LT Environmental, Inc.

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

Advancing Opportunity

October 28, 2019

Mr. Bradford Billings New Mexico Oil Conservation Division 1220 South St. Francis Drive, #3 Santa Fe, New Mexico 87505

RE: Closure Request Severus 31 Federal Com 3H Remediation Permit Numbers 1RP-5108 Lea County, New Mexico

Dear Mr. Billings:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request report detailing site assessment and soil sampling activities at the Severus 31 Federal Com 3H (Site), located in Unit N, Section 30, Township 20 South, Range 34 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a release of crude oil and produced water at the Site.

The release is included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the New Mexico Oil Conservation Division (NMOCD) effective November 13, 2018. The purpose of the Compliance Agreement is to ensure reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018. The release is categorized as a Tier IV site in the Compliance Agreement, meaning the release occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing. Based on the laboratory analytical results for soil samples collected at the Site, XTO is submitting this Closure Request, describing site assessment activities that have occurred and requesting no further action for the release event.

RELEASE BACKGROUND

On June 14, 2018, a trucking contractor was at the Site to pull fluid down from the gas buster. The driver mistakenly set the pump to pressure up the trailer instead of pull a vacuum. The trailer pressured up, and when the valve was opened pressure was sent into the gas buster causing fluid to exit out the top. Approximately 10.22 barrels (bbls) of oil and less than 0.5 barrels of produced water were released. The release impacted the lined temporary frac tank containment and a small area of well pad south of the containment. A vacuum recovered approximately 9.8 bbls of free-standing fluid from the containment. XTO reported the release to the NMOCD on a Release





Billings, B. Page 2

Notification and Corrective Action Form C-141 (Form C-141) on June 22, 2018, and was assigned Remediation Permit (RP) Number 1RP-5108 (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 United States Geological Survey (USGS) well 323335103370601, located approximately 9,604 feet north of the Site. The water well has a depth to groundwater of 174 feet and a total depth of 676 feet. Ground surface elevation at the water well location is 3,644 feet above mean sea level (AMSL), which is approximately 51 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an OSE water body located approximately 6,862 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is 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;
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg;
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg; and
- Chloride: 20,000 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On July 4, 2018, LTE personnel inspected the Site to evaluate the release and document the release location. The frac tanks and lined containment remained on-site.

On July 11, 2019, LTE personnel collected six preliminary soil samples (SS01 through SS06) within the release area to assess for potential soil impacts. The frac tanks and lined containment were removed, and no visible signs of the release were identified. The soil sample locations, depicted on Figure 2, were selected based on information provided on the initial Form C-141 and the





Billings, B. Page 3

documented release location. To eliminate the effects from weathering and natural degradation of contaminants at the ground surface, the soil samples were collected from each sample location from a depth of 0.5 feet bgs.

On October 11, 2019, LTE personnel returned to the Site to collect vertical delineation soil samples via hand auger to confirm the absence of impacted soil in the release area. Soil samples SS01A through SS06A were collected from a depth of 2 feet bgs at the SS01 through SS06 preliminary soil sample locations. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each sample location were logged on lithologic/soil sampling logs, which are included in Attachment 2. The soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visits. Photographs are included in Attachment 3.

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

ANALYTICAL RESULTS

Laboratory analytical results indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in soil samples SS01/SS01A through SS06/SS06A. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and soil sampling activities were conducted to assess for potential soil impacts resulting from the June 14, 2018, crude oil and produced water release at the Site. Laboratory analytical results for soil samples SS01/SS01A through SS06/SS06A, collected from depths ranging from 0.5 feet to 2 feet bgs, indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

The majority of the released fluids were contained within the lined containment and recovered during initial response activities. Based on visual observations, field screening, and laboratory analytical results, no impacted soil was identified as a result of the release. XTO requests no





Billings, B. Page 4

further action for RP Number 1RP-5108. 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,

LT ENVIRONMENTAL, INC.

Amée Cale

Aimee Cole Project Environmental Scientist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO NMOCD District 1 Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Initial/Final NMOCD Form C-141 (1RP-5108)
- Attachment 2 Lithologic/Soil Sample Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports



FIGURES





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TABLE 1 SOIL ANALYTICAL RESULTS

SEVERUS 31 FEDERAL COM 3H REMEDIATION PERMIT NUMBER 1RP-5108 LEA COUNTY, NEW MEXICO XTO ENERGY, INC.

| 30:51 PA | 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 | 07/11/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 164 |
| | SS01A | 2 | 10/17/2019 | <0.000994 | <0.000994 | <0.000994 | <0.000994 | <0.000994 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 56.4 |
| | SS02 | 0.5 | 07/11/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 7.98 |
| | SS02A | 2 | 10/17/2019 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 50.5 |
| | SS03 | 0.5 | 07/11/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 23.7 |
| | SS03A | 2 | 10/17/2019 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 29.9 |
| | SS04 | 0.5 | 07/11/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 48.1 |
| | SS04A | 2 | 10/17/2019 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <9.92 |
| | SS05 | 0.5 | 07/11/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 77.3 |
| | SS05A | 2 | 10/17/2019 | <0.000998 | <0.000998 | <0.000998 | <0.000998 | <0.000998 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 11.3 |
| | SS06 | 0.5 | 07/11/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | <4.95 |
| | SS06A | 2 | 10/17/2019 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <0.00101 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 350 |
| | NMOCD | Table 1 Closur | e Criteria | 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

mg/kg - milligrams per kilogram

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established TPH - total petroleum hydrocarbons Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

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



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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

Oil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised April 3, 2017

Page 11 of 74

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 5. 51. 114 | iels Dr., San | a re, ivivi 8750 | | Sa | anta F | e, NM 875 | 505 | | | | | |
|--|---|--|--|--|---|---|--|--|--|---|--|---|
| | | | Rel | ease Notific | catio | n and Co | orrective | e Actio | n | | | |
| | | | | | | OPERA | TOR | | 🛛 Initi | al Report | | Final Rep |
| Name of Co | ompany: | XTO Energy | / | | | Contact: Kyle Littrell | | | | | | |
| Address: 3 | 104 E. Gre | eene St., Car | Isbad, N. | M. 88220 | | Telephone No: 432-221-7331 | | | | | | |
| Facility Na | ine. Seve | rus 51 reder | al Com 3 | п | | Facility Typ | be: Explora | ition and | Production | | | |
| Surface Owner: Federal Mineral Owne | | | | Owner: | Federal | | | API No | p: 30-025- | 43417 | | |
| LOCATION OF RELEASE | | | | | | | | | | | | |
| Unit Letter N | Section 30 | Township 20S | Range 34E | Feet from the 250 | North | 1/South Line | Feet from t | he East Wes | /West Line | County Eddy | | |
| | | | Latitude | 32.537538° | Lo | ongitude | -103.602584 | 4° NA | AD83 | | | |
| | | | | NAT | | OF REL | FASE | | | | | |
| Type of Rele | ase | Crude Oil ar | nd Produce | ed Water | | Volume of | Release 10 |).22 BO | Volume | Recovered | 9.8 BC |) |
| Source of Re | lease | Gas Bueta | | | | Data and L | < | 1/2 BPW | Data and | Hour of Die | <1/2 E | BPW |
| Source of Re | lease | Gas Dusie | 1 | | | 6/14/2018 | 9 am | rence | 6/14/201 | Hour of Dis 8 9 am | covery | |
| Was Immedi | ate Notice (| Given? | | | | If YES, To | Whom? | | 1 | | | |
| | | | Yes L | No 🛛 Not R | equired | N/A | | | | | | |
| By Whom? | N/A | 1 10 | | | | Date and H | Hour: N/A | | | | | |
| was a water | course Reac | ched? | Vec 🛛 | 1 No | | IF YES, VO | olume Impact | ing the Wa | itercourse. | | | |
| (A. 11) | | | 103 23 | 110 | | INA | | | | | | |
| N/A | iise was mi | pacted, Descr | ibe Fully. | | | | RECEIN | /FN | | | | |
| oulling a vac causing fluid Describe Are The release a | a Affected a ffected the l | and Cleanup A | p his hose flow back Action Tak | s, the trailer had p hand instructed t ten.* k containment an | the drive | d up. When the to close the | pad caliche s | south of the | e containmer | was sent int | o the g | as buster |
| hereby certi regulations al public health should their c or the environ rederal, state, | fy that the in l operators or the envir perations h ument. In a or local law | nformation gi are required to onment. The ave failed to a ddition, NMO vs and/or regu | ven above 5 report an acceptanc dequately CD accep vations. | is true and comp id/or file certain r e of a C-141 repo investigate and r tance of a C-141 | elete to t release n ort by th emediat report d | he best of my notifications ar e NMOCD m te contaminati loes not reliev | knowledge a nd perform co arked as "Fin on that pose a e the operato | nd underst prrective ac al Report" a threat to a r of respon | and that purs ctions for rel does not rel ground wate sibility for c | suant to NM eases which ieve the oper r, surface wa ompliance w | OCD re may er rator of tter, hu vith any | ules and ndanger Tlability man health other |
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| Signature: | 11 ma | y Cl | reil | \square | | | | | 0 | 1 | | |
| rinted Name | : Amy (| Ruth | | 0 | | Approved by | Environment | al Speciali | st: | <u>y</u> | | |
| itle: Fr | Vironmenta | L Coordinator | | | | Approval Dat | 6/29/2 | 018 | Expiration | Data | | |
| -mail Addee | | | | | | Conditions | о. Алилия-1- | | expiration | |] | |
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| ttach Addit | ional Shee | ts If Necess | Phone: 5 | 0/5-689-3380 | | | | | | | | |
| Audit Audit | ional Shee | as it necessi | at y | | P | ease inspec | ct liner in a | uestion. | Provide | 1RP- | 5108 | |
| OY1818 | 054280 | Oq | Y1818 | 054842 | N | MOCD with | a concise | report of | fthe | | | |
| | | | | | in | spection w | ith affirma | tion the l | iner has | | | |
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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 | |
|----------------|----------|
| District RP | 1RP-5108 |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party: XTO Energy, Inc | OGRID: 5380 |
|--|-----------------------------------|
| Contact Name: Kyle Littrell | Contact Telephone: (432)-221-7331 |
| Contact email: Kyle_Littrell@xtoenergy.com | Incident #: 1RP-5108 |
| Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 | |

Location of Release Source

Latitude <u>N 32.537538</u>

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Severus 31 Federal Com 3H | Site Type: Production Well Facility |
|--------------------------------------|-------------------------------------|
| Date Release Discovered: 6/14/2018 | API# (if applicable): 30-025-43417 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| Ν | 30 | 20S | 34E | Lea |

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

| Crude Oil | Volume Released (bbls): 10.22 | Volume Recovered (bbls): 9.8 |
|------------------|--|---|
| Produced Water | Volume Released (bbls): <0.5 | Volume Recovered (bbls): <0.5 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

A contract trucking unit arrived to pull fluid down from the gas buster. The driver accidentally put his pump setting to pressure up the trailer instead of pulling a vacuum. While he hooked up his hoses, the trailer had pressured up. When the driver opened his valve, pressure was sent into the gas buster causing fluid to exit the top.

