |
| Site Name | Mis Amigos | Battery | | Site Type | Bulk Storage and Separation Facility | | | |
| Date Release | | | | API# (if app | | | | |
| Unit Letter | Section | Township | Range | Cour | nty | | | |
| 0 | 31 | 238 | 33E | Lea | a | | | |
| X Crude Oi | Material | (s) Released (Select al Volume Release | that apply and attach ca d (bbls) 0.05 bbl | llculations or specific | justification for the volumes provided below) Volume Recovered (bbls) 0 | | | |
| Produced | Water | Volume Release | J. J | | Volume Recovered (bbls) | | | |
| | | | ion of total dissolve water >10,000 mg/l | | Yes No | | | |
| Condensa | ate | Volume Release | _ | Volume Recovered (bbls) | | | | |
| Natural C | Gas | Volume Release | d (Mcf) | Volume Recovered (Mcf) | | | | |
| Other (de | escribe) | Volume/Weight | Released (provide u | units) Volume/Weight Recovered (provide units) | | | | |
| | eace | | | | | | | |
| Cause of Rel | lease | | | | | | | |

State of New Mexico Oil Conservation Division

| Incident ID | NDHR1918660089 |
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| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | pDHR1918659716 |

| 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. An unauthorized release of a volume that responsible. | 3 N % |
|---|--|---|
| If YES, was immediate n Notice provided by Amy | otice given to the OCD? By whom? To wh Ruth to EMNRD-OCD_District1spills and F | om? When and by what means (phone, email, etc)? tyan Mann (SLO) on 6/19/2019 by email |
| | Initial Re | esponse |
| The responsible | party must undertake the following actions immediately | unless they could create a safety hazard that would result in injury |
| ☐ The impacted area had ☐ Released materials had | ease has been stopped. as been secured to protect human health and ave been contained via the use of berms or decoverable materials have been removed and | ikes, absorbent pads, or other containment devices. |
| has begun, please attach | a narrative of actions to date. If remedial e | emediation immediately after discovery of a release. If remediation in the release occurred lease of the release occurred lease octave all information product for alcours are heating. |
| I hereby certify that the info regulations all operators are public health or the environs failed to adequately investig | rmation given above is true and complete to the required to report and/or file certain release notifient. The acceptance of a C-141 report by the Orate and remediate contamination that pose a threat of a C-141 report does not relieve the operator of Ruth | lease attach all information needed for closure evaluation. lest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws Title: SH&E Coordinator Date: 7/1/2019 Telephone: 575-689-3380 |
| | | |
| OCD Only | | |
| Received by: | | Date: |

State of New Mexico Oil Conservation Division

| Incident ID | |
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Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | >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 vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | rtical extents of soil |
| 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 well 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 | ls. |
| | |

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 | |
|----------------|----------|
| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | |

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
|---|---|
| Printed Name:Kyle Littrell | Title:SH&E Supervisor |
| Signature: | Date:10/15/2019 |
| email:Kyle_Littrell@xtoenergy.com | Telephone:432-221-7331 |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

State of New Mexico Oil Conservation Division

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

| Incident ID | |
|----------------|----------|
| District RP | 1RP-5607 |
| Facility ID | |
| Application ID | |

Closure

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

| A scaled site | e and sampling diagram as described in 19.15.29.1 | 11 NMAC | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) | | | | | | | | |
| □ Laboratory a | analyses of final sampling (Note: appropriate ODG | C District office m | nust be notified 2 days prior to final sampling) | | | | | |
| □ Description | □ Description of remediation activities | | | | | | | |
| | | | | | | | | |
| and regulations all may endanger pub should their opera numan health or the compliance with a restore, reclaim, a | I operators are required to report and/or file certain blic health or the environment. The acceptance of tions have failed to adequately investigate and report the environment. In addition, OCD acceptance of | n release notification of a C-141 report by mediate contamina a C-141 report do ations. The responditions that exist | nsible party acknowledges they must substantially sed prior to the release or their final land use in | | | | | |
| | Kyle Littrell | | | | | | | |
| Signature: | of a front | Date:10/15/ | 2019 | | | | | |
| email:Ky | le Littrell@xtoenergy.com | Telephone: | 432-221-7331 | | | | | |
| | | | | | | | | |
| OCD Only | | | | | | | | |
| Received by: | | Date: | | | | | | |
| remediate contami | | water, human heal | I their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible | | | | | |
| Closure Approved | 1 by: | Date: _ | | | | | | |
| Printed Name: | | Title: | | | | | | |
| | | | | | | | | |



Eastern view of release area during site assessment activities.

| Project: 012919176 | XTO Energy, Inc. Mis Amigos Battery | |
|--------------------|--|-----------------------|
| August 22, 2019 | Photographic Log | Advancing Opportunity |



Western view of release area during delineation soil sampling activities.

| Project: 012919176 | XTO Energy, Inc. Mis Amigos Battery | LIE |
|--------------------|--|-----------------------|
| September 10, 2019 | Photographic Log | Advancing Opportunity |



| LI trainon | LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation LITHOLOGIC / SOIL SAMPLING LOG | | | | | | Identifier: PHOI Project Name: Mis Amigo (Ar | | Method: | | |
|---------------------|---|--|---|--|-------------|----------------------------------|--|-------------------|--------------------|--------------|---|
| Lat/Long: | | | | | Field Scree | ning: | | | Hole Diameter: | | Total Depth: |
| Comment | s: | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) Samble # Soil/Rock Type Vapor (beht) Debth Debth | | | | | Soil/Rock Type | Lithology/Remarks | | | |
| Dry | 4179 | 4.6 | 7 | | 0] | | S | top | osoil,s un, low | P-51 - me | n, reddish d plasticity, rly graded |
| Dry | 11 | 12.3 | 7 | | 2 - | † - - - | S | | | | |
| Dty | 11 | 5.2 | Ν | | 4 | | S | | deenes | F.sam | nple@41 |
| * | | | | | 5 _ | † † † † † † | | | reepes | , 3411 | ipreta 47 |
| | | | | | 1701 8 | K | X | 1 | | | |
| | | | | | 9 . | † - - - - - | | | | | |
| | | | | | 11 | † | | | | | |
| | | | | | 12 | \dagger | | | | | |

| - | | | | 411 | | | | Total Control | | |
|---------------------|-------------------|----------------|----------|-----------|--------------------------------------|-----------------|-------------------|---------------|--------------------------------|------------------------------------|
| u com | | | Cá | ansbad, i | ironmenta st Stevens New Mexic | co 88220 | | | Identifier: PHO2 Project Name: | Date: 09/09 - 09/10/19 RP Number: |
| <u> `</u> | سن: | | | | Engineering | | | | Mis Amigos Bu | Hery |
| Lat/Long | 3: | LITHO | DLOGIC | C /SOI | L SAMPI Field Scree | | OG | | Logged By: Fatima Smith | Method: |
| Commer | | | | | l icia scicc | g. | | | Hole Diameter: | Total Depth: |
| | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (fl. bgs.) | Sample Depth | Soil/Rock Type | 700 10 10 | Lithology | /Remarks |
| Dry | 4179 | 1.9 | 2 | | 0 1 | | () | to | psoil, red | dish brwn, ed, low odor, |
| Dry | 1/ | 0.7 | 2 | | 2 | | S | SP | '-sm | o odor, |
| Dry | y | 15.3 | 2 | | 3 - | | (J | | | |
| | | | | | 5 6 7 7 8 9 10 11 12 | 7 | 2 | 2 | deepests | ample@41 |

