

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 29 2015

Form C-141
Revised August 8, 2011

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

| | | | | | |
|--|--|---|--|--|---------------------------------------|
| nAB1521535958 | | OPERATOR | | <input checked="" type="checkbox"/> Initial Report | <input type="checkbox"/> Final Report |
| Name of Company: BOPCO, L.P. <i>2100737</i> | | Contact: Bradley Blevins | | | |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | | Telephone No. 575-887-7329 | | | |
| Facility Name: PLU CVX JV PC 001H (AKA PLU PC 17) | | Facility Type: Exploration and Production | | | |
| Surface Owner: Federal | | Mineral Owner: | | API No. 3001536635 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| P | 17 | 25S | 30E | 350 | | 350 | | Eddy |

Latitude: 32.123950 Longitude: 103.895943

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release: Produced Water | Volume of Release: 39 barrels | Volume Recovered: 1 barrel |
| Source of Release: Fuse weld on 4 inch poly failed | Date and Hour of Occurrence: 7-27-15 @ 10:00am | Date and Hour of Discovery: 7-27-15 @ 10:19am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher via email | |
| By Whom? Bradley Blevins | Date and Hour 7-27-15 @ 2:00pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* | | |

Describe Cause of Problem and Remedial Action Taken.*

A fuse weld on 4 inch poly PW transfer line failed, releasing 39 barrels of produced water to the ground surface. A vacuum truck was called to the location and was able to recover 1 barrel of the fluid.

Describe Area Affected and Cleanup Action Taken.*

The release occurred on the north side of the battery in sandy soil conditions, a vacuum truck was used to recover 1 barrel of PW.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

| | | |
|--------------------------------------|---|----------------------|
| Signature: <i>Bradley Blevins</i> | SIGNED BY <i>Mike Bratcher</i> | |
| Printed Name: Bradley Blevins | Approved by Environmental Specialist: | |
| Title: Assistant Remediation Foreman | Approval Date: 8/3/15 | Expiration Date: N/A |
| E-mail Address: bblevins@basspet.com | Conditions of Approval: | |
| Date: 7-29-15 Phone: 432-214-3704 | Remediation per O.C.D. Rules & Guidelines | |
| SUBMIT REMEDIATION PROPOSAL NO | | |

* Attach Additional Sheets If Necessary

LATER THAN: 9/3/15

ZRP-3180

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

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

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

| | |
|----------------|---------------|
| Incident ID | nAB1521535958 |
| District RP | 2RP-3180 |
| 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 #: 2RP-3180 |
| Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 | |

Location of Release Source

Latitude N 32.123950 Longitude W 103.895943
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|-------------------------------------|
| Site Name: PLU CVX JV PC 001H (AKA PLU PC 17) | Site Type: Production Well Facility |
| Date Release Discovered: 7/27/2015 | API# (if applicable): 30-015-36635 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P | 17 | 25S | 30E | Eddy |

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

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls): | Volume Recovered (bbls): |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls): 39 | Volume Recovered (bbls): 1 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

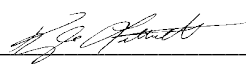
A fuse weld on a 4-inch poly produced water transfer line failed, releasing 39 barrels of produced water to the ground surface on the north side of the battery.

| | |
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| Incident ID | nAB1521535958 |
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| | |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls were released. No watercourse was reached. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to Mike Bratcher (NMOCD) via email on July 27, 2015 at 2:00pm | |

Initial Response

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

| | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: 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: <u>Kyle Littrell</u> | Title: <u>SH&E Supervisor</u> |
| Signature:  | Date: <u>10/11/2019</u> |
| email: <u>Kyle_Littrell@xtoenergy.com</u> | Telephone: <u>432-221-7331</u> |
| <u>OCD Only</u> Received by: _____ Date: _____ | |

| | |
|----------------|---------------|
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| District RP | 2RP-3180 |
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| Application ID | |

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

| | |
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Printed Name: Garrett Green Title: SSHE CoordinatorSignature:  Date: 09/22/2023email: garrett.green@exxonmobil.com Telephone: 575-200-0729**OCD Only**

Received by: _____ Date: _____

| | |
|----------------|---------------|
| Incident ID | nAB1521535958 |
| District RP | 2RP-3180 |
| 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.

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

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

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

Printed Name: Garrett Green Title: SSHE Coordinator

Signature:  Date: 09/22/2023

email: Garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Ashley Maxwell Date: 10/06/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist



September 22, 2023

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request Addendum
PLU CVX JV PC 001H
Incident Numbers nAB1521535958 and nAB1621456328
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* dated October 9, 2019. This addendum provides an update to the depth to groundwater determination activities at the PLU CVX JV PC 001H (Site) in response to the New Mexico Oil Conservation Division (NMOCD) denial of the October 9, 2019, *Closure Request*. In the denial, NMOCD indicated that the depth to groundwater assessment was not sufficient. Based on the additional depth to groundwater determination activities described below, XTO is submitting this *Closure Request Addendum* and requesting closure for Incident Numbers nAB1521535958 and nAB1621456328.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.123950°, -103.895943°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On July 27, 2015, a fuse weld on a four-inch poly produced water transfer line failed, releasing approximately 39 barrels (bbls) of produced water to the ground surface on the north side of the battery. A vacuum truck recovered approximately 1 bbl of produced water. The former operator reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on July 29, 2015. The release was assigned Remediation Permit (RP) Number 2RP-3180 and Incident Number nAB1521535958.

On July 23, 2016, a poly flow line was located too close to the flare, and heat from the flare caused the line to rupture. Approximately 9.5 bbls of produced water were released onto the well pad and surrounding area. The line was repaired and relocated away from the flare. A response crew was dispatched to the location to excavate the release area. The former operator reported the release to the NMOCD on a Form C-141 on July 24, 2016. The release was assigned RP Number 2RP-3813 and Incident Number nAB1621456328.

The releases were included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement was to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with Title 19, Chapter

XTO Energy, Inc.
Closure Request Addendum
Poker Lake Unit CVX JV PC 001H

15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

BACKGROUND

The October 9, 2019, *Closure Request* detailed site characterization according to Table I, Closure Criteria for Soils Impacted by a Release, of 19.15.29 NMAC. Results from the characterization desktop review are presented on page 3 of each Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

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

During June and July 2019, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the two historical produced water releases. Closure was requested on October 9, 2019, based on laboratory analytical results for the excavation and delineation soil samples indicating benzene, BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Additional details regarding the delineation and excavation activities can be referenced in the October 9, 2019, *Closure Request*.