The release affected the lined temporary frac tank containment and a small area of well pad south of the containment.

| Was this a major | If YES, for what reason(s) does the responsible party consider this a major release? |
|--------------------------|---|
| release as defined by | Release volume was less than 25 bbls. |
| 19.15.29.7(A) NMAC? | |
| | |
| 🗌 Yes 🖾 No | |
| | |
| | |
| | |
| If YES, was immediate ne | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| NA | |
| | |

Initial Response

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

 \square The source of the release has been stopped.

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

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

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

If all the actions described above have \underline{not} been undertaken, explain why: N/A

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

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

| Printed Name: Kyle Littrell | Title: <u>SH&E Supervisor</u> |
|--|-----------------------------------|
| Signature: | Date: <u>10-28-2019</u> |
| email: <u>Kyle Littrell@xtoenergy.com</u> Tele | ephone: 432-221-7331 |
| | |
| OCD Only | |
| Received by: | Date: |

Page 2

Received by OCD: 2/21/2023 1:21:59 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

| Incident ID | |
|----------------|----------|
| District RP | 1RP-5108 |
| Facility ID | |
| Application ID | |

Page 14 of 74

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

| Received by OCD: 2/21/202 | 23 1:21:59 PM | | | Page 15 of 74 |
|---|---|---|--|--|
| 101111 C-141 | | | Incident ID | |
| Page 4 | Oil Conservation Division | | | 1RP-5108 |
| | | | Facility ID | |
| | | | Application ID | |
| I hereby certify that the infor regulations all operators are public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Kyle</u> Signature: <u>Kyle</u> email: <u>Kyle Littre</u> | rmation given above is true and complete to th required to report and/or file certain release no nent. The acceptance of a C-141 report by the ate and remediate contamination that pose a th f a C-141 report does not relieve the operator of Littrell | he best of my knowledge a otifications and perform constructions and perform constructions and perform construction of the surface of the surface of responsibility for composite of the surface of the | Ind understand that pursu prective actions for rele e operator of liability sho ace water, human health liance with any other feo upervisor 2019 (432)-221-7331 | uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws |
| OCD Only | | | | |
| Received by: | | Date: | | |
| | | | | |

Oil Conservation Division

| Incident ID | |
|----------------|----------|
| District RP | 1RP-5108 |
| 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.

| <u>Closure Report Attachment Checklist</u> : Each of the following a | items must be included in the closure report. |
|---|---|
| \square A scaled site and sampling diagram as described in 19.15.29. | 11 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate OD | C District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O | the to the best of my knowledge and understand that pursuant to OCD rules in release notifications and perform corrective actions for releases which if a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. |
| Printed Name:Kyle Littrell | Title:SH&E Supervisor |
| Signature: | Date: <u>10-28-2019</u> |
| email:Kyle_Littrell@xtoenergy.com | Telephone:432-221-7331 |
| | |
| OCD Only | |
| Received by: | Date: |
| Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations. |
| Closure Approved by: Buttan Hall | Date: <u>2/21/2023</u> |
| Printed Name: Hall | Title:Environmental Specialist |
| | |

Page 6

Meleased to Imaging: 2/21/2023 1:30:51 MM

| Lat/Long: Comments: | P ntal, Inc. | LITHO | Cal Comp | LT Env 508 Wes rlsbad, l liance · E C / SOI | ironment st Stevens New Mexic Engineering L SAMPI Field Scree | al, Inc. s Street co 88220 g · Remedi LING LC | ID. | Identifier: Date: SSOLA 10-17-19 Project Name: RP Number: Sevenus 3H 2RP-5/08 Logged By: L.A.D. Method: Augur Hole Diameter: Total Depth: | | | | | |
|------------------------|-------------------|----------------|-------------|---|--|---|-------------------|---|---|---|--|--|--|
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks | | | | | |
| Shight | | 0.0 | N。 | 1 | 1 | | | Done stight site | brown, no odori - clomping, tou p y send, no organi | stightly moist, lostravity, poorty graded, cs | | | |

MA 12:05:1 E202/12/2 :gnignml of beseden a

| Lat/Long: Comments: | Ar O.8 O.0 N- 1 2 2' | | | | | |) iation DG DRIDES, PI | D. | Identifier: SSO 2. A. Project Name: Severus 3 H Logged By: L.A.D. Hole Diameter: | Date: 10-17-19 RP Number: 2RP-510B Method: August Total Depth: 21 |
|------------------------|----------------------|----------------|----------|----------|---------------------|-----------------|---------------------------------|------------------------|---|--|
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | | Lithol | ogy/Remarks |
| Steft | 8.0 | 0.0 | N | 1 | 1 | | | Dart sliziv s.1t | e brown, no odo it clumping, low y scu | er, slighty morat, phistury, poury groded, |

MA 12:0E:1 E202/12/2 :Snigpm1 of besoelest

| LT Environm 23 Lat/Long: Comment: | Prential, Inc. | LITHO | LOGIC | T Envi 08 Wes Isbad, I iance · E | ronmenta st Stevens New Mexic Ingineering L SAMPI Field Scree | al, Inc. Street co 88220 · Remedi LING LO ning: CHLO |) ation DG DRIDES, PI | ID. | Identifier: SS3A Project Name: Sevenus 3H Logged By: L.A.D. Hole Diameter: | Date: 10-17-19 RP Number: 2RP-5108 Method: Auger Total Depth: 21 | | | |
|--|---|-------|-------|---|--|---|--------------------------------|--------|---|---|--|--|--|
| Moisture Content | Chloride (ppm) (ppm) (pp | | | | | | | | Lithology/Remarks | | | | |
| Slight | 0.6 | 0.0 | NJ | 1 | 1 | | | Dortes | brown, no odur ity chimping, io y said, no oge | , slighty morst, w plesticity, poorty gruted, areas | | | |

MA 12:02:1 E202/12/2 :Suignal of besoeled

| Lat/Long: | LITHO | L 5 Car Compli | .T Envi 08 Wes Isbad, I iance · E / SOI | ironmenta st Stevens New Mexic Engineering L SAMP | al, Inc. Street co 88220 g · Remedi LING LC ming: CHLC |) iation DG DRIDES, P | ID. | Identifier: SSOGA Project Name: Sevens 3H Logged By: L.A.D. Hole Diameter: | Date: 10-17-19 RP Number: 2RP-5108 Method: Auger Total Depth: 2 ¹ |
|---------------------------------|--|-------------------------|---|---|---|--------------------------------|------------------------|---|--|
| Moisture Content Chloride | Chloride (ppm) (pp | | | | | | | Lithole | ogy/Remarks |
| sight o. | 4 0.0 | Nor | 2 | 1 2 3 4 5 6 7 8 9 10 11 12 | | | Dorte Slogd Groc | - brown, no od at clumping, lo acd, silty soid, | dur, slighty moist, in plostronty, poorty no organizs |

MA 12:02:1 2202/12/2 :2019 01 Descent

| LT Environmental, Inc. | | Car Compl | L T Envi 508 Wes Isbad, I liance · E | ironmenta st Stevens New Mexic Engineering | al, Inc. Street co 88220 · Remedi |) ation | | Identifier: SSO 5 A Project Name: Serces 3H | Date: 10-17-19 RP Number: 2RP-5168 |
|--|----------------|--------------|--|--|---|-------------------|-----------------------|--|--|
| at/Long: | LITHO | LOGIC | : / SOI | L SAMPI | LING LC | DG DRIDES, P | ID. | Logged By: L.A.D. Hole Diameter: | Total Depth: |
| arcong. | | | | | | | | | 2 |
| Moisture Content Content Chloride | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | | Litholo | gy/Remarks |
| Stapht 0.4 | 0.0 | N, | 1 | 1 1 2 3 4 5 6 7 8 9 10 11 12 | | | Dorre Sligh gra | brown, no odur, t clumping , low ded , sitty son | stightly morst; plasticity, poocly j, no organis |

MA 12:0E:1 E202/12/2 :gnigaml of besoelest

| Lat/Long: Comments: | P ntal, Inc. | LITHO | L 5 Cari Compli | .T Envi 08 Wes Isbad, I iance · E / SOI | ironmenta st Stevens New Mexic Ingineering L SAMPI Field Scree | al, Inc. Street Co 88220 Remedi LING LC | ation)G DRIDES, PI | D. | Identifier: SSOGA Project Name: Sevenz 3H Logged By: L.A.D. Hole Diameter: | Date: 10-17-19 RP Number: 2RP-Store LAP S168 Method: Augu Total Depth: 2' |
|------------------------|--|-------|--------------------------|---|---|---|---------------------------|--------------------------|---|---|
| Moisture Content | Chloride Chloride (ppm) | | | | | | Soil/Rock Type | | Lithe | ology/Remarks |
| Slight | 2.6 | 6.0 | N | 1 | 1 2 3 4 5 6 7 8 9 10 11 12 | | | Durke slight silty | brown, no ad clumping, ion scal | or, slighty morst, a clumping, poorly graded, |









Analytical Report 631117

for LT Environmental, Inc.

Project Manager: Dan Moir

Severus 31 Fed Com 3H

012918134

02-AUG-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

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



02-AUG-19

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

Reference: XENCO Report No(s): 631117 Severus 31 Fed Com 3H Project Address: Delaware Basin

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 631117. 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. 631117 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,

Jession Vermer

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



Page 2 of 24



Sample Cross Reference 631117



LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SS01 | S | 07-11-19 14:00 | 6 In | 631117-001 |
| SS02 | S | 07-11-19 14:15 | 6 In | 631117-002 |
| SS03 | S | 07-11-19 14:25 | 6 In | 631117-003 |
| SS04 | S | 07-11-19 14:40 | 6 In | 631117-004 |
| SS05 | S | 07-11-19 14:55 | 6 In | 631117-005 |
| SS06 | S | 07-11-19 15:00 | 6 In | 631117-006 |



CASE NARRATIVE

Page 31 of 74

Client Name: LT Environmental, Inc. Project Name: Severus 31 Fed Com 3H

 Project ID:
 012918134

 Work Order Number(s):
 631117

TORIES

 Report Date:
 02-AUG-19

 Date Received:
 07/17/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3095726 TPH by SW8015 Mod Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 631117-006.