| 17 Environmental, Inc. | | LT Enviro 508 West Carlsbad, No ompliance · En | | reet 88220 | Identifier: PHO3 Project Name: RP Number: Mis Amigos Bodiesy |
|--|----------------|---|----------------------------|-------------------|--|
| | | | 100 | | Mis Amigos Badlery |
| Lat/Long: | LITHOLOG | | SAMPLIN Field Screening | | Logged By: Fatima Smith Method: Hole Diameter: Total Depth: |
| Comments: | | | | | Hole Diameter: Total Depth: 닉 I |
| Moisture Content Chloride (ppm) | Vapor (ppm) | Sample # | ft. bgs.) De | Soil/Rock Type | Lithology/Remarks |
| Dry = 179 | 2.9 N | | 0 | S S | reddish brwn, topsoil, poorly graded, no odor, low plasticity, SP-SM |
| Dry " | 4.3 N | | 3 4 | 5 | cleepest sample @41 |
| | | 1 | 5 | | |



Analytical Report 634967

for LT Environmental, Inc.

Project Manager: Dan Moir
Mis Amigos Battery

1RP-5607

29-AUG-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), North Carolina (681)

> 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)



29-AUG-19

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

Reference: XENCO Report No(s): 634967

Mis Amigos Battery
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) 634967. 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. 634967 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 634967

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------|--------------|---------------|
| SS01 | S | 08-22-19 09:25 | .5 ft | 634967-001 |
| SS02 | S | 08-22-19 09:30 | .5 ft | 634967-002 |
| SS03 | S | 08-22-19 09:35 | .5 ft | 634967-003 |

XENCO

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Mis Amigos Battery

 Project ID:
 1RP-5607
 Report Date:
 29-AUG-19

 Work Order Number(s):
 634967
 Date Received:
 08/22/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3099998 BTEX by EPA 8021B

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



Certificate of Analysis Summary 634967

LT Environmental, Inc., Arvada, CO

Project Name: Mis Amigos Battery

Date Received in Lab: Thu Aug-22-19 04:39 pm

Report Date: 29-AUG-19 **Project Manager:** Jessica Kramer

Project Id: 1RP-5607
Contact: Dan Moir

Project Location:

| | I ah Id. | <i>Lab Id:</i> 634967-00 | | 634967- | 002 | 634967-0 | 002 | | |
|------------------------------------|------------|--------------------------|---------|-----------------|---------|-----------------|---------|----------|--|
| | Field Id: | SS01 | | SS02 | | SS03 | 103 | | |
| Analysis Requested | | | | | | | | | |
| | Depth: | .5- ft | | .5- ft | | .5- ft | | | |
| | Matrix: | SOIL | | SOIL | , | SOIL | | | |
| | Sampled: | Aug-22-19 09:25 | | Aug-22-19 09:30 | | Aug-22-19 09:35 | | | |
| BTEX by EPA 8021B | Extracted: | Aug-26-19 | 16:00 | Aug-26-19 16:00 | | Aug-26-19 | 16:00 | | |
| SUB: T104704400-18-16 | Analyzed: | Aug-29-19 | 05:29 | Aug-29-19 | 05:49 | Aug-29-19 | 06:09 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Benzene | | < 0.00200 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Toluene | | < 0.00200 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Ethylbenzene | | 0.0496 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| m,p-Xylenes | | < 0.00400 | 0.00400 | < 0.00402 | 0.00402 | < 0.00403 | 0.00403 | | |
| o-Xylene | | 0.0164 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Total Xylenes | | 0.0164 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Total BTEX | | 0.0660 | 0.00200 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | | |
| Chloride by EPA 300 | Extracted: | Aug-26-19 10:40 | | Aug-26-19 10:40 | | Aug-26-19 10:40 | | | |
| SUB: T104704400-18-16 | Analyzed: | Aug-26-19 11:53 | | Aug-26-19 12:17 | | Aug-26-19 12:24 | | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Chloride | | < 5.00 | 5.00 | < 5.00 | 5.00 | 11.4 | 5.00 | | |
| TPH by SW8015 Mod | Extracted: | Aug-26-19 08:00 | | Aug-26-19 08:00 | | Aug-26-19 08:00 | 08:00 | | |
| SUB: T104704400-18-16 | Analyzed: | Aug-26-19 | 12:04 | Aug-26-19 | 13:02 | Aug-26-19 | 13:22 | | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | | |
| Gasoline Range Hydrocarbons (GRO) | | <25.0 | 25.0 | <25.0 | 25.0 | <25.0 | 25.0 | | |
| Diesel Range Organics (DRO) | <25.0 | 25.0 | <25.0 | 25.0 | <25.0 | 25.0 | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <25.0 | 25.0 | <25.0 | 25.0 | <25.0 | 25.0 | | |
| Total TPH | | <25.0 | 25.0 | <25.0 | 25.0 | <25.0 | 25.0 | | |
| Total GRO-DRO | | <25.0 | 25.0 | <25.0 | 25.0 | <25.0 | 25.0 | <u> </u> | |

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



CHE

Certificate of Analytical Results 634967

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS01 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-001 Date Collected: 08.22.19 09.25 Sample Depth: .5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: CHE Date Prep: 08.26.19 10.40 Basis: Wet Weight

Seq Number: 3099705 SUB: T104704400-18-16

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 08.26.19 11.53 U < 5.00 5.00 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Tech:

Analyst: ARM Date Prep: 08.26.19 08.00 Basis: Wet Weight

Seq Number: 3099768 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.0 | 25.0 | | mg/kg | 08.26.19 12.04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.0 | 25.0 | | mg/kg | 08.26.19 12.04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.0 | 25.0 | | mg/kg | 08.26.19 12.04 | U | 1 |
| Total TPH | PHC635 | <25.0 | 25.0 | | mg/kg | 08.26.19 12.04 | U | 1 |
| Total GRO-DRO | PHC628 | <25.0 | 25.0 | | mg/kg | 08.26.19 12.04 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 98 | % | 70-135 | 08.26.19 12.04 | | |
| o-Terphenyl | | 84-15-1 | 101 | % | 70-135 | 08.26.19 12.04 | | |



Certificate of Analytical Results 634967

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS01 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-001 Date Collected: 08.22.19 09.25 Sample Depth: .5 ft

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

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 08.26.19 16.00 Basis: Wet Weight