On March 22, 2023, NMOCD denied the *Closure Request* for Incident Numbers nAB1521535958 and nAB1621456328 for following reason:

- *The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.*

In response to the denial, XTO submitted a *Remediation Work Plan (Work Plan)* to the NMOCD on June 29, 2023. The *Work Plan* proposed to install a soil boring within 0.5 miles of the Site to investigate depth to groundwater and confirm the Closure Criteria applied to the Site. The *Work Plan* was approved by the NMOCD on June 30, 2023.

ADDITIONAL DEPTH TO GROUNDWATER DETERMINATION

As outlined in the June 29, 2023 *Work Plan*, XTO proceeded with the installation of a soil boring for determination of groundwater depth and confirmation of the Site Closure Criteria. During August 2023, a borehole, permitted as New Mexico Office of the State Engineer (NMOSE) well C-04758, was advanced to a depth of 110 feet bgs via air rotary drill rig. The borehole was located approximately 400 feet southwest of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling of the borehole. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 110 feet bgs.

XTO Energy, Inc.
Closure Request Addendum
Poker Lake Unit CVX JV PC 001H

The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

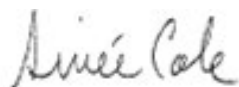
Based on confirmed depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site, the Table I Closure Criteria identified in the original *Closure Request* are applicable and appropriate for protection of groundwater at this Site.

CLOSURE REQUEST

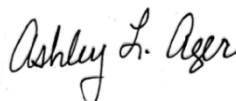
Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from two historical produced water releases. Based on depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site as presented in this addendum and laboratory analytical results for the final excavation and delineation soil samples compliant with the confirmed Site Closure Criteria, as documented in the October 9, 2019, *Closure Request*, XTO respectfully requests no further action for Incident Numbers nAB1521535958 and nAB1621456328. The October 9, 2019, *Closure Request* is included as Appendix B.

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

Sincerely,
Ensolum, LLC



Aimee Cole
Senior Managing Scientist



Ashley Ager, P.G.
Program Director

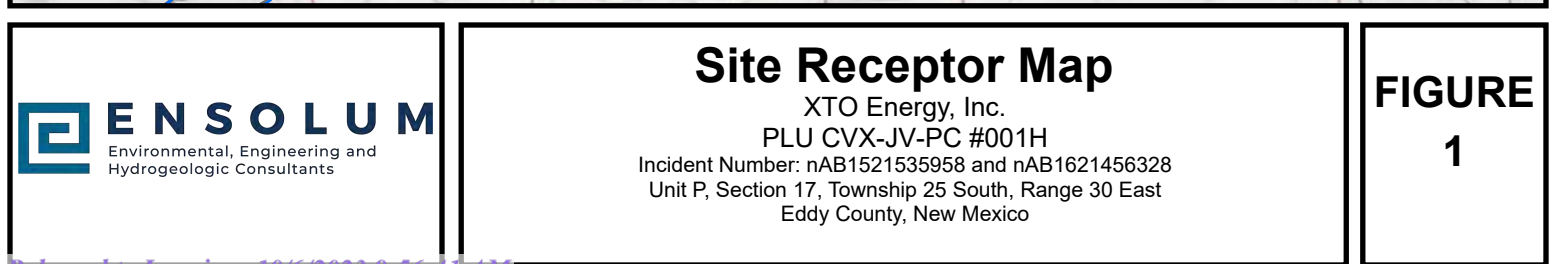
cc: Garrett Green, XTO
Shelby Pennington, XTO
Bureau of Land Management

Appendices:

| | |
|------------|----------------------------------|
| Figure 1 | Site Receptor Map |
| Appendix A | Referenced Well Records |
| Appendix B | October 9, 2019, Closure Request |




FIGURES





APPENDIX A

Referenced Well Records

|  ENSOLUM | | Sample Name: BH01/C-04758 | | Date: 8/08/2023 | | | | |
|--|----------------|---------------------------------|----------|------------------------|-----------------------|----------------|------------------|--|
| | | Site Name: PLU PC 17 BATTERY | | | | | | |
| | | Incident Number: | | | | | | |
| | | Job Number: | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.123284, -103.897084 | | Logged By: M. O'Dell/S. Welvang | | Method: Air Rotary Rig | | | | |
| | | Hole Diameter: 5" | | Total Depth: 110' | | | | |
| Comments: No field screening was conducted. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| | | | | | | 10 | CCHE | 0-10'. Caliche w/sand. Tan to light brown, very fine to fine grained, well graded, subrounded to subangular grains, dry. |
| | | | | | | 20 | SW | 10-20'. Sand. Reddish brown, very fine to fine grained, subrounded to subangular grains, well graded, trace CCHE, dry. |
| | | | | | | 30 | SW | 20-30'. Sand w/CCHE mixture. Very fine to fine grained, CCHE medium to coarse grains, sand reddish brown, tan to light brown CCHE Well graded. |
| | | | | | | 40 | SC | 30-50'. Clayey sand w/ gravel. Brown, very fine to fine grained, gravel small grained, trace CCHE, dry. |
| | | | | | | 50 | | |
| | | | | | | 60 | SP | 50-80'. Sand, brown (trace red), very fine to fine grained, poorly graded, subrounded to subangular, dry. |
| | | | | | | 70 | | |
| | | | | | | 80 | | 80-90'. Sand. Yellowish tan, very fine to fine grained, poorly graded, trace silty, trace orange sand, trace CCHE, dry. |
| | | | | | | 90 | | 90'-110'. Sand. Brownish red, very fine to fine grained, poorly graded, subrounded to subangular, dry. |
| | | | | | | 100 | | |
| | | | | | | 110 | | 110': stopped drilling and set casing to 110'. |
| TD at 110' bgs. | | | | | | | | |

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

BENJAMIN BELILL
ENSOLUM, LLC
3122 NATIONAL PARKS HIGHWAY
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script, reading "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

GARRETT GREEN
XTO ENERGY, INC.
3401 E GREENE ST
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in black ink that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

File No. C-4758

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

| | | |
|---|--|--|
| Purpose: | <input type="checkbox"/> Pollution Control And/Or Recovery | <input type="checkbox"/> Ground Source Heat Pump |
| <input type="checkbox"/> Exploratory Well (Pump test) | <input type="checkbox"/> Construction Site/Public Works Dewatering | <input type="checkbox"/> Other(Describe): |
| <input checked="" type="checkbox"/> Monitoring Well | <input type="checkbox"/> Mine Dewatering | |
| A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive. | | |
| <input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 7/17/2023 | | Requested End Date: TBD |
| Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