Batch: LBA-3095938 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id:012918134Contact:Dan MoirProject Location:Delaware Basin

Certificate of Analysis Summary 631117

LT Environmental, Inc., Arvada, CO Project Name: Severus 31 Fed Com 3H



Date Received in Lab: Wed Jul-17-19 11:30 am Report Date: 02-AUG-19 Project Manager: Jessica Kramer

| | Lab Id: | 631117-0 | 001 | 631117-0 | 002 | 631117- | 003 | 631117- | 004 | 631117- | 005 | 631117-006 | |
|------------------------------------|------------|-----------------|-------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|
| Analysis Paguested | Field Id: | SS01 | | SS02 | | SS03 | | SS 04 | | SS05 | | SS06 | |
| Analysis Requested | Depth: | 6- In | | 6- In | | 6- In | | 6- In | | 6- In | | 6- In | |
| | Matrix: | SOIL | | SOIL | SOIL | | SOIL | | , | SOIL | | SOIL | |
| | Sampled: | Jul-11-19 14:00 | | Jul-11-19 | 14:15 | Jul-11-19 | 14:25 | Jul-11-19 | 14:40 | Jul-11-19 14:55 | | Jul-11-19 15:00 | |
| BTEX by EPA 8021B | Extracted: | ** ** ** | ** ** ** ** | | ** | ** ** ** | ** | ** ** ** | ** | ** ** ** | ** | ** ** ** ** | |
| | Analyzed: | Jul-19-19 05:15 | | Jul-19-19 (|)5:35 | Jul-19-19 | 05:55 | Jul-19-19 | 15:51 | Jul-19-19 (| 06:35 | Jul-19-19 (| 06:55 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 |
| Toluene | | <0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 |
| Ethylbenzene | | <0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 |
| m,p-Xylenes | | < 0.00398 | 0.00398 | < 0.00403 | 0.00403 | < 0.00397 | 0.00397 | < 0.00403 | 0.00403 | < 0.00398 | 0.00398 | <0.00398 | 0.00398 |
| o-Xylene | | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 |
| Total Xylenes | | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | < 0.00199 | 0.00199 |
| Total BTEX | | < 0.00199 | 0.00199 | < 0.00202 | 0.00202 | < 0.00198 | 0.00198 | < 0.00202 | 0.00202 | < 0.00199 | 0.00199 | <0.00199 | 0.00199 |
| Chloride by EPA 300 | Extracted: | Jul-17-19 16:15 | | Jul-17-19 16:15 | | Jul-17-19 | 16:40 | Jul-17-19 | 16:40 | Jul-17-19 | 16:40 | Jul-17-19 | 16:40 |
| | Analyzed: | Jul-17-192 | 20:11 | Jul-17-19 20:16 | | Jul-17-19 20:45 | | Jul-17-19 20:59 | | Jul-17-19 21:04 | | Jul-17-19 21:09 | |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 164 | 4.98 | 7.98 | 5.01 | 23.7 | 5.00 | 48.1 | 5.05 | 77.3 | 4.99 | <4.95 | 4.95 |
| TPH by SW8015 Mod | Extracted: | Jul-17-19 | 14:00 | Jul-17-19 | 14:00 | Jul-17-19 | 14:00 | Jul-17-19 | 14:00 | Jul-17-19 | 14:00 | Jul-17-19 | 14:00 |
| | Analyzed: | Jul-18-19 (| 04:51 | Jul-18-19 (|)5:15 | Jul-18-19 | 05:38 | Jul-18-19 | 06:01 | Jul-18-19 (| 06:25 | Jul-18-19 (| 06:50 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Diesel Range Organics (DRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Total TPH | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |
| Total GRO-DRO | | <14.9 | 14.9 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 | <15.0 | 15.0 |

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

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

fession kenner

Jessica Kramer Project Assistant

Page 5 of 24





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id:SS01Lab Sample Id:631117-001 | | Matrix: Date Collecte | Soil d: 07.11.19 14.00 | Date Received:07.17.19 11.30 Sample Depth: 6 In | | | | |
|---|------------|--------------------------|---------------------------|--|---------------------------------------|---------------------|-----|--|
| Analytical Method:Chloride by EPTech:CHEAnalyst:CHESeq Number:3095741 | A 300 | Date Prep: | 07.17.19 16.15 | | Prep Method: % Moisture: Basis: | E300P Wet Weight | | |
| Parameter | Cas Number | Result F | L | Units | Analysis Da | te Flag | Dil | |

| rarameter | Cas Number | Result | KL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 164 | 4.98 | mg/kg | 07.17.19 20.11 | | 1 |

| Analytical Method: TPH by SW801 | | | | Р | rep Method: TX | 1005P | | |
|------------------------------------|------------|------------|---------------|----------|----------------|----------------|----------|-----|
| Tech: ALG | | | | | % | Moisture: | | |
| Analyst: ARM | | Date Prep | o: 07.17. | 19 14.00 | В | asis: We | t Weight | |
| Seq Number: 3095726 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | | mg/kg | 07.18.19 04.51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | | mg/kg | 07.18.19 04.51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <14.9 | 14.9 | | mg/kg | 07.18.19 04.51 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | | mg/kg | 07.18.19 04.51 | U | 1 |
| Total GRO-DRO | PHC628 | <14.9 | 14.9 | | mg/kg | 07.18.19 04.51 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 89 | % | 70-135 | 07.18.19 04.51 | | |

%

70-135

07.18.19 04.51

89

84-15-1

o-Terphenyl

.





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: SS | 01 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 |
|--|---------------------------------------|----------------|------------------|---------------------------------------|-----------------------|
| Lab Sample Id: 631117-001 | | Date Collected | : 07.11.19 14.00 | Sample Depth: 6 In | |
| Analytical Method: Tech: ALC Analyst: FOV Seq Number: 309 | : BTEX by EPA 8021B G V 5938 | Date Prep: | 07.17.19 10.32 | Prep Method: % Moisture: Basis: | SW5030B Wet Weight |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 07.19.19 05.15 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 05.15 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 98 | % | 70-130 | 07.19.19 05.15 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 107 | % | 70-130 | 07.19.19 05.15 | | |





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: | SS02 | | Matrix: | Soil | | Date Received | 1:07.17 | .19 11.30 | |
|----------------|--------------------------|------------|--------------|--------------------|-------|---------------|---------|-----------|-----|
| Lab Sample Id | : 631117-002 | | Date Collect | ed: 07.11.19 14.15 | | Sample Depth | 1:6 In | | |
| Analytical Met | thod: Chloride by EPA 30 | 00 | | | | Prep Method: | E300 | Р | |
| Tech: | CHE | | | | | % Moisture: | | | |
| Analyst: | CHE | | Date Prep: | 07.17.19 16.15 | | Basis: | Wet V | Weight | |
| Seq Number: | 3095741 | | | | | | | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Da | ate | Flag | Dil |

| rarameter | Cas Number | Result | KL | Units | Analysis Date | Flag | Dil | |
|-----------|------------|--------|------|-------|----------------|------|-----|--|
| Chloride | 16887-00-6 | 7.98 | 5.01 | mg/kg | 07.17.19 20.16 | | 1 | |

| Analytical Method: TPH by SW801 | 15 Mod | | | | P | rep Method: TX | 1005P | |
|------------------------------------|------------|------------|---------------|----------|--------|----------------|----------|-----|
| Tech: ALG | | | | | 9 | 6 Moisture: | | |
| Analyst: ARM | | Date Pre | p: 07.17. | 19 14.00 | E | Basis: We | t Weight | |
| Seq Number: 3095726 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 07.18.19 05.15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.15 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.15 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.15 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 106 | % | 70-135 | 07.18.19 05.15 | | |

89

%

84-15-1

o-Terphenyl

07.18.19 05.15

70-135





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: | SS02 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 | |
|---------------------------|-------------------------|----------------|------------------|--------------------|------------------|--|
| Lab Sample Id: 631117-002 | | Date Collected | 1:07.11.19 14.15 | Sample Depth: 6 In | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | |
| Tech: | ALG | | | % Moisture: | | |
| Analyst: | FOV | Date Prep: | 07.17.19 10.32 | Basis: | Wet Weight | |
| Seq Number: | 3095938 | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| Toluene | 108-88-3 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00403 | 0.00403 | | mg/kg | 07.19.19 05.35 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| Total BTEX | | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 05.35 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 104 | % | 70-130 | 07.19.19 05.35 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 104 | % | 70-130 | 07.19.19 05.35 | | |




LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS03 l: 631117-003 | | Matrix: Date Collecte | Soil d: 07.11.19 14.25 | | Date Received Sample Depth | :07.17.19 11.3 : 6 In | 0 |
|-----------------------------|---------------------------------|------------|--------------------------|---------------------------|-------|-------------------------------|--------------------------|-----|
| Analytical Me Tech: | thod: Chloride by EPA 30 CHE | 00 | | | | Prep Method: % Moisture: | E300P | |
| Analyst: | CHE | | Date Prep: | 07.17.19 16.40 | | Basis: | Wet Weight | |
| Seq Number: | 3095750 | | | | | | | |
| Parameter | | Cas Number | Result R | L | Units | Analysis Da | ate Flag | Dil |

| rarameter | Cas Number | Kesuit | KL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 23.7 | 5.00 | mg/kg | 07.17.19 20.45 | | 1 |

| Analytical Method: TPH by SW801 | 5 Mod | | | | P | rep Method: TX | 1005P | |
|------------------------------------|------------|------------|---------------|----------|--------|----------------|----------|-----|
| Tech: ALG | | | | | 9 | Moisture: | | |
| Analyst: ARM | | Date Prep | o: 07.17. | 19 14.00 | E | asis: We | t Weight | |
| Seq Number: 3095726 | | - | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 07.18.19 05.38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.38 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.38 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 07.18.19 05.38 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 109 | % | 70-135 | 07.18.19.05.38 | | |

87

%

84-15-1

o-Terphenyl

07.18.19 05.38

70-135





LT Environmental, Inc., Arvada, CO

| Sample Id: | SS03 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 | | |
|------------------------|--------------------------------|----------------|------------------|-----------------------------|------------------|--|--|
| Lab Sample Id | l: 631117-003 | Date Collected | : 07.11.19 14.25 | Sample Depth: 6 In | | | |
| Analytical Me Tech: | thod: BTEX by EPA 8021B ALG | | | Prep Method: % Moisture: | SW5030B | | |
| Analyst: | FOV | Date Prep: | 07.17.19 10.32 | Basis: | Wet Weight | | |
| Seq Number: | 3095938 | | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| Toluene | 108-88-3 | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00397 | 0.00397 | | mg/kg | 07.19.19 05.55 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| Total BTEX | | < 0.00198 | 0.00198 | | mg/kg | 07.19.19 05.55 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 95 | % | 70-130 | 07.19.19 05.55 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 108 | % | 70-130 | 07.19.19 05.55 | | |





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS04 : 631117-004 | | Matrix: Date Collected | Soil l: 07.11.19 14.40 | | Date Received Sample Depth | :07.17.19 11.30 : 6 In | |
|-----------------------------|---------------------------------|------------|---------------------------|---------------------------|-------|-------------------------------|---------------------------|-----|
| Analytical Me Tech: | thod: Chloride by EPA 30 CHE | 00 | | | | Prep Method: % Moisture: | E300P | |
| Analyst: | CHE | | Date Prep: | 07.17.19 16.40 | | Basis: | Wet Weight | |
| Seq Number: Parameter | 3095750 | Cas Number | Result R | L | Units | Analysis Da | ate Flag | Dil |

| | Cas Number | Result | KL | Units | Analysis Date | riag | DII |
|----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 48.1 | 5.05 | mg/kg | 07.17.19 20.59 | | 1 |

| Analytical Method: TPH by SW801 | 5 Mod | | | | P | Prep Method: TX | 1005P | |
|------------------------------------|------------|------------|---------------|----------|--------|-----------------|----------|-----|
| Tech: ALG | | | | | 9 | 6 Moisture: | | |
| Analyst: ARM | | Date Prep | o: 07.17. | 19 14.00 | E | Basis: We | t Weight | |
| Seq Number: 3095726 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 07.18.19 06.01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.01 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.01 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.01 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 98 | % | 70-135 | 07.18.19 06.01 | | |

82

%

70-135

07.18.19 06.01

84-15-1

o-Terphenyl

.