Seq Number: 3099998 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|----------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00200 | 0.00200 | | mg/kg | 08.29.19 05.29 | U | 1 |
| Toluene | 108-88-3 | < 0.00200 | 0.00200 | | mg/kg | 08.29.19 05.29 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.0496 | 0.00200 | | mg/kg | 08.29.19 05.29 | | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00400 | 0.00400 | | mg/kg | 08.29.19 05.29 | U | 1 |
| o-Xylene | 95-47-6 | 0.0164 | 0.00200 | | mg/kg | 08.29.19 05.29 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0164 | 0.00200 | | mg/kg | 08.29.19 05.29 | | 1 |
| Total BTEX | | 0.0660 | 0.00200 | | mg/kg | 08.29.19 05.29 | | 1 |
| | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 122 | % | 70-130 | 08.29.19 05.29 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 75 | % | 70-130 | 08.29.19 05.29 | | |



Tech:

Certificate of Analytical Results 634967

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS02 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-002 Date Collected: 08.22.19 09.30 Sample Depth: .5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

CHE % Moisture:

Analyst: CHE Date Prep: 08.26.19 10.40 Basis: Wet Weight

Seq Number: 3099705 SUB: T104704400-18-16

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 08.26.19 12.17 U < 5.00 5.00 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.26.19 08.00 Basis: Wet Weight

Seq Number: 3099768 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.0 | 25.0 | | mg/kg | 08.26.19 13.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.02 | U | 1 |
| Total TPH | PHC635 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.02 | U | 1 |
| Total GRO-DRO | PHC628 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.02 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 101 | % | 70-135 | 08.26.19 13.02 | | |
| o-Terphenyl | | 84-15-1 | 102 | % | 70-135 | 08.26.19 13.02 | | |



Tech:

Certificate of Analytical Results 634967

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS02 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-002 Date Collected: 08.22.19 09.30 Sample Depth: .5 ft

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

KTL % Moisture:

Analyst: KTL Date Prep: 08.26.19 16.00 Basis: Wet Weight

Seq Number: 3099998 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|----------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| Toluene | 108-88-3 | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00402 | 0.00402 | | mg/kg | 08.29.19 05.49 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| Total BTEX | | < 0.00201 | 0.00201 | | mg/kg | 08.29.19 05.49 | U | 1 |
| | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 129 | % | 70-130 | 08.29.19 05.49 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 98 | % | 70-130 | 08.29.19 05.49 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS03 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-003 Date Collected: 08.22.19 09.35 Sample Depth: .5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.26.19 10.40 Basis: Wet Weight

Seq Number: 3099705 SUB: T104704400-18-16

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 11.4
 5.00
 mg/kg
 08.26.19 12.24
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 08.26.19 08.00 Basis: Wet Weight

Seq Number: 3099768 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.0 | 25.0 | | mg/kg | 08.26.19 13.22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.22 | U | 1 |
| Total TPH | PHC635 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.22 | U | 1 |
| Total GRO-DRO | PHC628 | <25.0 | 25.0 | | mg/kg | 08.26.19 13.22 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 102 | % | 70-135 | 08.26.19 13.22 | | |
| o-Terphenyl | | 84-15-1 | 105 | % | 70-135 | 08.26.19 13.22 | | |

% Moisture:



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery

Sample Id: SS03 Matrix: Soil Date Received:08.22.19 16.39

Lab Sample Id: 634967-003 Date Collected: 08.22.19 09.35 Sample Depth: .5 ft

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

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 08.26.19 16.00 Basis: Wet Weight

Seq Number: 3099998 SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|----------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| Toluene | 108-88-3 | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00403 | 0.00403 | | mg/kg | 08.29.19 06.09 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| Total BTEX | | < 0.00202 | 0.00202 | | mg/kg | 08.29.19 06.09 | U | 1 |
| | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 117 | % | 70-130 | 08.29.19 06.09 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 99 | % | 70-130 | 08.29.19 06.09 | | |



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.

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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 634967

LT Environmental, Inc.

Mis Amigos Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3099705 Matrix: Solid

LCS Sample Id: MB Sample Id: 7684957-1-BLK

Date Prep: 08.26.19 7684957-1-BKS LCSD Sample Id: 7684957-1-BSD

E300P

E300P

SW8015P

mg/kg

Prep Method:

20

6

Flag

Prep Method:

LCS MR Spike LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis **Parameter** Result Amount Result %Rec Date %Rec Result

08.26.19 11:02 Chloride < 5.00 250 245 98 244 98 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3099705 Matrix: Soil Date Prep: 08.26.19

Parent Sample Id: 634804-007 MS Sample Id: 634804-007 S MSD Sample Id: 634804-007 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec

Chloride 56.4 250 296 96 296 96 90-110 0 20 mg/kg 08.26.19 11:21

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3099705 Matrix: Soil 08.26.19 Date Prep:

MS Sample Id: 634970-003 S MSD Sample Id: 634970-003 SD Parent Sample Id: 634970-003

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec

08.26.19 12:55 Chloride 27.1 248 272 99 271 98 90-110 0 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Diesel Range Organics (DRO)

Seq Number: 3099768 Matrix: Solid Date Prep: 08.26.19 MB Sample Id: LCS Sample Id: 7684950-1-BKS LCSD Sample Id: 7684950-1-BSD 7684950-1-BLK

936

1000

<25.0

%RPD RPD Limit Units MB Spike LCS LCS LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 08.26.19 11:25 Gasoline Range Hydrocarbons (GRO) 894 89 943 70-135 5 20 <15.0 1000 94 mg/kg 08.26.19 11:25

992

MB MB LCS LCSD LCS LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 77 118 124 70-135 % 08.26.19 11:25 08.26.19 11:25 o-Terphenyl 76 118 121 70-135 %

94

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result

70-135

99

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



QC Summary 634967

LT Environmental, Inc.

Mis Amigos Battery

Analytical Method: TPH by SW8015 Mod

015 Mod Prep Method:

Matrix: Soil Date Prep:

 Seq Number:
 3099768
 Matrix:
 Soil
 Date Prep:
 08.26.19

 Parent Sample Id:
 634967-001
 MS Sample Id:
 634967-001 S
 MSD Sample Id:
 634967-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
|-----------------------------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|---------|-----------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | <15.0 | 997 | 952 | 95 | 955 | 96 | 70-135 | 0 | 20 | mg/kg | 08.26.19 12:24 | |
| Diesel Range Organics (DRO) | <24.9 | 997 | 884 | 89 | 890 | 89 | 70-135 | 1 | 20 | mg/kg | 08.26.19 12:24 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1-Chlorooctane | 128 | | 128 | | 70-135 | % | 08.26.19 12:24 |
| o-Terphenyl | 125 | | 106 | | 70-135 | % | 08.26.19 12:24 |