1. APPLICANT(S)

| | |
|---|---|
| Name: XTO Energy, Inc | Name: Ensolum, LLC |
| Contact or Agent: check here if Agent <input type="checkbox"/> Garrett Green | Contact or Agent: check here if Agent <input checked="" type="checkbox"/> Benjamin Belill |
| Mailing Address: 3401 E. Greene Street | Mailing Address: 3122 National Parks Highway |
| City: Carlsbad | City: Carlsbad |
| State: New Mexico Zip Code: 88220 | State: New Mexico Zip Code: 88220 |
| Phone: 575-200-0729 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): | Phone: 989-854-0852 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): |
| E-mail (optional): Garrett.Green@ExxonMobil.com | E-mail (optional): bbelill@ensolum.com |

OSE DTI JUL 7 2023 11:30

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

| | | |
|-----------------------------------|---------------------------|---------------------|
| File No.: C-4758 | Tm. No.: 749154 | Receipt No.: 245957 |
| Trans Description (optional): MON | | |
| Sub-Basin: CUB | PCW/LOG Due Date: 7-24-24 | |

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

| | | | |
|---|----------------------------|---|---|
| Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above. | | | |
| <input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> UTM (NAD83) (Meters) <input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second) <input type="checkbox"/> NM West Zone <input type="checkbox"/> Zone 12N <input type="checkbox"/> NM East Zone <input type="checkbox"/> Zone 13N <input type="checkbox"/> NM Central Zone | | | |
| Well Number (if known): | X or Easting or Longitude: | Y or Northing or Latitude: | Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name |
| C-4758 Pod 1 BH01 | -103.896478 | 32.123445 | Unit P, S17, T25S, R30E, Eddy County |
| | | | |
| | | | |
| | | | |
| | | | |
| NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____ | | | |
| Other description relating well to common landmarks, streets, or other: Located on active well pad facility at the the Poker Lake Unit CVX JV RR #010H (32.123445,-103.896478). | | | |
| Well is on land owned by: Federal - Bureau of Land Management | | | |
| Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____ | | | |
| Approximate depth of well (feet): 110 | | Outside diameter of well casing (inches): 2 | |
| Driller Name: Scarborough Drilling | | Driller License Number: WD-1188 | |

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One soil boring to be advanced at the site to assess subsurface soil and regional groundwater depth. Temporary 2-inch inside diameter PVC well screen will be placed in open borehole to determine depth to water at the site. The borehole will be abandoned after 72 hours from the time the borehole is completed. The borehole location is depicted on the attached figure.

OSE 011 JUL 7 2023 11:30

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4758

Trm No.: 749154

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

| | | | |
|---|--|--|--|
| Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable. | Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. | Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. | Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. |
| Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring. | <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located. | Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request. | <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect. |

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Benjamin Belill

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Benjamin Belill Digitally signed by Benjamin Belill
Date: 2023.07.06 10:37:13 -04'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 26th day of July 20 23, for the State Engineer,

DSE 011 JUL 7 2023 AM 11:30

Mike A. Hamman, P.E.

State Engineer

By: K. Parekh
Signature

Print

Kashyap Parekh

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4758

Trn No.: 749154

Page 3 of 3

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

page: 1

**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04758 POD1 must be completed and the Well Log filed on or before 07/23/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

| | |
|-------------------------------------|--------------------------|
| Notice of Intention Rcvd: | Date Rcvd. Corrected: |
| Formal Application Rcvd: 07/07/2023 | Pub. of Notice Ordered: |
| Date Returned - Correction: | Affidavit of Pub. Filed: |

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 24 day of Jul A.D., 2023

Mike A. Hamman, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

page: 3



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

July 10, 2023

XTO Energy Inc.
3401 E. Greene Street
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4758-POD1

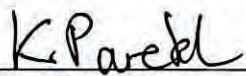
Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <https://www.ose.state.nm.us/Statewide/wdForms.php>.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,



Kashyap Parekh
Water Resources Manager I



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

1900 West Second St.
 Roswell, New Mexico 88201
 Phone: (575) 622-6521
 Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: XTO Energy Inc.
 NMOSE Permit Number: C-4758-POD1

| NMOSE File | Casing diameter (inches) | Well depth (feet bgl) | Approximate static water level (feet bgl) | Latitude | Longitude |
|-------------|--------------------------|-----------------------|---|---------------|-----------------|
| C-4758-POD1 | 8.0 (Soil Boring) | 110 | Unknown | 32° 7' 24.40" | 103° 53' 47.32" |

Specific Plugging Conditions of Approval for Well located in Eddy County, New Mexico.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces

the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. and 4. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of July 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I



2



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email ambg-waterlevels@amt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: TBD 2-6-258-POD

Name of well owner: XTO Energy Inc

Mailing address: 3401 E. Greene Street

County: Eddy

City: Carlsbad

State: New Mexico

Zip code: 88220

Phone number: 575-200-0729

E-mail: Garrett.Green@ExxonMobil.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Scarborough Drilling Inc

New Mexico Well Driller License No.: WD-1188

Expiration Date: 3/31/2024

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 7 min, 24.40 sec
Longitude: 103 deg, 53 min, 47.32 sec, NAD 83

2) Reason(s) for plugging well(s):

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Monitoring well to be plugged when no longer needed. Dry borehole will be plugged within 3 days of completion if encountered

3) Was well used for any type of monitoring program? No If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NA If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: NA feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Temporary SCH 40 PVC
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: NA
☐ a well screen or perforated pipe, state the screened interval(s): NA
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Temporary 2 inch well will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged from 0 to 10 feet bgs with hydrated bentonite. If groundwater is encountered, borehole will be plugged, tremie pipe from the bottom upwards to a slurry of Type I/II neat cement.
- 2) Will well head be cut-off below land surface after plugging? YES

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 287 gallons(8 inch borehole)
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
x mixed on site

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- 7) Grout additives requested, and percent by dry weight relative to cement:

NA

- 8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

NA

VIII. SIGNATURE:

I, Benjamin Belill, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Benjamin Belill

Digitally signed by Benjamin Belill
Date: 2023.07.06 10:36:39 -04'00'