LT Environmental, Inc., Arvada, CO

| Sample Id: | SS04 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 | | |
|-------------------------|--------------------------------|----------------|------------------|-----------------------------|------------------|--|--|
| Lab Sample Id | l: 631117-004 | Date Collected | 1:07.11.19 14.40 | Sample Depth: 6 In | | | |
| Analytical Me Tech: | thod: BTEX by EPA 8021B ALG | | | Prep Method: % Moisture: | SW5030B | | |
| Analyst: Seq Number: | FOV 3095938 | Date Prep: | 07.17.19 10.32 | Basis: | Wet Weight | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| Toluene | 108-88-3 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00403 | 0.00403 | | mg/kg | 07.19.19 15.51 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| Total BTEX | | < 0.00202 | 0.00202 | | mg/kg | 07.19.19 15.51 | U | 1 |
| Surrogate | | Cas Number | % Recoverv | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 94 | % | 70-130 | 07.19.19 15.51 | - | |
| 1,4-Difluorobenzene | | 540-36-3 | 113 | % | 70-130 | 07.19.19 15.51 | | |





LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS05 : 631117-005 | | Matrix: Date Collected | Soil 1: 07.11.19 14.55 | Date Received:07.17.19 | | | 0 |
|-----------------------------|---------------------------------|------------|---------------------------|---------------------------|------------------------|-----------------------------|------------|-----|
| Analytical Met Tech: | thod: Chloride by EPA 30 CHE | 00 | | | | Prep Method: % Moisture: | E300P | |
| Analyst: Seq Number: | CHE 3095750 | | Date Prep: | 07.17.19 16.40 | | Basis: | Wet Weight | |
| Parameter | | Cas Number | Result R | L | Units | Analysis Da | ate Flag | Dil |

| r ai ametei | Cas Number | Result | KL | Units | Analysis Date | riag | DII |
|-------------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 77.3 | 4.99 | mg/kg | 07.17.19 21.04 | | 1 |

| Analytical Method: TPH by SW801 | 15 Mod | | | | P | rep Method: TX | 1005P | | |
|------------------------------------|------------|---------------------------|---------------|-------|-------------------|----------------|-------|-----|--|
| Tech: ALG | | | | | 9 | 6 Moisture: | | | |
| Analyst: ARM | | Date Prep: 07.17.19 14.00 | | | Basis: Wet Weight | | | | |
| Seq Number: 3095726 | | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil | |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.25 | U | 1 | |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 07.18.19 06.25 | U | 1 | |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.25 | U | 1 | |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.25 | U | 1 | |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.25 | U | 1 | |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | | |
| 1-Chlorooctane | | 111-85-3 | 101 | % | 70-135 | 07.18.19 06.25 | | | |

92

%

70-135

07.18.19 06.25

84-15-1

o-Terphenyl

.





LT Environmental, Inc., Arvada, CO

| Sample Id: | SS05 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 | | |
|---------------|-------------------------|----------------|------------------|--------------------|------------------|--|--|
| Lab Sample Id | : 631117-005 | Date Collected | 1:07.11.19 14.55 | Sample Depth: 6 In | | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | | |
| Tech: | ALG | | | % Moisture: | | | |
| Analyst: | FOV | Date Prep: | 07.17.19 10.32 | Basis: | Wet Weight | | |
| Seq Number: | 3095938 | | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 07.19.19 06.35 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.35 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 103 | % | 70-130 | 07.19.19 06.35 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 107 | % | 70-130 | 07.19.19 06.35 | | |



1-Chlorooctane

o-Terphenyl

Certificate of Analytical Results 631117



LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS06 l: 631117-006 | Matrix: Date Collecte | Soil d: 07.11.19 15.00 | Date Received:07.17.19 11.30 Sample Depth: 6 In | | | | | |
|-----------------------------|------------------------------|--------------------------|---------------------------|--|-------|-----------------------------|------------|-----|--|
| Analytical Me Tech: | thod: Chloride by EPA 30 CHE | 00 | | | | Prep Method: % Moisture: | E300P | | |
| Analyst: Seg Number: | CHE 3095750 | | Date Prep: | 07.17.19 16.40 | | Basis: | Wet Weight | | |
| Parameter | | Cas Number | Result R | т. | Units | Analysis D | ate Flag | Dil | |

| Parameter | Cas Number | Kesult | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 07.17.19 21.09 | U | 1 |

| Analytical Method: TPH by SW801 | 5 Mod | | | | Р | rep Method: T2 | X1005P | |
|------------------------------------|---------------------|------------|---------------|-------|----------|----------------|--------|-----|
| Tech: ALG | | | | | % | 6 Moisture: | | |
| Analyst: ARM | Date Prep: 07.17.19 | | 9 14.00 | В | Basis: W | et Weight | | |
| Seq Number: 3095726 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | | mg/kg | 07.18.19 06.50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.50 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.50 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | | mg/kg | 07.18.19 06.50 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |

82

66

%

%

111-85-3

84-15-1

07.18.19 06.50

07.18.19 06.50

**

70-135

70-135





LT Environmental, Inc., Arvada, CO

| Sample Id: | SS06 | Matrix: | Soil | Date Received | 1:07.17.19 11.30 | | |
|------------------------|--------------------------------|----------------|-----------------|-----------------------------|------------------|--|--|
| Lab Sample Id | : 631117-006 | Date Collected | :07.11.19 15.00 | Sample Depth: 6 In | | | |
| Analytical Me Tech: | thod: BTEX by EPA 8021B ALG | | | Prep Method: % Moisture: | SW5030B | | |
| Analyst: | FOV | Date Prep: | 07.17.19 10.32 | Basis: | Wet Weight | | |
| Seq Number: | 3095938 | | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| Toluene | 108-88-3 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00398 | 0.00398 | | mg/kg | 07.19.19 06.55 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| Total BTEX | | < 0.00199 | 0.00199 | | mg/kg | 07.19.19 06.55 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 95 | % | 70-130 | 07.19.19 06.55 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 111 | % | 70-130 | 07.19.19 06.55 | | |



LABORATORIES

Flagging Criteria



Page 45 of 74

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

| SMP Clie | nt Sample | BLK | Method Blank | |
|----------|---------------------------------------|-----------|-----------------------------|--------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | atory 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



Analytical Method: Chloride by EPA 300

QC Summary 631117

E300P

Prep Method:

LT Environmental, Inc.

Severus 31 Fed Com 3H

| Seq Number: | 3095741 | | | Matrix: | Solid | | | Date Prep: 07.17.19 | | | | |
|--------------------|-------------------|-----------------|---------------|--------------------------------|----------------|--------------|--------|-------------------------------|----------|------------|------------------|------|
| MB Sample Id: | 7682248-1-BLK | | LCS Sat | nple Id: | 7682248- | 1-BKS | | LCSD Sample Id: 7682248-1-BSD | | | | |
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | <5.00 | 250 | 242 | 97 | 241 | 96 | 90-110 | 0 | 20 | mg/kg | 07.17.19 17:55 | |
| Analytical Method: | Chloride by EPA 3 | 300 | | | | | | Р | rep Meth | nod: E30 | 0P | |
| Seq Number: | 3095750 | | | Matrix: | Solid | | | | Date P | rep: 07.1 | 7.19 | |
| MB Sample Id: | 7682250-1-BLK | | LCS Sat | nple Id: | 7682250- | 1-BKS | | LCS | D Samp | le Id: 768 | 2250-1-BSD | |
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | <5.00 | 250 | 239 | 96 | 239 | 96 | 90-110 | 0 | 20 | mg/kg | 07.17.19 20:35 | |
| Analytical Method: | Chloride by EPA 3 | 300 | | | | | | Р | rep Meth | nod: E30 | 0P | |
| Seq Number: | 3095741 | | | Matrix: | Soil | | | | Date P | rep: 07.1 | 7.19 | |
| Parent Sample Id: | 631114-025 | | MS Sar | nple Id: | 631114-0 | 25 S | | MS | D Sampl | le Id: 631 | 114-025 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | <0.865 | 252 | 248 | 98 | 248 | 98 | 90-110 | 0 | 20 | mg/kg | 07.17.19 18:10 | |
| Analytical Method: | Chloride by EPA 3 | 300 | | | | | | Р | rep Metł | nod: E30 | 0P | |
| Seq Number: | 3095741 | | | Matrix: | Soil | | | | Date P | rep: 07.1 | 7.19 | |
| Parent Sample Id: | 631116-005 | | MS Sar | nple Id: | 631116-0 | 05 S | | MS | D Samp | le Id: 631 | 116-005 SD | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | <5.00 | 250 | 247 | 99 | 247 | 99 | 90-110 | 0 | 20 | mg/kg | 07.17.19 19:17 | |
| Analytical Method: | Chloride by EPA 3 | 300 | | | | | | Р | rep Metł | nod: E30 | 0P | |
| Seq Number: | 3095750 Matrix: | | | trix: Soil Date Prep: 07.17.19 | | | | | | | | |
| Parent Sample Id: | 631114-008 | | MS Sar | nple Id: | 631114-0 | 08 S | | MS | D Samp | le Id: 631 | 114-008 SD | |

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

Parameter

Chloride

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

Parent

Result

371

Spike

251

Amount

MS

584

Result

MS

85

%Rec

MSD

Result

584

MSD

%Rec

Limits

85 90-110

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

0

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

Analysis

Date

07.17.19 21:57

Flag

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Page 19 of 24

%RPD RPD Limit Units

20

mg/kg





QC Summary 631117

LT Environmental, Inc.