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

 Seq Number:
 3099998
 Matrix:
 Solid
 Date Prep:
 08.26.19

 MB Sample Id:
 7685031-1-BLK
 LCS Sample Id:
 7685031-1-BKS
 LCSD Sample Id:
 7685031-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Lim | it Units | Analysis Date |
|--------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|---------|----------|------------------|
| Benzene | < 0.00200 | 0.100 | 0.0971 | 97 | 0.102 | 102 | 70-130 | 5 | 35 | mg/kg | 08.27.19 09:23 |
| Toluene | < 0.000456 | 0.100 | 0.0975 | 98 | 0.102 | 102 | 70-130 | 5 | 35 | mg/kg | 08.27.19 09:23 |
| Ethylbenzene | < 0.000565 | 0.100 | 0.102 | 102 | 0.108 | 108 | 70-130 | 6 | 35 | mg/kg | 08.27.19 09:23 |
| m,p-Xylenes | < 0.00101 | 0.200 | 0.197 | 99 | 0.206 | 103 | 70-130 | 4 | 35 | mg/kg | 08.27.19 09:23 |
| o-Xylene | < 0.000344 | 0.100 | 0.102 | 102 | 0.107 | 107 | 70-130 | 5 | 35 | mg/kg | 08.27.19 09:23 |
| | | | | | | | | | | | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-------------|-------------|--------------|--------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 97 | | 98 | | 98 | | 70-130 | % | 08.27.19 09:23 |
| 4-Bromofluorobenzene | 95 | | 105 | | 104 | | 70-130 | % | 08.27.19 09:23 |

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

 Seq Number:
 3099998
 Matrix:
 Soil
 Date Prep:
 08.26.19

 Parent Sample Id:
 634978-001
 MS Sample Id:
 634978-001 S
 MSD Sample Id:
 634978-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lim | nit Units | Analysis Date | Flag |
|--------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|---------|-----------|------------------|------|
| Benzene | < 0.00200 | 0.0998 | 0.0735 | 74 | 0.0792 | 80 | 70-130 | 7 | 35 | mg/kg | 08.27.19 10:03 | |
| Toluene | < 0.00200 | 0.0998 | 0.0690 | 69 | 0.0747 | 75 | 70-130 | 8 | 35 | mg/kg | 08.27.19 10:03 | X |
| Ethylbenzene | < 0.00200 | 0.0998 | 0.0661 | 66 | 0.0760 | 76 | 70-130 | 14 | 35 | mg/kg | 08.27.19 10:03 | X |
| m,p-Xylenes | < 0.00101 | 0.200 | 0.120 | 60 | 0.124 | 62 | 70-130 | 3 | 35 | mg/kg | 08.27.19 10:03 | X |
| o-Xylene | < 0.000344 | 0.0998 | 0.0651 | 65 | 0.0764 | 77 | 70-130 | 16 | 35 | mg/kg | 08.27.19 10:03 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 103 | | 104 | | 70-130 | % | 08.27.19 10:03 |
| 4-Bromofluorobenzene | 108 | | 107 | | 70-130 | % | 08.27.19 10:03 |

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(C\text{-A}) \, / \, B \\ RPD &= 200* \mid (C\text{-E}) \, / \, (C\text{+E}) \mid \\ [D] &= 100*(C) \, / \, [B] \end{split}$$

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 AddedD = MSD/LCSD % Rec

SW8015P

Flag



Phone:

432.704.5178 2-5

Address:

Project Name:

MM1905

ttery

Turn Around

Email: ggreen@ltenv.com;

dmoir@ltenv.com

ANALYSIS REQUEST

Deliverables: EDD

ADaPT

Other:

uperfund

Chain of Custody

work Order No: 12349127

City, State ZIP: Company Name: Project Manager: Midland, TX 79705 3300 North A Street LT Environmental, Inc., Dan Moir , Permian office Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) 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 Bill to: (if different) City, State ZIP: Company Name: Midland, Tx 79705 XTO Kyle Littrell Reporting:Level II evel III ST/UST Program: UST/PST □PRP □Brownfields □RC State of Project: www.xenco.com Page **Work Order Comments** RRP Bvel IV

| otice: Signature of this docume f service. Xenco will be liable o | Circle Method(s) and Metal(s) to be analyzed | Total 200 7 / 6040 | | | | | | | | | Sample Identification | | Sample Custody Seals: | Cooler Custody Seals: | Received Intact: | Temperature (°C): | SAMPLE RECEIPT | Sampler's Name: Gar | P.O. Number: | Project Number: |
|---|--|--------------------|--|--|---|--|---|------------|--------|------------------|-----------------------|------------------------------|------------------------------------|-----------------------|------------------|-------------------|---------------------------------|---------------------|--------------|-----------------|
| nt and relinquishment of same | d Metal(s) to be ar | 200 8 / 6020. | | | | | | 5 5035 | 5 2055 | 5 1055 | ition Matrix | | Yes to NIA | Yes NA NA | Wes No | 322 | Temp Blank: | Garrett Green | P-5607 | NF-5607 |
| otice: 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 ferrors. | nalyzed TCLP / SPLP 6010: 8RCRA Sb As | | | | | | | V 0935 V | 0430 | 8/24/19 0925 151 | Sampled | | Total Containers: | Cor | T-NN007 | Thermometer ID | ik: (Ves) No (Washbee: Fight No | Due Date: | Rush: | Routine 1 |
| n client con | 1 Al S CRA Sb | | | | - | | | _ | _ | - | Numb | | - | | ıtair | iers | | | | |
| pany to X | Sb As Ba | | | | 1 | | - | 4 | | X | TPH (E | | | | 21) | | | | | |
| enco, its af | Be Cd | Ш | | | | | | 1 | - | メ | Chlori | de | (EP | A 30 | 0.0) | | | | | |
| filiates and subcontractors | Cd Ca Cr Co Cu Cr Co Cu Pb Mr | - | | | | | | | | | | | | | | | | | | |
| . It assigns standard ter | Cu Fe Pb Mg Mn Mo Ni Mn Mo Ni Se Ag Tl U | | | | | | | | | | | | | | | | | | | |
| ms and conditions | Mo Ni K Se Ag S | - | | | | | | \ <u>\</u> | 1 | 1 | | | | | | | | | | |
| | 3iO2 Na 163 | | | | | | | | | | 1 | | | | | | | | | |
| | K Se Ag SiO2 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg | | | | | | | | | | Sample Comments | iab, ii received by 4.50biii | TAT starts the day received by the | | | | | | | |

Revised Date 051418 Rev. 2018.1

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 f 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)

08/22/19 @ 16:26

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

00

1010.3

Date/Time

Work Order Notes



Inter-Office Shipment

Page 1 of 1

IOS Number 46834

Date/Time: 08/23/19 12:28

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: Midland

Air Bill No.: 776067465701

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|---------------------|----------|----------|-----|----------------------|------|
| 634967-001 | S | SS01 | 08/22/19 09:25 | SW8021B | BTEX by EPA 8021B | 08/28/19 | 09/05/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 634967-001 | S | SS01 | 08/22/19 09:25 | SW8015MOD_NM | TPH by SW8015 Mod | 08/28/19 | 09/05/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 634967-001 | S | SS01 | 08/22/19 09:25 | E300_CL | Chloride by EPA 300 | 08/28/19 | 02/18/20 | JKR | CL | |
| 634967-002 | S | SS02 | 08/22/19 09:30 | SW8015MOD_NM | TPH by SW8015 Mod | 08/28/19 | 09/05/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 634967-002 | S | SS02 | 08/22/19 09:30 | SW8021B | BTEX by EPA 8021B | 08/28/19 | 09/05/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 634967-002 | S | SS02 | 08/22/19 09:30 | E300_CL | Chloride by EPA 300 | 08/28/19 | 02/18/20 | JKR | CL | |
| 634967-003 | S | SS03 | 08/22/19 09:35 | SW8015MOD_NM | TPH by SW8015 Mod | 08/28/19 | 09/05/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 634967-003 | S | SS03 | 08/22/19 09:35 | SW8021B | BTEX by EPA 8021B | 08/28/19 | 09/05/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 634967-003 | S | SS03 | 08/22/19 09:35 | E300_CL | Chloride by EPA 300 | 08/28/19 | 02/18/20 | JKR | CL | |