Signature of Applicant

Date

DSE 011 JUL 7 2023 am 11:30

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 10th day of July, 2023

Mike A. Hammon P.E., New Mexico State Engineer

By: K. Parekh
KASHYAP PAREKH
W. R. M. I



WD-08 Well Plugging Plan
Version: July 31, 2019
Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

| | Interval 1 – deepest | Interval 2 | Interval 3 – most shallow |
|---|----------------------|------------|--|
| | | | Note: if the well is non-artesian and breaches only one aquifer, use only this column. |
| Top of proposed interval of grout placement (ft bgl) | NA | NA | 0 |
| Bottom of proposed interval of grout placement (ft bgl) | NA | NA | 110 |
| Theoretical volume of grout required per interval (gallons) | NA | NA | 287 |
| Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement | NA | NA | <6.0 |
| Mixed on-site or batch-mixed and delivered? | NA | NA | onsite |
| Grout additive 1 requested | NA | NA | NA |
| Additive 1 percent by dry weight relative to cement | NA | NA | NA |
| Grout additive 2 requested | NA | NA | NA DSE DIT JUL 7 2023 PM 11:30 |
| Additive 2 percent by dry weight relative to cement | NA | NA | NA |

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

| | Interval 1 – deepest | Interval 2 | Interval 3 – most shallow |
|---|----------------------|------------|--|
| | | | Note: if the well is non-artesian and breaches only one aquifer, use only this column. |
| Top of proposed interval of sealant placement (ft bgl) | NA | NA | 0 |
| Bottom of proposed sealant of grout placement (ft bgl) | NA | NA | 10 |
| Theoretical volume of sealant required per interval (gallons) | NA | NA | 26 |
| Proposed abandonment sealant (manufacturer and trade name) | NA | NA | Bariod Hole Plug |

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**PLU PC 17 BATTERY,
PLU PC 17 SWD 1,
PLU CVX JV RR 006H,
PLU-CVX-JV-PC #001H
SWD Line**

32.123445, -103.896478
Surface Owner: BLM

Legend

- 0.5 Mile Radius
- Proposed Soil Boring
- Incident Sites
- XTO Wells

PLU PC 17 SWD 1

Poker Lake Unit CVX JV RR 010H
Well Pad

PLU-CVX-JV-PC #001H SWD Line

PLU PC 17 BATTERY
Proposed Soil Boring

PLU CVX JV RR 006H

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Google Earth

Image © 2023 Maxar Technologies

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3000 ft



APPENDIX B

October 9, 2019 Closure Request



LT Environmental, Inc.

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

October 9, 2019

Mr. Bradford Billings
New Mexico Oil Conservation Division
1220 South St. Francis Drive, #3
Santa Fe, New Mexico 87505**RE: Closure Request
Poker Lake Unit CVX JV PC 001H (AKA PLU PC 17)
Remediation Permit Numbers 2RP-3180 and 2RP-3813
Eddy 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, soil sampling, and excavation activities at the Poker Lake Unit (PLU) CVX JV PC 001H (AKA PLU PC 17) (Site) in Unit P, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following two separate events that caused the release of produced water at the Site.

The releases are 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 releases are categorized as Tier IV sites in the Compliance Agreement, meaning the releases occurred prior to August 14, 2018, the effective date of 19.15.29 NMAC; however, remediation was ongoing.

RELEASE BACKGROUND

On July 27, 2015, a fuse weld on a four-inch poly produced water transfer line failed, releasing approximately 39 barrels (bbls) of produced water to the ground surface on the north side of the battery. A vacuum truck was used to recover approximately 1 bbl of produced water. The former operator reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on July 29, 2015, and was assigned Remediation Permit (RP) Number 2RP-3180 (Attachment 1).

On July 23, 2016, a poly flow line was located too close to the flare and heat from the flare caused the line to rupture. Approximately 9.5 bbls of produced water were released to the well pad and surrounding soils. The line was repaired and relocated away from the flare. A response crew was





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dispatched to the location to excavate and sample the release area. The former operator reported the release to the NMOCD on a Form C-141 on July 24, 2016, and was assigned RP Number 2RP-3813 (Attachment 1).

Although the releases occurred while the facility was operated by the previous operator, XTO is the current operator and is committed to addressing any releases that remain unresolved. Since both releases occurred on the same well pad, excavation and sampling activities were completed to address and close both releases simultaneously. Based on the site assessment activities and results of the soil sampling events, XTO is requesting no further action for these two release events.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of 19.15.29.12 of the 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 320629103533002, located approximately 5,855 feet southeast of the Site. The water well has a depth to groundwater of 264 feet and a total depth of 280 feet. Ground surface elevation at the water well location is 3,209 feet above mean sea level (AMSL), which is approximately 34 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash located approximately 3,198 feet southwest 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.





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SITE ASSESSMENT, EXCAVATION, AND DELINEATION SOIL SAMPLING ACTIVITIES

During June 2019, LTE personnel inspected the Site to evaluate the release extents based on information provided on the Form C-141s and visual observations. Surficial staining was observed near the former flare location, in the release area associated with the flow line rupture (2RP-3813). No evidence of the historical produced water transfer line release, located north of the battery, was observed (2RP-3180).

Between June 28, and July 3, 2019, LTE personnel returned to the Site to oversee site assessment and excavation activities as indicated by visual observations and field screening results. Potholes were advanced via track-hoe at nine locations within and around the release extents. Potholes PH01 and PH04 through PH09 were advanced around the former flare location to depths ranging from 4 feet to 8 feet bgs to assess for potential soil impacts associated with release 2RP-3813. Potholes PH02 and PH03 were advanced north of the tank battery to a depth of 4 feet bgs to assess for potential soil impacts associated with release 2RP-3180. Delineation soil samples were collected from each pothole PH01 through PH09 at depths ranging from 2 feet to 8 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Based on visual observations and field screening results from potholes PH02 and PH03, no soil excavation was warranted in the release area associated with 2RP-3180. Based on visual observations and field screening results in the release area associated with 2RP-3813, excavation of impacted soil was warranted. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 2. The pothole and delineation soil sample locations are depicted on Figure 2.

On July 3, 2019, LTE personnel was at the Site to oversee excavation of soil in the release area associated with 2RP-3813 as indicated by visual observations, potholing activities, and field screening results. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation from depths ranging from ground surface to 4 feet bgs. Composite soil samples FS01 through FS06 were collected from the floor of the excavation from a depth of 4 feet bgs. The excavation extent and excavation soil sample locations are depicted on Figure 3.

The delineation and excavation 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-





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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. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 3.