Severus 31 Fed Com 3H

| Analytical Method: | Chloride by EPA | 300 | | | | | | P | rep Metho | od: E3 | 00P | |
|--------------------|------------------|---------------------|--------------|------------|---------------|-------------|--------|------|-----------|----------|------------------|------|
| Seq Number: | 3095750 | | | Matrix: | Soil | | | | Date Pre | ep: 07 | .17.19 | |
| Parent Sample Id: | 631117-003 | | MS Sar | nple Id: | 631117-00 |)3 S | | MS | D Sample | e Id: 63 | 1117-003 SD | |
| Parameter | Parent Result | t Spike t Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limi | it Units | Analysis Date | Flag |
| Chloride | 23.7 | 7 250 | 270 | 99 | 270 | 99 | 90-110 | 0 | 20 | mg/kg | 07.17.19 20:49 | |

| Analytical Method: | TPH by SV | | | | | | P | rep Method | l: TX | 1005P | | | |
|---------------------------|---------------|--------------|------------------------------|---------------|-------------|----------------|---------------------|------------------|---------|---------------|-------|------------------|------|
| Seq Number: | 3095726 | | | Matrix: Solid | | | Date Prep: 07.17.19 | | | | | | |
| MB Sample Id: | 7682239-1-BLK | | LCS Sample Id: 7682239-1-BKS | | 1-BKS | | LCS | SD Sample | ld: 768 | 7682239-1-BSD | | | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | ns (GRO) | <8.00 | 1000 | 1040 | 104 | 925 | 93 | 70-135 | 12 | 20 | mg/kg | 07.17.19 21:45 | |
| Diesel Range Organics (I | DRO) | <8.13 | 1000 | 1140 | 114 | 1050 | 105 | 70-135 | 8 | 20 | mg/kg | 07.17.19 21:45 | |
| Surrogate | | MB %Rec | MB Flag | L0 %] | CS Rec | LCS Flag | LCSI %Re |) LCSI c Flag | | limits | Units | Analysis Date | |
| 1-Chlorooctane | | 89 | | 9 | 98 | | 87 | | 7 | 0-135 | % | 07.17.19 21:45 | |
| o-Terphenyl | | 91 | | 1 | 08 | | 97 | | 7 | 0-135 | % | 07.17.19 21:45 | |

| Analytical Method: Seq Number: | Method:TPH by SW8015 ModPrep Method:TX1er:3095726Matrix:SoilDate Prep:07.1web HeC21114 002MS Sample Id:621114 002 SMSD Sample Id:621114 002 S | | | | | | 1005P 17.19 | | | | | | |
|-----------------------------------|---|------------------|-----------------|--|------------|---------------|----------------|---------------|------------|-----------|-------|------------------|------|
| Parent Sample Id: | 631114-003 | | | MS Sample Id: 631114-003 S MSD Sample Id: 631114-003 S | | | | | 114-003 SD | | | | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | ns (GRO) | 8.42 | 999 | 937 | 93 | 1020 | 101 | 70-135 | 8 | 20 | mg/kg | 07.17.19 22:57 | |
| Diesel Range Organics (I | DRO) | 82.4 | 999 | 1020 | 94 | 1100 | 102 | 70-135 | 8 | 20 | mg/kg | 07.17.19 22:57 | |
| Surrogate | | | | N % | AS Rec | MS Flag | MSD %Rec | MSD c Flag |) L g | imits | Units | Analysis Date | |
| 1-Chlorooctane | | | | 8 | 36 | | 93 | | 7 | 0-135 | % | 07.17.19 22:57 | |
| o-Terphenyl | | | | 8 | 82 | | 86 | | 7 | 0-135 | % | 07.17.19 22:57 | |

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

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BORATORIES

QC Summary 631117

LT Environmental, Inc.

Severus 31 Fed Com 3H

| Analytical Method: Seq Number: MB Sample Id: | BTEX by EPA 8021 3095938 7682225-1-BLK | B | Matrix: Solid LCS Sample Id: 7682225-1-BKS | | | | | Prep Method: SW5030B Date Prep: 07.17.19 LCSD Sample Id: 7682225-1-BSD | | | | |
|--|---|-----------------|---|-------------|----------------|--------------|-----------------|--|---------|-----------|------------------|------|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Lim | iit Units | Analysis Date | Flag |
| Benzene | < 0.00200 | 0.100 | 0.120 | 120 | 0.116 | 116 | 70-130 | 3 | 35 | mg/kg | 07.18.19 21:02 | |
| Toluene | < 0.000456 | 0.100 | 0.0975 | 98 | 0.0982 | 98 | 70-130 | 1 | 35 | mg/kg | 07.18.19 21:02 | |
| Ethylbenzene | < 0.00200 | 0.100 | 0.0897 | 90 | 0.0920 | 92 | 70-130 | 3 | 35 | mg/kg | 07.18.19 21:02 | |
| m,p-Xylenes | < 0.00101 | 0.200 | 0.179 | 90 | 0.184 | 92 | 70-130 | 3 | 35 | mg/kg | 07.18.19 21:02 | |
| o-Xylene | < 0.00200 | 0.100 | 0.0882 | 88 | 0.0901 | 90 | 70-130 | 2 | 35 | mg/kg | 07.18.19 21:02 | |
| Surrogate | MB %Rec | MB Flag | L0 %] | CS Rec | LCS Flag | LCSI %Ree |) LCS 2 Flag | D] ç | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | 111 | | 1 | 15 | | 112 | | 7 | 70-130 | % | 07.18.19 21:02 | |
| 4-Bromofluorobenzene | 82 | | 8 | 33 | | 87 | | 7 | 70-130 | % | 07.18.19 21:02 | |

| Analytical Method: | d: BTEX by EPA 8021B Prep Method: SW5030B | | | | | | | | 5030B | | | |
|----------------------|---|-----------------|--|------------|---------------|-------------|-------------|----------|------------|----------|------------------|------|
| Seq Number: | 3095938 | | Matrix: Soil Date Prep: 07.17.19 | | | | | | | | 7.19 | |
| Parent Sample Id: | 630895-001 | | MS Sample Id: 630895-001 S MSD Sample Id: 630895 | | | | | | 895-001 SD | | | |
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPI |) RPD Lin | it Units | Analysis Date | Flag |
| Benzene | < 0.00201 | 0.100 | 0.0774 | 77 | 0.0846 | 85 | 70-130 | 9 | 35 | mg/kg | 07.19.19 10:00 | |
| Toluene | < 0.000457 | 0.100 | 0.0555 | 56 | 0.0563 | 57 | 70-130 | 1 | 35 | mg/kg | 07.19.19 10:00 | Х |
| Ethylbenzene | < 0.00201 | 0.100 | 0.0420 | 42 | 0.0413 | 42 | 70-130 | 2 | 35 | mg/kg | 07.19.19 10:00 | Х |
| m,p-Xylenes | < 0.00102 | 0.201 | 0.0838 | 42 | 0.0787 | 40 | 70-130 | 6 | 35 | mg/kg | 07.19.19 10:00 | Х |
| o-Xylene | < 0.00201 | 0.100 | 0.0419 | 42 | 0.0422 | 43 | 70-130 | 1 | 35 | mg/kg | 07.19.19 10:00 | Х |
| Surrogate | | | N %] | 1S Rec | MS Flag | MSD %Rec | MSI Flag |) | Limits | Units | Analysis Date | |
| 1,4-Difluorobenzene | | | 1 | 16 | | 119 | | | 70-130 | % | 07.19.19 10:00 | |
| 4-Bromofluorobenzene | | | 8 | 37 | | 85 | | | 70-130 | % | 07.19.19 10:00 | |

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

.

| MC 120 The MC | | |
|---|--|--|
| Forther Thinking 14:00 | to 11/12X. 07.15-19 16-35 Constant | Spec |
| ture) Received by: (Signature) Date/Time | d by: (Şignature) (Reçeived by: (Signature) Date/Time Relinquished by: (Signat | Relinquished b |
| terms and conditions ces beyond the control ously negotiated. | 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 circumstany num charge of \$75.00 will be applied to each project and a charge of \$5 for each sample subnitted to Xenco, but not analyzed. These terms will be enforced unless previous to the submitted to Xenco and the client of the cli | /2023 of service. Xenco will of Xenco. A minimum |
|) Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn) Ag Ti U 1631/245.1/7470 /7471 : Hg | 10.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb <u>Aethod(s) and Metal(s) to be analyzed TCLP / SPLP 6010</u> : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se of this document and relievales of the construction of t | 1:21:3 Lictal ZOU.r Circle Met |
| | | 59 P. |
| | June | |
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| | 8 × × × 1 113 cesi 81.11.2 8 | 303 |
| | 5 5 7.11.19 1455 6" 1 x x x | 5025 |
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| | 3 $\int 7 \cdot 11 \cdot 19$ $1/25$ δ'' 1 \times \times \times | 5 015 |
| | $\frac{2}{2} \qquad \qquad$ | 2055 |
| | $\frac{1}{2}$ | /055 |
| Sample Comments | Sie Identification Matrix Date Time Depth E 74 | ID Sample |
| TAT starts the day received by the lab, i received by 4:00pm | Istody Seals: Yes Ard N/A Total Containers: of C | Sample Custo |
| TI YCEIGIE+ NOOH: TU | Istody Seals: Yes the NIA Correction Factor: Ort Co | Cooler Cust |
| | ceived Intact: (Yes, No Anternovinenally A | Receiv |
| HCL: HL | Denature (°C): (15) (°C) (°C): | SAMPLE REC |
| H2S04: H2 | PO# | |
| HNO3: HN | Name: Spencer Lo Due Date: | Sampler's Na |
| MeOH: Me | Seation Rush: 24 hours | Project Loca |
| QUESI Preservative Codes | umber: 0/2918/34 Posting Pres ANALTSIS RE | Proiect Num |
| | Name: Severus Fed Con 3H Turn Around And And Around | Project Na |
| Deliverables: EDD ADaPT Other: | Phone: 432.236.3849 Email: Stell Stell Harvison | Ph |
| Reporting: Level III Direvel III DEST/JIST DTEED DI AVAL IV | the ZIP: Midlad TX 79705 City State ZIP: Carls had NM GO: | City, State |
| State of Project: | idness: 3300 North A Greet Address: 3104 E. Green Street | Addr |
| | Name: LT EAVIDAMENTA Inc. Company Name: 470 | Company Na |
| | $\frac{1}{2} \frac{1}{2} \frac{1}$ | Project Mana |
| | Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) Phoenix,AZ (480) 355-0900 Atlanta GA (770) 449-8800 Tampa FI (813) 620-2000 Wast Path Booch FI (res | |
| Work Order No: 102117 | Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334 | ge 49 o |
| | | of 74 |
| | | |

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After printing this label:

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

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 07/17/2019 11:30:00 AM Temperature Measuring device used : R8 Work Order #: 631117 Sample Receipt Checklist .3 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes

#13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? N/A #18 Water VOC samples have zero headspace? N/A

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

Analyst:

PH Device/Lot#:

Date: 07/17/2019

Comments

Checklist completed by: Bianna Teel Checklist reviewed by: Mark Moak Kelsey Brooks

Date: 07/18/2019

Analytical Report 640497

for LT Environmental, Inc.