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: <u>08/23/2019</u>

Received By:

Brianna Teel

Date Received: <u>08/26/2019 07:35</u>

Cooler Temperature: 0.7



Checklist reviewed by:

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland Acceptable Temperature Range: 0 - 6 degC IOS #: 46834

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used: R8

Date: 08/26/2019

| Sent By: | Elizabeth McClellan | Date Sent: | 08/23/2019 12:28 PM | | |
|---------------|--------------------------------|--------------------|---------------------------|---------------|----------|
| Received By | : Brianna Teel | Date Received | : 08/26/2019 07:35 AM | | |
| | | Sample Re | ceipt Checklist | | Comments |
| #1 *Tempe | rature of cooler(s)? | | | .7 | |
| #2 *Shippin | g container in good condition | on? | | Yes | |
| #3 *Sample | es received with appropriate | Yes | | | |
| #4 *Custod | y Seals intact on shipping c | ontainer/ cooler? | | Yes | |
| #5 *Custod | y Seals Signed and dated for | or Containers/cool | ers | Yes | |
| #6 *IOS pre | esent? | | | Yes | |
| #7 Any mis | sing/extra samples? | | | No | |
| #8 IOS agre | ees with sample label(s)/ma | trix? | | Yes | |
| #9 Sample | matrix/ properties agree wit | h IOS? | | Yes | |
| #10 Sample | es in proper container/ bottle | ? | | Yes | |
| #11 Sample | es properly preserved? | | | Yes | |
| #12 Sample | e container(s) intact? | | | Yes | |
| #13 Sufficie | ent sample amount for indicate | ated test(s)? | | Yes | |
| #14 All sam | ples received within hold til | me? | | Yes | |
| * Must be co | mpleted for after-hours d | elivery of sample | es prior to placing in th | e refrigerato | r |
| NonConform | ance: | | | | |
| Corrective Ac | ction Taken: | | | | |
| | | Nonconfo | rmance Documentation | ı | |
| Contact: | | Contacted by : | | | Date: |
| | | | | | |
| | | | | | |
| | | | | | |



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Date/ Time Received: 08/22/2019 04:39:00 PM

Work Order #: 634967

Client: LT Environmental, Inc.

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 conta | iner/ cooler? | No | |
| #5 Custody Seals intact on sample bottles? | | No | |
| #6*Custody Seals Signed and dated? | ľ | N/A | |
| #7 *Chain of Custody present? | Y | Yes | |
| #8 Any missing/extra samples? | I | No | |
| #9 Chain of Custody signed when relinquish | ned/ received? | Yes | |
| #10 Chain of Custody agrees with sample la | abels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | Y | Yes | |
| #12 Samples in proper container/ bottle? | Y | Yes | |
| #13 Samples properly preserved? | Y | 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)? | Y | Yes | Subbed to Xenco Midland. |
| #18 Water VOC samples have zero headsp | pace? | N/A | |

| ' Must be c | ompleted for after-hours de | livery of samples prior to placi | ng in the refrigerator | |
|-------------|-----------------------------|----------------------------------|------------------------|---|
| Analyst: | | PH Device/Lot#: | | |
| | Checklist completed by: | Elizabeth McClellan | Date: 08/23/2019 | _ |
| | Checklist reviewed by: | Jessica Vramer | Date: 08/27/2019 | |

Jessica Kramer

Analytical Report 636555

for LT Environmental, Inc.

Project Manager: Dan Moir Mis Amigos Battery (fire) 012919176 16-SEP-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), North Carolina (681)

> 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-Tampa: Florida (E87429), North Carolina (483)



16-SEP-19

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

Reference: XENCO Report No(s): 636555

Mis Amigos Battery (fire)

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) 636555. 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. 636555 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 636555

LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|-----------------------|--------------|---------------|
| PH01 | S | 09-09-19 15:00 | 2 ft | 636555-001 |
| PH01A | S | 09-10-19 09:51 | 4 ft | 636555-002 |
| PH02 | S | 09-09-19 15:14 | 1 ft | 636555-003 |
| PH02A | S | 09-10-19 09:34 | 4 ft | 636555-004 |
| PH03 | S | 09-09-19 15:27 | 2 ft | 636555-005 |
| PH03A | S | 09-10-19 09:43 | 4 ft | 636555-006 |

XENCO

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Mis Amigos Battery (fire)

 Project ID:
 012919176
 Report Date:
 16-SEP-19

 Work Order Number(s):
 636555
 Date Received:
 09/11/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3101396 BTEX by EPA 8021B

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



Certificate of Analysis Summary 636555

LT Environmental, Inc., Arvada, CO

Project Name: Mis Amigos Battery (fire)

Date Received in Lab: Wed Sep-11-19 10:55 am

Report Date: 16-SEP-19 **Project Manager:** Jessica Kramer

Project Id: 012919176 Contact: Dan Moir

Project Location:

| | | | | -0 | 202 | -0 | 202 | | 20.4 | | 00.5 | -0.777 | 00.5 |
|------------------------------------|------------|-----------|--------------------|--------------------|----------|-----------|---------|-----------|---------|-----------------|---------|-----------------|---------|
| | Lab Id: | 636555-0 | 001 | 636555-0 | | 636555-0 | | 636555- | | 636555- | | 636555- | |
| Analysis Requested | Field Id: | PH01 | | PH01A | | PH02 | | PH02. | 4 | PH03 | | PH03A | |
| 11matysts Requesica | Depth: | 2- ft | | 4- ft | | 1- ft | | 4- ft | | 2- ft | | 4- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | Sampled: | Sep-09-19 | p-09-19 15:00 Sep- | | 09:51 | Sep-09-19 | 15:14 | Sep-10-19 | 09:34 | Sep-09-19 15:27 | | Sep-10-19 | 09:43 |
| BTEX by EPA 8021B | Extracted: | Sep-11-19 | ep-11-19 17:00 Se | | 17:00 | Sep-11-19 | 17:00 | Sep-11-19 | 17:00 | Sep-11-19 | 17:00 | Sep-11-19 | 17:00 |
| | Analyzed: | Sep-11-19 | 23:00 | Sep-12-19 | 00:18 | Sep-12-19 | 00:38 | Sep-12-19 | 00:58 | Sep-12-19 | 01:18 | Sep-12-19 | 01:37 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | · | < 0.00101 | 0.00101 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| Toluene | | < 0.00101 | 0.00101 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| Ethylbenzene | | < 0.00101 | 0.00101 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| m,p-Xylenes | | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | < 0.00201 | 0.00201 | < 0.00202 | 0.00202 | < 0.00202 | 0.00202 | < 0.00202 | 0.00202 |
| o-Xylene | | < 0.00101 | 0.00101 | < 0.000992 | | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| Total Xylenes | | < 0.00101 | 0.00101 | < 0.000992 | | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| Total BTEX | | < 0.00101 | 0.00101 | <0.000992 0.000992 | | < 0.00100 | 0.00100 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 | < 0.00101 | 0.00101 |
| Chloride by EPA 300 | Extracted: | Sep-11-19 | 12:50 | Sep-11-19 12:50 | | Sep-11-19 | 12:50 | Sep-11-19 | 12:50 | Sep-11-19 | 12:50 | Sep-11-19 12:50 | |
| | Analyzed: | Sep-11-19 | 16:45 | Sep-11-19 | 16:52 | Sep-11-19 | 16:58 | Sep-11-19 | 17:05 | Sep-11-19 | 17:11 | Sep-11-19 | 17:17 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | <9.96 | 9.96 | <10.0 | 10.0 | <9.96 | 9.96 | <9.94 | 9.94 | <9.86 | 9.86 | <9.94 | 9.94 |
| TPH by SW8015 Mod | Extracted: | Sep-11-19 | 16:30 | Sep-11-19 | 16:30 | Sep-11-19 | 16:30 | Sep-11-19 | 16:30 | Sep-11-19 | 16:30 | Sep-11-19 | 16:30 |
| | Analyzed: | Sep-12-19 | 00:40 | Sep-12-19 | 01:01 | Sep-12-19 | 01:21 | Sep-12-19 | 01:42 | Sep-12-19 | 02:02 | Sep-12-19 | 02:22 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <25.0 | 25.0 | <25.1 | 25.1 | <25.0 | 25.0 | <25.1 | 25.1 | <25.1 | 25.1 | <25.1 | 25.1 |
| Diesel Range Organics (DRO) | | <25.0 | 25.0 | <25.1 | 25.1 | <25.0 | 25.0 | <25.1 | 25.1 | <25.1 | 25.1 | <25.1 | 25.1 |
| Motor Oil Range Hydrocarbons (MRO) | | <25.0 | 25.0 | <25.1 | 25.1 | <25.0 | 25.0 | <25.1 | 25.1 | <25.1 | 25.1 | <25.1 | 25.1 |
| Total GRO-DRO | | <25.0 | 25.0 | <25.1 | 25.1 | <25.0 | 25.0 | <25.1 | 25.1 | <25.1 | 25.1 | <25.1 | 25.1 |
| Total TPH | | <25.0 | 25.0 | <25.1 | 25.1 | <25.0 | 25.0 | <25.1 | 25.1 | <25.1 | 25.1 | <25.1 | 25.1 |

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 Vramer



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Date Received:09.11.19 10.55 Sample Id: **PH01** Matrix: Soil

Lab Sample Id: 636555-001 Date Collected: 09.09.19 15.00 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Tech: MAB Analyst: MAB Basis: Wet Weight Date Prep: 09.11.19 12.50

Seq Number: 3101247

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 09.11.19 16.45 < 9.96 9.96 mg/kg 1

Prep Method: SW8015P Analytical Method: TPH by SW8015 Mod

DTH % Moisture: Tech:

DTH Analyst: 09.11.19 16.30 Basis: Wet Weight Date Prep:

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.0 | 25.0 | | mg/kg | 09.12.19 00.40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.0 | 25.0 | | mg/kg | 09.12.19 00.40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.0 | 25.0 | | mg/kg | 09.12.19 00.40 | U | 1 |
| Total GRO-DRO | PHC628 | <25.0 | 25.0 | | mg/kg | 09.12.19 00.40 | U | 1 |
| Total TPH | PHC635 | <25.0 | 25.0 | | mg/kg | 09.12.19 00.40 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 89 | % | 70-135 | 09.12.19 00.40 | | |
| o-Terphenyl | | 84-15-1 | 74 | % | 70-135 | 09.12.19 00.40 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH01 Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-001 Date Collected: 09.09.19 15.00 Sample Depth: 2 ft

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

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| Toluene | 108-88-3 | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00201 | 0.00201 | | mg/kg | 09.11.19 23.00 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| Total BTEX | | < 0.00101 | 0.00101 | | mg/kg | 09.11.19 23.00 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 110 | % | 70-130 | 09.11.19 23.00 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 120 | % | 70-130 | 09.11.19 23.00 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH01A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-002 Date Collected: 09.10.19 09.51 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.11.19 12.50 Basis: Wet Weight

Seq Number: 3101247

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U <10.0 10.0 09.11.19 16.52 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 16.30 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.1 | 25.1 | | mg/kg | 09.12.19 01.01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.01 | U | 1 |
| Total GRO-DRO | PHC628 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.01 | U | 1 |
| Total TPH | PHC635 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.01 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 83 | % | 70-135 | 09.12.19 01.01 | | |
| o-Terphenyl | | 84-15-1 | 77 | % | 70-135 | 09.12.19 01.01 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH01A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-002 Date Collected: 09.10.19 09.51 Sample Depth: 4 ft

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

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| Toluene | 108-88-3 | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 09.12.19 00.18 | U | 1 |
| o-Xylene | 95-47-6 | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| Total BTEX | | < 0.000992 | 0.000992 | | mg/kg | 09.12.19 00.18 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 100 | % | 70-130 | 09.12.19 00.18 | | |
| 1.4-Difluorobenzene | | 540-36-3 | 100 | % | 70-130 | 09.12.19 00.18 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH02 Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-003 Date Collected: 09.09.19 15.14 Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MAB Date Prep: 09.11.19 12.50 Basis: Wet Weight

Seq Number: 3101247

MAB

Tech:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 09.11.19 16.58 < 9.96 9.96 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 09.11.19 16.30 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.0 | 25.0 | | mg/kg | 09.12.19 01.21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.0 | 25.0 | | mg/kg | 09.12.19 01.21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.0 | 25.0 | | mg/kg | 09.12.19 01.21 | U | 1 |
| Total GRO-DRO | PHC628 | <25.0 | 25.0 | | mg/kg | 09.12.19 01.21 | U | 1 |
| Total TPH | PHC635 | <25.0 | 25.0 | | mg/kg | 09.12.19 01.21 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 81 | % | 70-135 | 09.12.19 01.21 | | |
| o-Terphenyl | | 84-15-1 | 74 | % | 70-135 | 09.12.19 01.21 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH02 Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-003 Date Collected: 09.09.19 15.14 Sample Depth: 1 ft

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

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| Toluene | 108-88-3 | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00201 | 0.00201 | | mg/kg | 09.12.19 00.38 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| Total BTEX | | < 0.00100 | 0.00100 | | mg/kg | 09.12.19 00.38 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 107 | % | 70-130 | 09.12.19 00.38 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 100 | % | 70-130 | 09.12.19 00.38 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH02A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-004 Date Collected: 09.10.19 09.34 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.11.19 12.50 Basis: Wet Weight