The excavation extent measured approximately 2,917 square feet in area. A total of approximately 430 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Lea Land landfill facility located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in all delineation soil samples collected from potholes PH01 through PH09. Laboratory analytical results indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in excavation soil samples SW01 through SW05 and FS01 through FS06, collected from the final excavation extent associated with release 2RP-3813. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Potholes were advanced at nine locations within the two historical release areas to assess for potential soil impacts resulting from the July 27, 2015 and July 23, 2016 produced water releases at the Site.

Impacted soil was excavated from the release area associated with 2RP-3813. Laboratory analytical results for the excavation soil samples collected from the final excavation extent indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Delineation soil sampling was completed in and around the release extent. Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH04 through PH09 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria, and confirmed that the impacted soil had been removed. Based on the excavation and delineation soil sample analytical results, no further remediation was required.

Delineation soil sampling was completed in the release area associated with 2RP-3180. Laboratory analytical results for the delineation soil samples collected from potholes PH02 and PH03 indicated that BTEX, GRO/DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on visual observations, field screening activities in the release area, and





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laboratory analytical results for the delineation soil samples collected from potholes PH02 and PH03, no further remediation was required.

Initial response efforts, natural attenuation, and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for RP Numbers 2RP-3180 and 2RP-3813. XTO will backfill the excavations with material purchased locally and recontour the Site to match pre-existing site conditions. An updated NMOCD Form C-141 for each release is included in 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.

A handwritten signature in blue ink, appearing to read "Bryan Paraspolo".

Bryan Paraspolo
Project Environmental Scientist

A handwritten signature in blue ink, appearing to read "Ashley L. Ager".

Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management
Mike Bratcher, NMOCD

Attachments:

Figure 1 Site Location Map
Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Initial/Final NMOCD Form C-141 (2RP-3180 and 2RP-3813)
Attachment 2 Lithologic / Soil Sample Logs
Attachment 3 Photographic Log
Attachment 4 Laboratory Analytical Reports



FIGURES



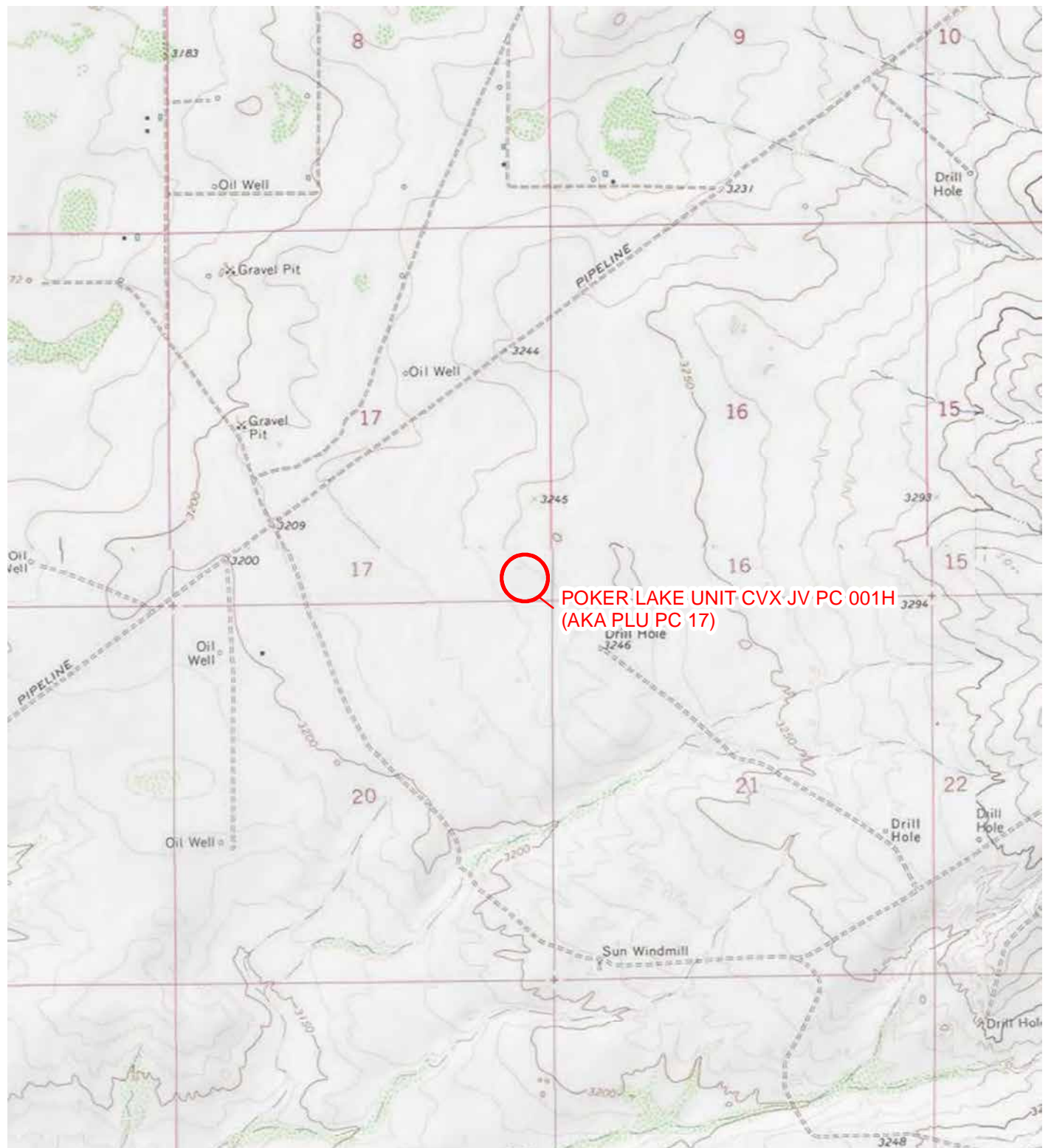
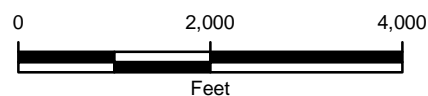


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION



NOTE: REMEDIATION
PERMIT NUMBER
2RP-3180 AND 2RP-3813

FIGURE 1
SITE LOCATION MAP
POKER LAKE UNIT CVX JV PC 001H (AKA PLU PC 17)
UNIT P SEC 17 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