Project Manager: Dan Moir

Severus 31 Fed Com 3H

012918134

24-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483) Received by OCD: 2/21/2023 1:21:59 PM



24-OCT-19

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

Reference: XENCO Report No(s): 640497 Severus 31 Fed Com 3H 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) 640497. 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. 640497 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,

Jession Vermer

Jessica Kramer **Project Assistant**

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



Sample Cross Reference 640497

LT Environmental, Inc., Arvada, CO

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SS01A | S | 10-17-19 14:34 | 2 ft | 640497-001 |
| SS02A | S | 10-17-19 14:59 | 2 ft | 640497-002 |
| SS03A | S | 10-17-19 16:12 | 2 ft | 640497-003 |
| SS04A | S | 10-17-19 16:32 | 2 ft | 640497-004 |
| SS05A | S | 10-17-19 13:50 | 2 ft | 640497-005 |
| SS06A | S | 10-17-19 15:41 | 2 ft | 640497-006 |





CASE NARRATIVE

Page 55 of 74

Client Name: LT Environmental, Inc. Project Name: Severus 31 Fed Com 3H

 Project ID:
 012918134

 Work Order Number(s):
 640497

Report Date: 24-OCT-19 Date Received: 10/21/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3104977 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3105170 Chloride by EPA 300

Lab Sample ID 640502-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 640497-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Project Id: 012918134

Dan Moir

Contact:

Project Location:

Certificate of Analysis Summary 640497

LT Environmental, Inc., Arvada, CO Project Name: Severus 31 Fed Com 3H

Page 56 of 74

Date Received in Lab: Mon Oct-21-19 09:10 am Report Date: 24-OCT-19 Project Manager: Jessica Kramer

| | Lab Id: | 640497-0 | 001 | 640497-0 | 002 | 640497-0 | 003 | 640497-0 | 004 | 640497- | 005 | 640497-0 | 006 |
|------------------------------------|------------|-------------|-----------------|-------------|----------|-----------------|---------|------------|----------|------------|----------|-----------|---------|
| Analysis Paguested | Field Id: | SS01A | | SS02A | \ | SS03A | A | SS04A | A | SS054 | A | SS06A | A |
| Analysis Kequesiea | Depth: | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | | 2- ft | |
| | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | , | SOIL | | SOIL | |
| | Sampled: | Oct-17-19 | 14:34 | Oct-17-19 | 14:59 | Oct-17-19 | 16:12 | Oct-17-19 | 16:32 | Oct-17-19 | 13:50 | Oct-17-19 | 15:41 |
| BTEX by EPA 8021B | Extracted: | Oct-21-19 | Oct-21-19 14:10 | | 14:10 | Oct-21-19 14:10 | | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 |
| | Analyzed: | Oct-22-19 (| 04:27 | Oct-22-19 (| 04:48 | Oct-22-19 | 06:03 | Oct-22-19 | 06:23 | Oct-22-19 | 06:44 | Oct-22-19 | 07:04 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | <0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| Toluene | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | < 0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| Ethylbenzene | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | < 0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| m,p-Xylenes | | < 0.00199 | 0.00199 | < 0.00198 | 0.00198 | < 0.00201 | 0.00201 | < 0.00198 | 0.00198 | < 0.00200 | 0.00200 | < 0.00202 | 0.00202 |
| o-Xylene | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | < 0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| Total Xylenes | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | < 0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| Total BTEX | | < 0.000994 | 0.000994 | < 0.000992 | 0.000992 | < 0.00100 | 0.00100 | < 0.000992 | 0.000992 | < 0.000998 | 0.000998 | < 0.00101 | 0.00101 |
| Chloride by EPA 300 | Extracted: | Oct-21-19 2 | 20:10 | Oct-21-19 2 | 20:10 | Oct-21-19 | 20:10 | Oct-21-19 | 20:10 | Oct-21-19 | 20:10 | Oct-21-19 | 20:10 |
| | Analyzed: | Oct-22-19 | 14:16 | Oct-22-19 | 14:35 | Oct-22-19 | 14:41 | Oct-22-19 | 14:47 | Oct-22-19 | 14:54 | Oct-22-19 | 15:13 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 56.4 | 9.98 | 50.5 | 9.96 | 29.9 | 9.98 | <9.92 | 9.92 | 11.3 | 9.98 | 350 | 10.0 |
| TPH by SW8015 Mod | Extracted: | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 | Oct-21-19 | 14:10 |
| | Analyzed: | Oct-21-19 | 17:10 | Oct-21-19 | 17:10 | Oct-21-19 | 17:30 | Oct-21-19 | 17:30 | Oct-21-19 | 17:50 | Oct-21-19 | 17:50 |
| | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.3 | 50.3 | < 50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.3 | 50.3 |
| Diesel Range Organics (DRO) | | <50.0 | 50.0 | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.3 | 50.3 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 | 50.0 | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.3 | 50.3 |
| Total GRO-DRO | | <50.0 | 50.0 | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.3 | 50.3 |
| Total TPH | | <50.0 | 50.0 | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <49.9 | 49.9 | <50.3 | 50.3 |

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

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

fession kramer

Jessica Kramer Project Assistant



Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS01A d: 640497-001 | | Matrix: Date Colle | Soil cted: 10.17.19 14.34 | | Date Received:10 Sample Depth:2 f | 0 | |
|-----------------------------|-------------------------------|------------|-----------------------|------------------------------|-------|--------------------------------------|-----------|-----|
| Analytical Me | ethod: Chloride by EPA | 300 | | | | Prep Method: E3 | 00P | |
| Tech: | MAB | | | | | % Moisture: | | |
| Analyst: | MAB | | Date Prep: | 10.21.19 20.10 | | Basis: We | et Weight | |
| Seq Number: | 3105170 | | | | | | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
| Chloride | | 16887-00-6 | 56.4 | 9.98 | mg/kg | 10.22.19 14.16 | | 1 |

| Analytical Method: TPH by SW801 | | | | Р | rep Method: SW | /8015P | | |
|------------------------------------|------------|------------|---------------|-----------|----------------|----------------|----------|-----|
| Tech: DTH | | | | | % | Moisture: | | |
| Analyst: DTH | | Date Pre | p: 10.21 | .19 14.10 | Е | asis: We | t Weight | |
| Seq Number: 3104972 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | < 50.0 | 50.0 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Total GRO-DRO | PHC628 | < 50.0 | 50.0 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Total TPH | PHC635 | < 50.0 | 50.0 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 84 | % | 70-135 | 10.21.19 17.10 | | |
| o-Terphenyl | | 84-15-1 | 83 | % | 70-135 | 10.21.19 17.10 | | |

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LT Environmental, Inc., Arvada, CO

| Sample Id: | SS01A | Matrix: | Soil | Date Received | 1:10.21.19 09.10 |
|---------------|-------------------------|----------------|------------------|---------------|------------------|
| Lab Sample Id | l: 640497-001 | Date Collected | : 10.17.19 14.34 | Sample Depth | :2 ft |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight |
| Seq Number: | 3104977 | | | | |

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| Toluene | 108-88-3 | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00199 | 0.00199 | | mg/kg | 10.22.19 04.27 | U | 1 |
| o-Xylene | 95-47-6 | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| Total BTEX | | < 0.000994 | 0.000994 | | mg/kg | 10.22.19 04.27 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 113 | % | 70-130 | 10.22.19 04.27 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 10.22.19 04.27 | | |



| Sample Id: Lab Sample Id | SS02A l: 640497-002 | | Matrix: Date Collec | Soil ted: 10.17.19 14.59 | | Date Received: Sample Depth: |) | |
|------------------------------------|---------------------------------------|------------|------------------------|-----------------------------|-------|---------------------------------------|---------------------|-----|
| Analytical Me Tech: Analyst: | thod: Chloride by EPA 3 MAB MAB | 800 | Date Prep: | 10.21.19 20.10 | | Prep Method: % Moisture: Basis: | E300P Wet Weight | |
| Seq Number: | 3105170 | | Dure Trept | | | | U | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Da | te Flag | Dil |
| Chloride | | 16887-00-6 | 50.5 | 9.96 | mg/kg | 10.22.19 14.3 | 35 | 1 |

| Analytical Method: TPH by SW801 | | | | P | rep Method: SV | /8015P | | |
|------------------------------------|------------|------------|---------------|----------|----------------|----------------|-----------|-----|
| Tech: DTH | | | | | 9 | 6 Moisture: | | |
| Analyst: DTH | | Date Pre | p: 10.21 | 19 14.10 | E | asis: We | et Weight | |
| Seq Number: 3104972 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.10 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 78 | % | 70-135 | 10.21.19 17.10 | | |
| o-Terphenyl | | 84-15-1 | 81 | % | 70-135 | 10.21.19 17.10 | | |



LT Environmental, Inc., Arvada, CO

| Sample Id: | SS02A | Matrix: | Soil | Date Received | 1:10.21.19 09.10 | | |
|---------------|-------------------------|----------------|------------------|--------------------|------------------|--|--|
| Lab Sample Id | l: 640497-002 | Date Collected | : 10.17.19 14.59 | Sample Depth: 2 ft | | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | | |
| Tech: | MAB | | | % Moisture: | | | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight | | |
| Seq Number: | 3104977 | | | | | | |

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| Toluene | 108-88-3 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 10.22.19 04.48 | U | 1 |
| o-Xylene | 95-47-6 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| Total BTEX | | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 04.48 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 10.22.19 04.48 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 114 | % | 70-130 | 10.22.19 04.48 | | |



Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS03A 1: 640497-003 | | Matrix: Date Colle | Soil cted: 10.17.19 16.12 | | Date Received Sample Depth: | :10.21.19 09 2 ft | .10 |
|-----------------------------|-------------------------------|------------|-----------------------|------------------------------|-------|--------------------------------|----------------------|-----|
| Analytical Me | ethod: Chloride by EPA | 300 | | | | Prep Method: | E300P | |
| Tech: Analyst: | MAB | | Date Prep: | 10.21.19 20.10 | | Basis: | Wet Weight | |
| Seq Number: | 3105170 | | | | | | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Da | ite Flag | Dil |
| Chloride | | 16887-00-6 | 29.9 | 9.98 | mg/kg | 10.22.19 14.4 | 41 | 1 |

| Analytical Method: TPH by SW801 | 15 Mod | | | | Р | rep Method: SV | V8015P | |
|------------------------------------|------------|------------|---------------|-----------|--------|----------------|-----------|-----|
| Tech: DTH | | | | | % | Moisture: | | |
| Analyst: DTH | | Date Prep | : 10.21 | .19 14.10 | В | asis: W | et Weight | |
| Seq Number: 3104972 | | - | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 76 | % | 70-135 | 10.21.19 17.30 | | |

74

%

70-135

10.21.19 17.30

84-15-1

o-Terphenyl

.