Seq Number: 3101247

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 09.11.19 17.05 < 9.94 9.94 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 16.30 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.1 | 25.1 | | mg/kg | 09.12.19 01.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.42 | U | 1 |
| Total GRO-DRO | PHC628 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.42 | U | 1 |
| Total TPH | PHC635 | <25.1 | 25.1 | | mg/kg | 09.12.19 01.42 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 81 | % | 70-135 | 09.12.19 01.42 | | |
| o-Terphenyl | | 84-15-1 | 70 | % | 70-135 | 09.12.19 01.42 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH02A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-004 Date Collected: 09.10.19 09.34 Sample Depth: 4 ft

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

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| Toluene | 108-88-3 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00202 | 0.00202 | | mg/kg | 09.12.19 00.58 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| Total BTEX | | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 00.58 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 105 | % | 70-130 | 09.12.19 00.58 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 102 | % | 70-130 | 09.12.19 00.58 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH03 Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-005 Date Collected: 09.09.19 15.27 Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 09.11.19 12.50 Basis: Wet Weight

Seq Number: 3101247

MAB

Tech:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 09.11.19 17.11 < 9.86 9.86 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 16.30 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.1 | 25.1 | | mg/kg | 09.12.19 02.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.02 | U | 1 |
| Total GRO-DRO | PHC628 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.02 | U | 1 |
| Total TPH | PHC635 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.02 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 98 | % | 70-135 | 09.12.19 02.02 | | |
| o-Terphenyl | | 84-15-1 | 81 | % | 70-135 | 09.12.19 02.02 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH03 Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-005 Date Collected: 09.09.19 15.27 Sample Depth: 2 ft

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

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| Toluene | 108-88-3 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00202 | 0.00202 | | mg/kg | 09.12.19 01.18 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| Total BTEX | | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.18 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 09.12.19 01.18 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 102 | % | 70-130 | 09.12.19 01.18 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH03A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-006 Date Collected: 09.10.19 09.43 Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.11.19 12.50 Basis: Wet Weight

Seq Number: 3101247

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 09.11.19 17.17 < 9.94 9.94 mg/kg 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 16.30 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|---------------|-------|--------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <25.1 | 25.1 | | mg/kg | 09.12.19 02.22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.22 | U | 1 |
| Total GRO-DRO | PHC628 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.22 | U | 1 |
| Total TPH | PHC635 | <25.1 | 25.1 | | mg/kg | 09.12.19 02.22 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 86 | % | 70-135 | 09.12.19 02.22 | | |
| o-Terphenyl | | 84-15-1 | 73 | % | 70-135 | 09.12.19 02.22 | | |



LT Environmental, Inc., Arvada, CO

Mis Amigos Battery (fire)

Sample Id: PH03A Matrix: Soil Date Received:09.11.19 10.55

Lab Sample Id: 636555-006 Date Collected: 09.10.19 09.43 Sample Depth: 4 ft

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

DTH % Moisture:

Analyst: DTH Date Prep: 09.11.19 17.00 Basis: Wet Weight

Seq Number: 3101396

Tech:

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------------|------|-----|
| Benzene | 71-43-2 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| Toluene | 108-88-3 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00202 | 0.00202 | | mg/kg | 09.12.19 01.37 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| Total BTEX | | < 0.00101 | 0.00101 | | mg/kg | 09.12.19 01.37 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 98 | % | 70-130 | 09.12.19 01.37 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 95 | % | 70-130 | 09.12.19 01.37 | | |



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.

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

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 636555

LT Environmental, Inc.

Mis Amigos Battery (fire)

Analytical Method: Chloride by EPA 300

Seq Number:

3101247 Matrix: Solid

LCS Sample Id: 7685933-1-BKS LCSD Sample Id: 7685933-1-BSD MB Sample Id: 7685933-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

09.11.19 09:33 Chloride <10.0 250 256 102 255 102 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3101247 Matrix: Soil Date Prep: 09.11.19

Parent Sample Id: 636504-001 MS Sample Id: 636504-001 S MSD Sample Id: 636504-001 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec

Chloride 19000 3990 22200 80 22200 80 90-110 0 20 mg/kg 09.11.19 13:07

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3101247 Matrix: Solid 09.11.19 Date Prep:

MS Sample Id: 636508-003 S MSD Sample Id: 636508-003 SD Parent Sample Id: 636508-003

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec

09.11.19 15:01 Chloride 11.6 200 219 104 236 90-110 7 20 X 112 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: Seq Number: 3101292 Matrix: Solid Date Prep: 09.11.19

MB Sample Id: LCS Sample Id: 7686107-1-BKS LCSD Sample Id: 7686107-1-BSD 7686107-1-BLK

LCS %RPD RPD Limit Units MB Spike LCS LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec 09.11.19 21:56 Gasoline Range Hydrocarbons (GRO) 907 91 912 91 70-135 < 9.88 1000 35 1 mg/kg 09.11.19 21:56 85 870 70-135 3 35 Diesel Range Organics (DRO) 1000 845 87 < 9.88 mg/kg

LCS LCS LCSD MB MB LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date

1-Chlorooctane 126 128 127 70-135 % 09.11.19 21:56 09.11.19 21:56 o-Terphenyl 124 117 122 70-135 %

E300P

E300P

X

09.11.19

Prep Method:

Date Prep:



QC Summary 636555

LT Environmental, Inc.

Mis Amigos Battery (fire)

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Seq Number: 3101292 Matrix: Soil Date Prep: 09.11.19 MS Sample Id: 636556-009 S MSD Sample Id: 636556-009 SD 636556-009 Parent Sample Id:

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lim | it Units | Analysis Date | Flag |
|-----------------------------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|---------|----------|------------------|------|
| Gasoline Range Hydrocarbons (GRO) | < 9.92 | 1000 | 937 | 94 | 899 | 90 | 70-135 | 4 | 35 | mg/kg | 09.11.19 22:58 | |
| Diesel Range Organics (DRO) | < 9.92 | 1000 | 885 | 89 | 841 | 85 | 70-135 | 5 | 35 | mg/kg | 09.11.19 22:58 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1-Chlorooctane | 130 | | 129 | | 70-135 | % | 09.11.19 22:58 |
| o-Terphenyl | 123 | | 114 | | 70-135 | % | 09.11.19 22:58 |

Analytical Method: BTEX by EPA 8021B

SW5030B Prep Method: Seq Number: 3101396 Matrix: Solid Date Prep: 09.11.19 LCS Sample Id: 7686181-1-BKS LCSD Sample Id: 7686181-1-BSD 7686181-1-BLK MB Sample Id:

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date |
|--------------|--------------|-----------------|---------------|-------------|----------------|--------------|--------|------|-----------|-------|------------------|
| Benzene | < 0.00100 | 0.100 | 0.0881 | 88 | 0.0877 | 88 | 70-130 | 0 | 35 | mg/kg | 09.11.19 22:00 |
| Toluene | < 0.00100 | 0.100 | 0.0977 | 98 | 0.0905 | 91 | 70-130 | 8 | 35 | mg/kg | 09.11.19 22:00 |
| Ethylbenzene | < 0.00100 | 0.100 | 0.115 | 115 | 0.112 | 112 | 71-129 | 3 | 35 | mg/kg | 09.11.19 22:00 |
| m,p-Xylenes | < 0.00200 | 0.200 | 0.235 | 118 | 0.228 | 114 | 70-135 | 3 | 35 | mg/kg | 09.11.19 22:00 |
| o-Xylene | < 0.00100 | 0.100 | 0.117 | 117 | 0.115 | 115 | 71-133 | 2 | 35 | mg/kg | 09.11.19 22:00 |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-------------|-------------|--------------|--------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 100 | | 101 | | 101 | | 70-130 | % | 09.11.19 22:00 |
| 4-Bromofluorobenzene | 94 | | 121 | | 117 | | 70-130 | % | 09.11.19 22:00 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3101396 Matrix: Soil Date Prep: 09.11.19 MS Sample Id: 636555-001 S MSD Sample Id: 636555-001 SD Parent Sample Id: 636555-001

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date |
|--------------|------------------|-----------------|--------------|------------|---------------|-------------|--------|------|-----------|-------|------------------|
| Benzene | < 0.00101 | 0.101 | 0.0865 | 86 | 0.0866 | 86 | 70-130 | 0 | 35 | mg/kg | 09.11.19 23:19 |
| Toluene | < 0.00101 | 0.101 | 0.0858 | 85 | 0.0841 | 83 | 70-130 | 2 | 35 | mg/kg | 09.11.19 23:19 |
| Ethylbenzene | < 0.00101 | 0.101 | 0.104 | 103 | 0.101 | 100 | 71-129 | 3 | 35 | mg/kg | 09.11.19 23:19 |
| m,p-Xylenes | < 0.00202 | 0.202 | 0.215 | 106 | 0.208 | 103 | 70-135 | 3 | 35 | mg/kg | 09.11.19 23:19 |
| o-Xylene | < 0.00101 | 0.101 | 0.110 | 109 | 0.106 | 105 | 71-133 | 4 | 35 | mg/kg | 09.11.19 23:19 |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|------------|------------|-------------|-------------|--------|-------|------------------|
| 1,4-Difluorobenzene | 109 | | 114 | | 70-130 | % | 09.11.19 23:19 |
| 4-Bromofluorobenzene | 125 | | 126 | | 70-130 | % | 09.11.19 23:19 |

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

[D] = 100*(C-A) / BRPD = 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 Flag

Flag

Prep Method:

SW5030B

Chain of Custody

Work Order No: (13(655)

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

| | | 0 | | | | | 5 |
|---|--|---|--|--|---|--|---|
| | 9 | 4 | | | , | | 3 / |
| Alulo 10:55 | Contract | 2 Y | 07:01 bla/1 | 01/10 | | M | · fatel |
| Date/Time | Received by: (Signature) | Relinquished by: (Signature) | Date/Time | 10 | Received by: (Signature | (Signature) | Relinquished by: |
| | ously negotiated. | 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 it such losses are use to common 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. | itted to Xenco, but not an | r each sample subm | s and shall not assume any responder that a charge of \$5 for | ble only for the cost of sample e of \$75.00 will be applied to e | of service. Xenco will be lia of Xenco. A minimum char |
| | terms and conditions | 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 | t company to Xenco, its a | nase order from clien | samples constitutes a valid purci | ument and relinquishment of | Notice: Signature of this do |
| Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg | Mo Ni K Se Ag SiO2 | 3 Cd Ca Cr Co Cu Fe Pb Mg Mn Mo d Cr Co Cu Pb Mn Mo Ni Se Ag Tl L | Sb As Ba Be B Cd Sb As Ba Be Cd Cr | RCRA 13PPM Texas 11 Al | ω | otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | Total 200.7 / 6010 Circle Method(s) a |
| | | | | | | | |
| | | | | | 1 | 700 | |
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| | | | X X | 다 [,] | | AS | рноз |
| | | | X X | 2' 1 | 09/09/19 1527 | S | PH03 |
| | | | X X | 4. 1 | 19 | 0 | PHO2 |
| | | | X X | 1 ,1 | 19 | ^ | PHO2 |
| | | | × × × | | 09/10/19 0951 | | PHOLA |
| | | | X | 1/2 | 09/09/19 1500 | S | PHOI |
| Sample Comments | so. | | TPH (BTEX Chlor | Depth | Date Time Sampled Sampled | ication Matrix | Sample Identification |
| lab, if received by 4:30pm | lat | | (EF | 6 er of | Total Containers: | | Sample Custody Seals: |
| TAT starts the day recevied by the | TAT st | | A (| 0,2 | Correction Factor: | Yes (No) N/A | Cooler Custody Seals: |
| | | |)=8 | ntai | TNM007 | (Yes) No | Received Intact: |
| | | | 021) | ners | Thermometer ID | 160 | Temperature (°C): |
| | | | | (Yes) No | (Yes) No Wet Ice: (| Temp Blank: | SAMPLE RECEIPT |
| | | | | te: | ith Due Date: | Fatima Smith | Sampler's Name: |
| | | | | | Rush: | IRP-5607 | P.O. Number: |
| | | | | Q | Ro | 29191 | Project Number: |
| Work Order Notes | | ANALYSIS REQUEST | | Turn Around | Battery (fire) Turn | nis Amigos B | Project Name: |
| Other: | Deliverables: EDD ADaPT | | n, dmoir@ltenv.com | Email: fsmith@ltenv.com, | Email: fs | (432) 236-3849 | |
| TRRP Level IV | Reporting:Level II Level II PST/UST TRRPL Level IV | | Carlsbad, NM 88220 | City, State ZIP: | C | Midland, TX 79705 | City, State ZIP: |
|] | State of Project: | | 3104 E Greene St | Address: | A | 3300 North A Street | Address: |
| RRC □Superfund □ | Program: UST/PST □PRP □Brownfields | Progran | XTO Energy | Company Name: | | LT Environmental, Inc., Permian Office | Company Name: L |
| nts | Work Order Comments | | Kyle Littrell | Bill to: (if different) | Ві | Dan Moir | Project Manager: [|
| gelofl | www.xenco.com Page | Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 75-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) | Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (816)585, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) | X (432-704-5440) 550) Phoenix,AZ (4 | Midland, T Hobbs, NM (575-392-7) | LABORATORIES | LAE |
| | | | | | | | |



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

Date/ Time Received: 09/11/2019 10:55:00 AM

Work Order #: 636555

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 contai | ner/ cooler? | No | |
| #5 Custody Seals intact on sample bottles? | | No | |
| #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 relinquish | ned/ received? | Yes | |
| #10 Chain of Custody agrees with sample la | abels/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 headsp | ace? | 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: <u>09/11/2019</u> | | |
| Checklist reviewed by: | Jessica Kramer | Date: <u>09/12/2019</u> | | |