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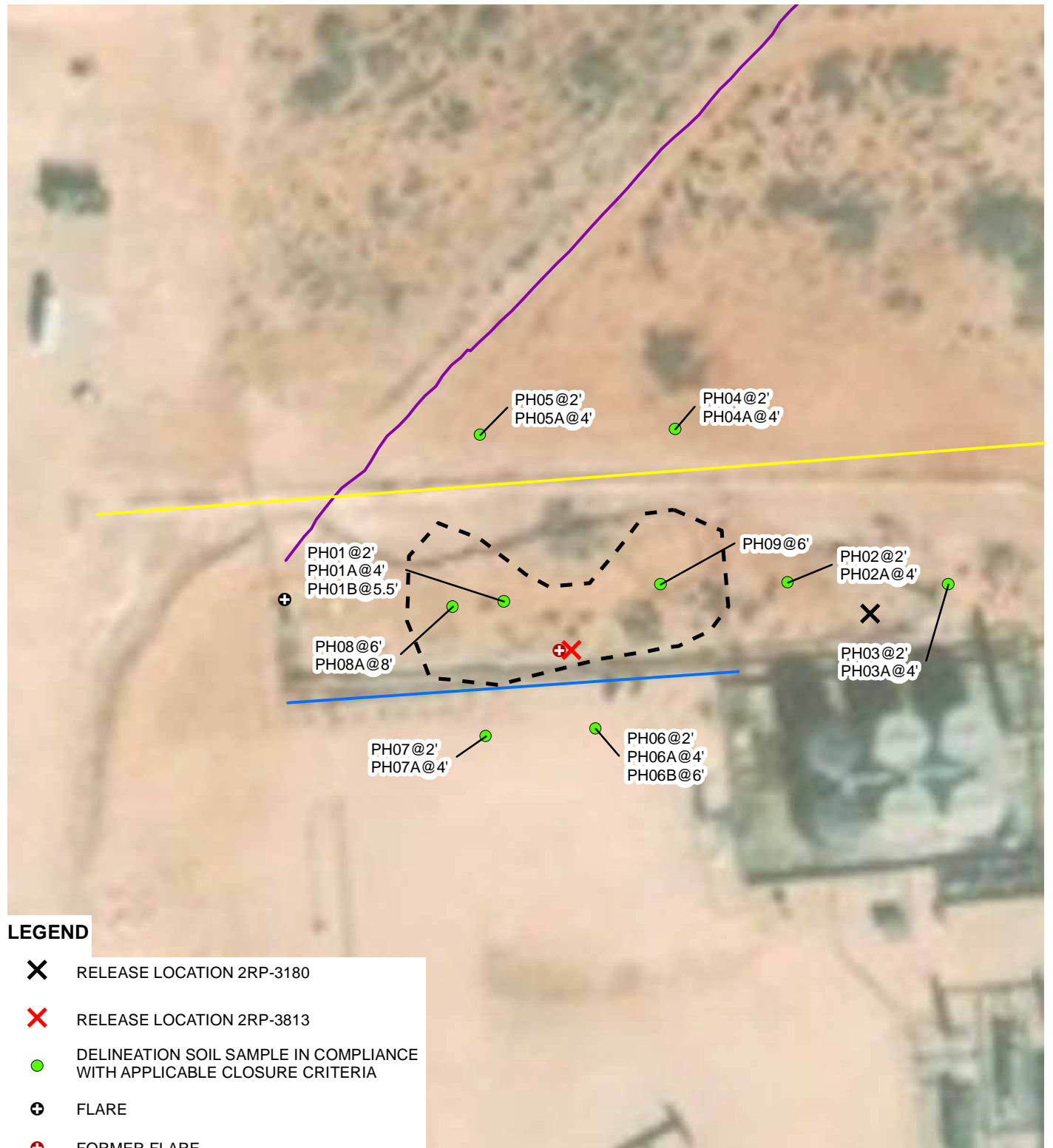


IMAGE COURTESY OF ESRI

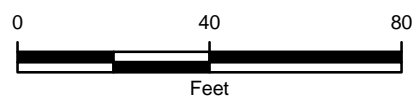
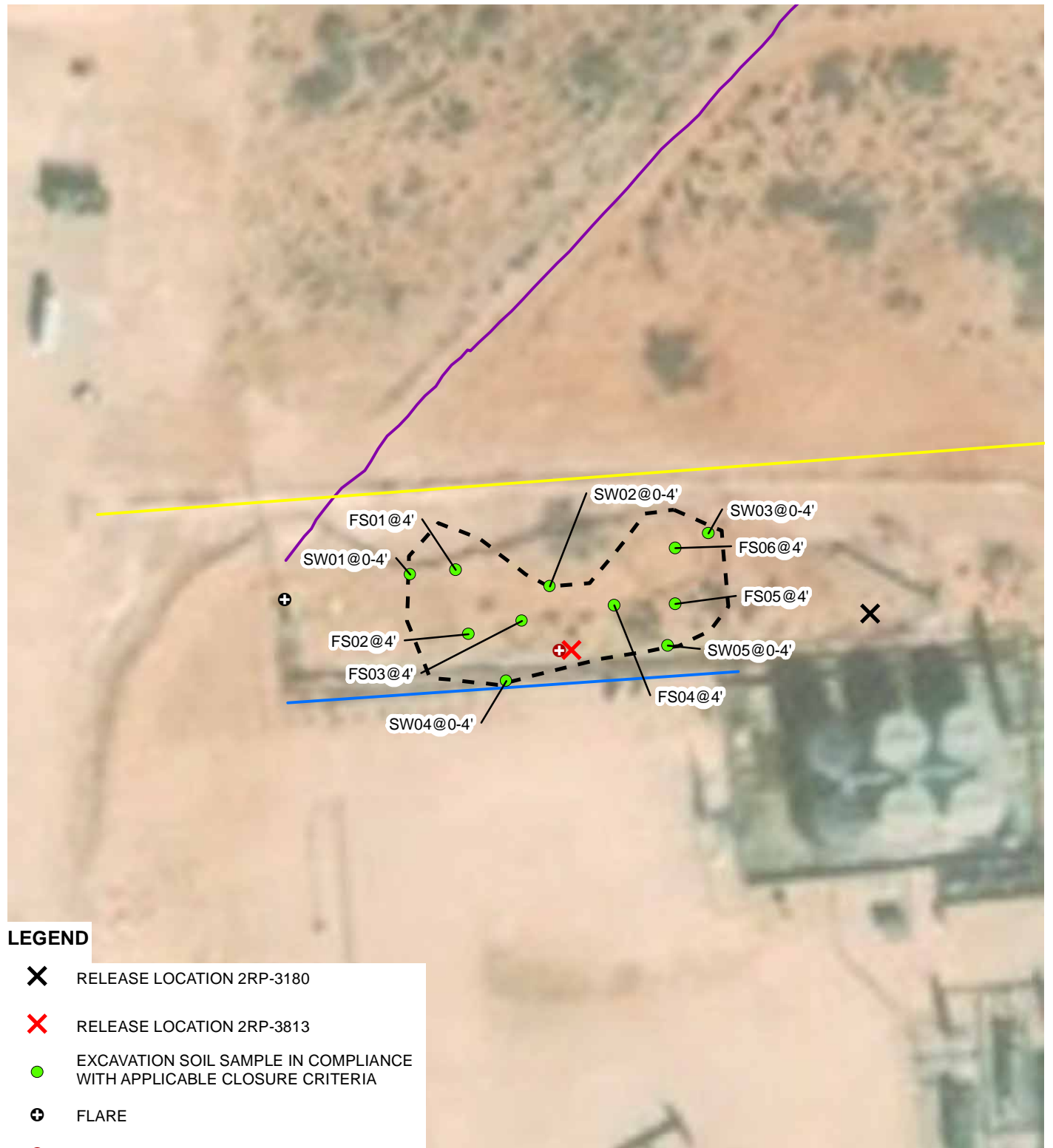


FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
 POKER LAKE UNIT CVX JV PC 001H (AKA PLU PC 17)
 UNIT P SEC 17 T25S R30E
 EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



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**LEGEND**

- X** RELEASE LOCATION 2RP-3180
- X** RELEASE LOCATION 2RP-3813
- EXCAVATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ⊕ FLARE
- ⊕ FORMER FLARE

- GAS LINE
- SUBSURFACE WATER LINE
- WATER LINE

--- EXCAVATION EXTENT

SAMPLE ID@DEPTH BELOW
GROUND SURFACE (FEET)
NOTE: REMEDIATION PERMIT NUMBER
2RP-3180 AND 2RP-3813

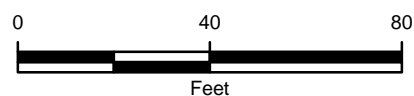


IMAGE COURTESY OF ESRI

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
POKER LAKE UNIT CVX JV PC 001H (AKA PLU PC 17)
UNIT P SEC 17 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES



TABLE 1
SOIL ANALYTICAL RESULTS

POKER LAKE UNIT CVX JV PC 001H (AKA PLU PC 17)
REMEDATION PERMIT NUMBERS 2RP-3180 and 2RP-3813
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|--------------------------------|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|-------------|------------------|
| PH01 | 2 | 06/28/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 1,980 |
| PH01A | 4 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 114 |
| PH01B | 5.5 | 06/28/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 86.5 |
| PH02 | 2 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 71.2 |
| PH02A | 4 | 06/28/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 57.3 |
| PH03 | 2 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 96.8 |
| PH03A | 4 | 06/28/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 90.5 |
| PH04 | 2 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 39.9 |
| PH04A | 4 | 06/28/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 60.1 |
| PH05 | 2 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 82.8 |
| PH05A | 4 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 35.4 |
| PH06 | 2 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 607 |
| PH06A | 4 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 565 |
| PH06B | 6 | 06/28/2019 | <0.00197 | <0.00197 | <0.00197 | <0.00197 | <0.00197 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 78.7 |
| PH07 | 2 | 06/28/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 252 |
| PH07A | 4 | 06/28/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 89.6 |
| PH08 | 6 | 07/03/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 791 |
| PH08A | 8 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 46.3 |
| PH09 | 6 | 07/03/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 113 |
| SW01 | 0-4 | 07/03/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 342 |
| SW02 | 0-4 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 285 |
| SW03 | 0-4 | 07/03/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 226 |
| SW04 | 0-4 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 19.9 |
| SW05 | 0-4 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 122 |
| FS01 | 4 | 07/03/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 2,110 |
| FS02 | 4 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 2,260 |
| FS03 | 4 | 07/03/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 2,450 |
| FS04 | 4 | 07/03/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 1,130 |
| FS05 | 4 | 07/03/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 881 |
| FS06 | 4 | 07/03/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | <15.0 | 2,110 |
| NMOCD Table 1 Closure 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

ATTACHMENT 1: INITIAL/FINAL NMOCD FORM C-141 (2RP-2664 and 2RP-3213)

NM OIL CONSERVATION

ARTESIA DISTRICT

JUL 29 2015

Form C-141
Revised August 8, 2011

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
20 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.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

nAB1521535958 **OPERATOR** ☒ Initial Report ☐ Final Report

| | |
|--|---|
| Name of Company: BOPCO, L.P. <i>2100737</i> | Contact: Bradley Blevins |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: PLU CVX JV PC 001H (AKA PLU PC 17) | Facility Type: Exploration and Production |
| Surface Owner: Federal | Mineral Owner: API No. 3001536635 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| P | 17 | 25S | 30E | 350 | | 350 | | Eddy |

Latitude: 32.123950 Longitude: 103.895943

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release: Produced Water | Volume of Release: 39 barrels | Volume Recovered: 1 barrel |
| Source of Release: Fuse weld on 4 inch poly failed | Date and Hour of Occurrence: 7-27-15 @ 10:00am | Date and Hour of Discovery: 7-27-15 @ 10:19am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher via email | |
| By Whom? Bradley Blevins | Date and Hour 7-27-15 @ 2:00pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* | | |

Describe Cause of Problem and Remedial Action Taken.*

A fuse weld on 4 inch poly PW transfer line failed, releasing 39 barrels of produced water to the ground surface. A vacuum truck was called to the location and was able to recover 1 barrel of the fluid.