LT Environmental, Inc., Arvada, CO

| Sample Id: | SS03A | Matrix: | Soil | Date Received | 1:10.21.19 09.10 | |
|---------------|-------------------------|----------------|------------------|--------------------|------------------|--|
| Lab Sample Id | l: 640497-003 | Date Collected | : 10.17.19 16.12 | Sample Depth: 2 ft | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | |
| Tech: | MAB | | | % Moisture: | | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight | |
| Seq Number: | 3104977 | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| Toluene | 108-88-3 | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00201 | 0.00201 | | mg/kg | 10.22.19 06.03 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| Total BTEX | | < 0.00100 | 0.00100 | | mg/kg | 10.22.19 06.03 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | | 460-00-4 | 105 | % | 70-130 | 10.22.19 06.03 | | |
| 1,4-Difluorobenzene | | 540-36-3 | 101 | % | 70-130 | 10.22.19 06.03 | | |



Severus 31 Fed Com 3H

| Sample Id:SS04ALab Sample Id:640497-004 | | Matrix: Date Collected | Soil l: 10.17.19 16.32 | Date Re Sample | eceived:10.2 Depth:2 ft | 1.19 09.10 | |
|--|------------|---------------------------|---------------------------|----------------------------|------------------------------|--------------|-----|
| Analytical Method:Chloride by EPA 3Tech:MABAnalyst:MABSeq Number:3105170 | 00 | Date Prep: | 10.21.19 20.10 | Prep M % Mois Basis: | ethod: E300 sture: Wet |)P Weight | |
| Parameter | Cas Number | Result R | L U | nits Ana | ılysis Date | Flag | Dil |

| rarameter | Cas Number | Result | KL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <9.92 | 9.92 | mg/kg | 10.22.19 14.47 | U | 1 |

| Analytical Method: TPH by SW80 | 15 Mod | | | | Р | rep Method: SV | /8015P | |
|------------------------------------|------------|------------|---------------|----------|--------|----------------|-----------|-----|
| Tech: DTH | | | | | % | Moisture: | | |
| Analyst: DTH | | Date Prep | : 10.21 | 19 14.10 | В | asis: We | et Weight | |
| Seq Number: 3104972 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | | mg/kg | 10.21.19 17.30 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 76 | % | 70-135 | 10.21.19 17.30 | | |

77

%

70-135

10.21.19 17.30

84-15-1

o-Terphenyl



LT Environmental, Inc., Arvada, CO

| Sample Id: | SS04A | Matrix: | Soil | Date Received | 1:10.21.19 09.10 | |
|---------------|-------------------------|----------------|------------------|--------------------|------------------|--|
| Lab Sample Id | l: 640497-004 | Date Collected | : 10.17.19 16.32 | Sample Depth: 2 ft | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | |
| Tech: | MAB | | | % Moisture: | | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight | |
| Seq Number: | 3104977 | | | | | |

| Parameter | Cas Number | r Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| Toluene | 108-88-3 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00198 | 0.00198 | | mg/kg | 10.22.19 06.23 | U | 1 |
| o-Xylene | 95-47-6 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| Total BTEX | | < 0.000992 | 0.000992 | | mg/kg | 10.22.19 06.23 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 10.22.19 06.23 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 109 | % | 70-130 | 10.22.19 06.23 | | |



LT Environmental, Inc., Arvada, CO

Severus 31 Fed Com 3H

| Sample Id: Lab Sample Id | SS05A : 640497-005 | | Matrix: Date Collect | Soil ed: 10.17.19 13.50 | | Date Received Sample Depth | :10.21.19 09.1 :2 ft | 0 |
|-----------------------------|---------------------------------|------------|-------------------------|----------------------------|-------|-------------------------------|-------------------------|-----|
| Analytical Me Tech: | thod: Chloride by EPA 30 MAB | 00 | | | | Prep Method: % Moisture: | E300P | |
| Analyst: | MAB | | Date Prep: | 10.21.19 20.10 | | Basis: | Wet Weight | |
| Seq Number: | 3105170 | | | | | | | |
| Parameter | | Cas Number | Result | RL | Units | Analysis Da | ate Flag | Dil |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 11.3 | 9.98 | mg/kg | 10.22.19 14.54 | | 1 |

| Analytical Method: TPH by SW801 | 15 Mod | | | | Р | rep Method: SW | /8015P | |
|------------------------------------|------------|------------|---------------|-----------|--------|----------------|----------|-----|
| Tech: DTH | | | | | % | 6 Moisture: | | |
| Analyst: DTH | | Date Pre | p: 10.21 | .19 14.10 | В | Basis: We | t Weight | |
| Seq Number: 3104972 | | | | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Surrogate | | Cas Number | % Recoverv | Units | Limits | Analysis Date | Flag | |

111-85-3

84-15-1

, 74

73

%

%

1-Chlorooctane

o-Terphenyl

.

10.21.19 17.50

10.21.19 17.50

70-135

70-135



LT Environmental, Inc., Arvada, CO

| Sample Id: | SS05A | Matrix: | Soil | Date Received | :10.21.19 09.10 | | | |
|---------------|-------------------------|----------------|------------------|--------------------|-----------------|--|--|--|
| Lab Sample Id | l: 640497-005 | Date Collected | : 10.17.19 13.50 | Sample Depth: 2 ft | | | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | | | |
| Tech: | MAB | | | % Moisture: | | | | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight | | | |
| Seq Number: | 3104977 | | | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|---------------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| Toluene | 108-88-3 | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00200 | 0.00200 | | mg/kg | 10.22.19 06.44 | U | 1 |
| o-Xylene | 95-47-6 | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| Total BTEX | | < 0.000998 | 0.000998 | | mg/kg | 10.22.19 06.44 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 10.22.19 06.44 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 112 | % | 70-130 | 10.22.19 06.44 | | |



| Sample Id: Lab Sample Ic | SS06A l: 640497-006 | | Matrix: Date Collec | Soil cted: 10.17.19 15.41 | | Date Received Sample Depth | :10.21.19 (:2 ft | 19.10 |
|---|--|------------|------------------------|------------------------------|-------|---------------------------------------|----------------------|-------|
| Analytical Me Tech: Analyst: Seq Number: | thod: Chloride by EPA MAB MAB 3105170 | 300 | Date Prep: | 10.21.19 20.10 | | Prep Method: % Moisture: Basis: | E300P Wet Weig | ht |
| Parameter | | Cas Number | Result | RL | Units | Analysis Da | ate Flag | Dil |
| Chloride | | 16887-00-6 | 350 | 10.0 | mg/kg | 10.22.19 15. | 13 | 1 |

| Analytical Method: TPH by SW801 | 5 Mod | | | | P | rep Method: SW | 8015P | |
|------------------------------------|------------|------------|---------------|----------|--------|----------------|----------|-----|
| Tech: DTH | | | | | 9 | Moisture: | | |
| Analyst: DTH | | Date Pre | p: 10.21 | 19 14.10 | E | asis: We | t Weight | |
| Seq Number: 3104972 | | | - | | | | | |
| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | | mg/kg | 10.21.19 17.50 | U | 1 |
| Surrogate | | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1-Chlorooctane | | 111-85-3 | 73 | % | 70-135 | 10.21.19 17.50 | | |
| o-Terphenyl | | 84-15-1 | 78 | % | 70-135 | 10.21.19 17.50 | | |



LT Environmental, Inc., Arvada, CO

| Sample Id: | SS06A | Matrix: | Soil | Date Received | 1:10.21.19 09.10 | | |
|---------------|-------------------------|----------------|------------------|--------------------|------------------|--|--|
| Lab Sample Id | l: 640497-006 | Date Collected | : 10.17.19 15.41 | Sample Depth: 2 ft | | | |
| Analytical Me | thod: BTEX by EPA 8021B | | | Prep Method: | SW5030B | | |
| Tech: | MAB | | | % Moisture: | | | |
| Analyst: | MAB | Date Prep: | 10.21.19 14.10 | Basis: | Wet Weight | | |
| Seq Number: | 3104977 | | | | | | |

| Parameter | Cas Number | Result | RL | | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|------------|----------|-------|--------|----------------|------|-----|
| Benzene | 71-43-2 | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| Toluene | 108-88-3 | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| Ethylbenzene | 100-41-4 | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | < 0.00202 | 0.00202 | | mg/kg | 10.22.19 07.04 | U | 1 |
| o-Xylene | 95-47-6 | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| Total Xylenes | 1330-20-7 | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| Total BTEX | | < 0.00101 | 0.00101 | | mg/kg | 10.22.19 07.04 | U | 1 |
| - | | | % | | | | | |
| Surrogate | | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | | 540-36-3 | 105 | % | 70-130 | 10.22.19 07.04 | | |
| 4-Bromofluorobenzene | | 460-00-4 | 113 | % | 70-130 | 10.22.19 07.04 | | |



Flagging Criteria

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

| SMP Clie | nt Sample | BLK | Method Blank | |
|----------|---------------------------------------|-----------|-----------------------------|--------------------------------|
| BKS/LCS | Blank Spike/Laboratory Control Sample | BKSD/LCSD | Blank Spike Duplicate/Labor | atory 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



BORATORIES



LT Environmental, Inc.

Severus 31 Fed Com 3H

| Analytical Method: | Chloride b | y EPA 30 |)0 | | | | | | Pr | ep Meth | od: E30 | 0P | |
|----------------------------------|-----------------------|------------------|-----------------|---------------|---------------------|-------------------|--------------|------------------|------------|------------------|-------------------------|---------------------|------|
| Seq Number: | 3105170 | | | | Matrix: | Solid | | | | Date Pr | ep: 10.2 | 1.19 | |
| MB Sample Id: | 7688575-1- | BLK | | LCS Sar | nple Id: | 7688575- | 1-BKS | | LCSI | O Sampl | e Id: 768 | 8575-1-BSD | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD 1 | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | | <10.0 | 250 | 268 | 107 | 269 | 108 | 90-110 | 0 | 20 | mg/kg | 10.22.19 14:04 | |
| Analytical Method: | Chloride b | y EPA 3(|)0 | | | | | | Pr | ep Meth | od: E30 | 0P | |
| Seq Number: Parent Sample Id: | 3105170 640497-001 | l | | MS Sar | Matrix: nple Id: | Solid 640497-0 | 01 S | | MSI | Date Pr Sampl | rep: 10.2 e Id: 6404 | 21.19 497-001 SD | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD 1 | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | | 56.4 | 200 | 290 | 117 | 292 | 118 | 90-110 | 1 | 20 | mg/kg | 10.22.19 14:22 | Х |
| Analytical Method: | Chloride b | y EPA 3(|)0 | | | | | | Pr | ep Meth | od: E30 | 0P | |
| Seq Number: | 3105170 | | | | Matrix: | Solid | | | | Date Pr | ep: 10.2 | 1.19 | |
| Parent Sample Id: | 640502-004 | 1 | | MS Sar | nple Id: | 640502-0 | 04 S | | MSI | O Sampl | e Id: 640 | 502-004 SD | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD 1 | RPD Lin | nit Units | Analysis Date | Flag |
| Chloride | | 1640 | 1980 | 4150 | 127 | 4210 | 129 | 90-110 | 1 | 20 | mg/kg | 10.22.19 16:03 | Х |
| Analytical Method: | TPH by SV | V8015 M | od | | | | | | Pr | ep Meth | od: SW | 8015P | |
| Seq Number: | 3104972 | | | | Matrix: | Solid | | | | Date Pr | ep: 10.2 | 1.19 | |
| MB Sample Id: | 7688557-1- | BLK | | LCS Sar | nple Id: | 7688557- | 1-BKS | | LCSI | O Sampl | e Id: 768 | 8557-1-BSD | |
| Parameter | | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD 1 | RPD Lin | nit Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | ons (GRO) | < 50.0 | 1000 | 937 | 94 | 938 | 94 | 70-135 | 0 | 35 | mg/kg | 10.21.19 14:12 | |
| Diesel Range Organics (| (DRO) | <50.0 | 1000 | 828 | 83 | 862 | 86 | 70-135 | 4 | 35 | mg/kg | 10.21.19 14:12 | |
| Surrogate | | MB %Rec | MB Flag | L % | CS Rec | LCS Flag | LCSI %Re |) LCSI c Flag | D Liı ç | mits | Units | Analysis Date | |
| 1-Chlorooctane | | 89 | | 1 | 13 | | 113 | | 70 | -135 | % | 10.21.19 14:12 | |
| o-Terphenyl | | 91 | | 1 | 07 | | 112 | | 70 | -135 | % | 10.21.19 14:12 | |
| | | | | | | | | | | | | | |

| Analytical Method: Seq Number: | TPH by SW8015 Mod 3104972 | Matrix: MB Sample Id: | Solid 7688557-1-BLK | Prep Method: Date Prep: | SW80 10.21 |)15P .19 | |
|-----------------------------------|-------------------------------------|--------------------------|------------------------|----------------------------|---------------|------------------|------|
| Parameter | | MB Result | | Ŭ | nits | Analysis Date | Flag |
| Motor Oil Range Hydrocarb | ons (MRO) | <50.0 | | m | ng/kg | 10.21.19 13:52 | |

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} & [D] = 100*(C-A) \ / \ B \\ & RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ & [D] = 100*(C) \ / \ [B] \\ & Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{split}$$

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 19 of 22





QC Summary 640497

LT Environmental, Inc.

Severus 31 Fed Com 3H

| Analytical Method: | alytical Method: TPH by SW8015 Mod | | | | | | | | F | Prep Method | l: SW | 8015P | |
|---------------------------|------------------------------------|------------------|-----------------|--------------|--|--------------------------|-------------|-----------------|----------|-------------|-------|------------------|------|
| Seq Number: | 3104972 | | | | Matrix: | Soil Date Prep: 10.21.19 | | | | | 21.19 | | |
| Parent Sample Id: | Parent Sample Id: 640495-003 | | | MS San | MS Sample Id: 640495-003 S MSD Sample Id: 64 | | [d: 640 | 495-003 SD | | | | | |
| Parameter | | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
| Gasoline Range Hydrocarbo | ons (GRO) | < 50.2 | 1000 | 886 | 89 | 846 | 85 | 70-135 | 5 | 35 | mg/kg | 10.21.19 14:32 | |
| Diesel Range Organics (| DRO) | < 50.2 | 1000 | 809 | 81 | 765 | 77 | 70-135 | 6 | 35 | mg/kg | 10.21.19 14:32 | |
| Surrogate | | | | N %] | 1S Rec | MS Flag | MSD %Re | o MSD c Flag |) I g | Limits | Units | Analysis Date | |
| 1-Chlorooctane | | | | 1 | 01 | | 85 | | 7 | 0-135 | % | 10.21.19 14:32 | |
| o-Terphenyl | | | | 8 | 37 | | 81 | | 7 | 0-135 | % | 10.21.19 14:32 | |

| Analytical Method: Seq Number: MB Sample Id: | BTEX by EPA 8021 3104977 7688601-1-BLK | В | l LCS San | Matrix: ple Id: | Solid 7688601- | 1-BKS | |] LC | Prep Metho Date Pre SD Sample | d: SW p: 10.2 Id: 768 | SW5030B 10.21.19 I: 7688601-1-BSD | | |
|--|---|-----------------|---------------|--------------------|-------------------|--------------|-------------|----------|-------------------------------------|-----------------------------|---|------|--|
| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPI |) RPD Limit | Units | Analysis Date | Flag | |
| Benzene | < 0.00100 | 0.100 | 0.0975 | 98 | 0.0993 | 99 | 70-130 | 2 | 35 | mg/kg | 10.21.19 23:48 | | |
| Toluene | < 0.00100 | 0.100 | 0.0935 | 94 | 0.0949 | 95 | 70-130 | 1 | 35 | mg/kg | 10.21.19 23:48 | | |
| Ethylbenzene | < 0.00100 | 0.100 | 0.0955 | 96 | 0.0960 | 96 | 71-129 | 1 | 35 | mg/kg | 10.21.19 23:48 | | |
| m,p-Xylenes | < 0.00200 | 0.200 | 0.190 | 95 | 0.191 | 96 | 70-135 | 1 | 35 | mg/kg | 10.21.19 23:48 | | |
| o-Xylene | < 0.00100 | 0.100 | 0.0959 | 96 | 0.0981 | 98 | 71-133 | 2 | 35 | mg/kg | 10.21.19 23:48 | | |
| Surrogate | MB %Rec | MB Flag | L0 %1 | CS Rec | LCS Flag | LCSD %Rec | LCS Flag | D] g | Limits | Units | Analysis Date | | |
| 1,4-Difluorobenzene | 102 | | 10 | 04 | | 105 | | - | 70-130 | % | 10.21.19 23:48 | | |
| 4-Bromofluorobenzene | 106 | | 10 |)6 | | 110 | | - | 70-130 | % | 10.21.19 23:48 | | |

| Analytical Method: Seq Number: Parent Sample Id: | BTEX by EPA 802 3104977 640495-008 | IB |] MS San | Matrix: nple Id: | Soil 640495-00 |)8 S | | F MS | Prep Metho Date Pre SD Sample | d: SW: p: 10.2 Id: 640 | SW5030B 10.21.19 : 640495-008 SD | | |
|---|---|-----------------|--------------|---------------------|-------------------|-------------|-------------|----------|-------------------------------------|------------------------------|--|------|--|
| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limi | t Units | Analysis Date | Flag | |
| Benzene | < 0.00100 | 0.100 | 0.0799 | 80 | 0.0751 | 75 | 70-130 | 6 | 35 | mg/kg | 10.22.19 00:29 | | |
| Toluene | < 0.00100 | 0.100 | 0.0754 | 75 | 0.0705 | 71 | 70-130 | 7 | 35 | mg/kg | 10.22.19 00:29 | | |
| Ethylbenzene | < 0.00100 | 0.100 | 0.0783 | 78 | 0.0744 | 74 | 71-129 | 5 | 35 | mg/kg | 10.22.19 00:29 | | |
| m,p-Xylenes | < 0.00200 | 0.200 | 0.155 | 78 | 0.147 | 74 | 70-135 | 5 | 35 | mg/kg | 10.22.19 00:29 | | |
| o-Xylene | < 0.00100 | 0.100 | 0.0786 | 79 | 0.0742 | 74 | 71-133 | 6 | 35 | mg/kg | 10.22.19 00:29 | | |
| Surrogate | | | N %1 | IS Rec | MS Flag | MSD %Rec | MSI Flag |) I ; | <i>i</i> mits | Units | Analysis Date | | |
| 1,4-Difluorobenzene | | | 1 | 04 | | 102 | | 7 | 0-130 | % | 10.22.19 00:29 | | |
| 4-Bromofluorobenzene | | | 1 | 10 | | 106 | | 7 | 0-130 | % | 10.22.19 00:29 | | |

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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| Fotal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be e: Signature of this document and relinquishmer rvice. Xenco will be Itable only for the cost of sa neco. A minimum charge of \$75.00 will be applied Relinquished by: (Signature) | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be e: Signature of this document and relinquishmen rvice. Xenco will be liable only for the cost of sa nco. A minimum charge of \$75.00 will be applied | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be | 1 Chelle | | | 5506A V | \$50 S A | 5504 A | 45034 | 1 42 253 | SSOLA S | Sample Identification Mat | mple Custody Seals: Yes to N | oler Custody Seals: Yes to N | ceived Intact: (Tes) No | mperature (°C): | AMPLE RECEIPT Temp Bla | mpler's Name: Benjamin Bellit (| D. Number: | oject Number: 012918134 | oject Name: Sevenus 31 Fed | 10ne: 432.236.3849 | ty, State ZIP: Midland, TX 79705 | Idress: 3300 North A Stree | ompany Name: LT Environmental, | oject Manager: Dan Moir | | XENCO | |
|--|---|--|---|------|---|---------|----------|--------|-------|----------|---------------|---------------------------------|--|------------------------------|--|-----------------|------------------------|---------------------------------|------------|-------------------------|----------------------------|------------------------|----------------------------------|----------------------------|--------------------------------|-------------------------|--|---------------------------------|-----------|
| Received by: (Signa | to each project and a charge of | n or samples constitutes a valid mples and shall not assume any | analyzed TCLP / SI | Wh C | | N 1241 | 1250 | 1/20 | 1612 | 1 1459 | 10/17/19 1434 | rix Date Time Sampled Sample | /A Total Containe | IA Correction Fact | - Mr - | Thermome | ank: Yes No Wet In | is Del Vil Du | R | Ro | Com 3H | Em | | + | Inc., Permian office | | MI Hobbs,NM (575 | Hou | |
| | ture) | purchase order from client responsibility for any loss \$5 for each sample submit | 3PPM Texas 11 A PLP 6010: 8RCRA | | | V V | | | | - | 2 4 | d Depth Numbe | R F ar of | or: - 0.2 | 0 J I I I I I I I I I I I I I I I I I I | ter ID | ce: Tes No | le Date: | ish: | outine | Turn Around | ail: Idelval@ltenv.com | City, State ZIP: | Address: | Company Name: | Bill to: (if different) | diand, I X (432-704-5440) -392-7550) Phoenix,AZ (• | ston, TX (281) 240-4200 | |
| 1 | Date/Time | t company to Xenco, its aff es or expenses incurred by tted to Xenco, but not analy | l Sb As Ba Be B Sb As Ba Be Cd | (| | VVV | | | | | × × × | TPH (EF BTEX (E Chloride | PA 80 EPA 0 e (EP/ | 15) =80: A 30 | 21) | | | | | | | m | Carlsbad, NM 88220 | 3104 E Green Stree | XTO Energy | Kyle Littrell | EL Paso,TX (915)585-3 480-355-0900) Atlanta,G | Dallas, TX (214) 902-0300 | hain of C |
| Anne Bren | Relinquished by: (Signat | iliates and subcontractors. It assig y the client if such losses are due to yzed. These terms will be enforced | Cd Ca Cr Co Cu Fe Pt Cr Co Cu Pb Mn Mo M | | | | | | | | | | | | | | | | | | ANALYSIS REQU | | 0 | et | | | 443 Lubbock,TX (806)794-1296 3A (770-449-8800) Tampa,FL (81 | 0 San Antonio,TX (210) 509-333- | netodu |
| Contra - | ure) Received by: (Signa | ns standard terms and conditions o circumstances beyond the control unless previously negotiated. | b Mg Mn Mo Ni K Se Ag SiO2 vi Se Ag Tl U | | | | | | | | | | | | | | | | | | JEST | Deliverables: EDD AD | Reporting:Level IIevel III | State of Project: | Program: UST/PST PRP Bro | Work Ord | 3-620-2000) www.xenco.cl | | E |
| 10/11/209 | ture) Date/Time | | Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hy | | (| | | / | - | | | Sample Comments | TAT starts the day received by lab, if received by 4:30pm | | | | | | | | Work Order Notes | aPT Other: | ST/UST RRP BVBIV | [| wnfields RC uperfund | er Comments | om Page 1 of 1 | NO: 18 40-11+ | I.Indan |

Released to Imaging: 2/21/2023 1:30:51 PM
Received by OCD: 2/21/2023 1:21:59 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/21/2019 09:10:00 AM Temperature Measuring device used : T-NM-007 Work Order #: 640497 Comments Sample Receipt Checklist 2.4 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6*Custody Seals Signed and dated? Yes #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes Yes

#16 All samples received within hold time? #17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jession WAMER

Date: 10/21/2019

No

N/A

Jessica Kramer

Date: 10/22/2019

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

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

District III

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

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

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

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 188776 |
| | Action Type: |
| | [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|-------------------|
| bhall | None | 2/21/2023 |

Action 188776