Describe Area Affected and Cleanup Action Taken.*

The release occurred on the north side of the battery in sandy soil conditions, a vacuum truck was used to recover 1 barrel of PW.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

OIL CONSERVATION DIVISION

| | | |
|---|---|----------------------|
| Signature: <i>Bradley Blevins</i> | Signed By: <i>Mike Bratcher</i> | |
| Printed Name: Bradley Blevins | Approved by Environmental Specialist: | |
| Title: Assistant Remediation Foreman | Approval Date: 8/3/15 | Expiration Date: N/A |
| E-mail Address: bblevins@basspet.com | Conditions of Approval: | |
| Date: 7-29-15 Phone: 432-214-3704 | Remediation per O.C.D. Rules & Guidelines | |
| * Attach Additional Sheets If Necessary | SUBMIT REMEDIATION PROPOSAL NO. 9/3/15 | |
| | LATER THAN: 9/3/15 | |

ZRP-3180

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

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

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

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3180 |
| 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 #: 2RP-3180 |
| Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 | |

Location of Release Source

Latitude N 32.123950 Longitude W 103.895943
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|-------------------------------------|
| Site Name: PLU CVX JV PC 001H (AKA PLU PC 17) | Site Type: Production Well Facility |
| Date Release Discovered: 7/27/2015 | API# (if applicable): 30-015-36635 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P | 17 | 25S | 30E | Eddy |

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

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls): | Volume Recovered (bbls): |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls): 39 | Volume Recovered (bbls): 1 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

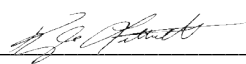
A fuse weld on a 4-inch poly produced water transfer line failed, releasing 39 barrels of produced water to the ground surface on the north side of the battery.

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3180 |
| Facility ID | |
| Application ID | |

| | |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls were released. No watercourse was reached. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to Mike Bratcher (NMOCD) via email on July 27, 2015 at 2:00pm | |

Initial Response

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

| | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: 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: <u>Kyle Littrell</u> | Title: <u>SH&E Supervisor</u> |
| Signature:  | Date: <u>10/11/2019</u> |
| email: <u>Kyle_Littrell@xtoenergy.com</u> | Telephone: <u>432-221-7331</u> |
| <u>OCD Only</u> Received by: _____ Date: _____ | |

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3180 |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

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

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

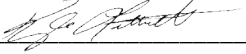
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3180 |
| Facility ID | |
| Application ID | |

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

Printed Name: Kyle Littrell Title: SH&E SupervisorSignature:  Date: 10/11/2019email: Kyle Littrell@xtoenergy.com Telephone: (432)-221-7331**OCD Only**

Received by: _____ Date: _____

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3180 |
| 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.

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

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 10/11/2019

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

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

RECEIVED

Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. **260737** **Contact:** Bradley Blevins

Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 **Telephone No.** 575-887-7329

Facility Name: PLU CVX JV PC 001H (AKA PLU PC 17) **Facility Type:** Exploration and Production

Surface Owner: Federal **Mineral Owner:** **API No.** 30-015-36635

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| P | 17 | 25S | 30E | 350 | | 350 | | Eddy |

Latitude: 32.123950 Longitude: 103.895943

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Produced Water | Volume of Release: 9.5 barrels PW | Volume Recovered: None |
| Source of Release: Poly line failed | Date and Hour of Occurrence 7-23-16 @ 8:00am | Date and Hour of Discovery 7-23-16 @ 8:45am |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* | | |
| Describe Cause of Problem and Remedial Action Taken.* Poly flowline was located to close to the flare, the heat from the flare caused poly line to rupture. Produced water was released to the well pad and surrounding soils. An initial response crew will be dispatched to the location to conduct a scrape and sampling event. | | |
| Describe Area Affected and Cleanup Action Taken.* Poly line was repaired and relocated away from the flare. A vacuum truck was called to the location, by the time the driver arrived to recover the standing fluid had soaked in. | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. | | |

OIL CONSERVATION DIVISION

| | | |
|--------------------------------------|--|----------------------|
| Signature: <i>Bradley Blevins</i> | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Printed Name: Bradley Blevins | Approval Date: 8/11/16 | Expiration Date: N/A |
| Title: Assistant Remediation Foreman | Conditions of Approval: | |
| E-mail Address: bblevins@basspet.com | Remediation per O.C.D. Rules & Guidelines | |
| Date: 7-28-16 Phone: 432-214-3704 | SUBMIT REMEDIATION PROPOSAL NO | |
| | LATER THAN: 4/2/16 | |

* Attach Additional Sheets If Necessary

2RP-3813

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

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

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

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3813 |
| 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 #: 2RP-3813 |
| Contact mailing address: 522 W. Mermod, Suite 704 Carlsbad, NM 88220 | |

Location of Release Source

Latitude N 32.123950 Longitude W -103.895943
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|---|-------------------------------------|
| Site Name: PLU CVX JV PC 001H (AKA PLU PC 17) | Site Type: Production Well Facility |
| Date Release Discovered: 7/23/2016 | API# (if applicable): 30-015-36635 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P | 17 | 25S | 30E | Eddy |

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

Nature and Volume of Release

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

| | | |
|--|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls): | Volume Recovered (bbls): |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls): 9.5 | Volume Recovered (bbls): 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

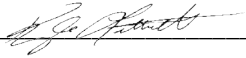
A poly flowline was located too close to the flare and the heat cause the poly line to rupture. Produced water was released to the well pad and surrounding soils.

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3813 |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? N/A |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A | |

Initial Response

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

| | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: 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: <u>Kyle Littrell</u> | Title: <u>SH&E Supervisor</u> |
| Signature:  | Date: <u>10/11/2019</u> |
| email: <u>Kyle_Littrell@xtoenergy.com</u> | Telephone: <u>432-221-7331</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3813 |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

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

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

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

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

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

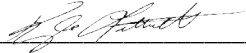
State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3813 |
| Facility ID | |
| Application ID | |

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 10/11/2019

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

OCD Only

Received by: _____ Date: _____

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3813 |
| 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.

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

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 10/11/2019

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

OCD Only


Received by: _____ Date: _____


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

Closure Approved by: _____ Date: _____


Printed Name: _____ Title: _____


ATTACHMENT 2: LITHOLOGIC / SOIL SAMPLE LOGS

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH01 Project Name: PW CUXJRPC OOH | Date: 6/28/19 RP Number: ZRP-3813, ZRP-3180 | | | | | |
|---|----------------|--|--|----------|------------------|--------------|----------------|--|
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: Ben Belill | Method: Track hoe | | | | | |
| Lat/Long: | | Field Screening: PI0, Chlorides | Hole Diameter: N/A | | | | | |
| Comments: | | Total Depth: 5.5' | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | SP | SAND, dry, brown, poorly graded, f-a., some vegetation/roots, no odor. |
| | | | | | 1 | | | |
| D | 1971 | 5.4 | N | PH01 | 2 | 2' | CLICHE | CALICHE, dry, tan-off white, well consolidated, no odor. (12:10) |
| | | | | | 3 | | | |
| D | <124 | 10.6 | N | PH01A | 4 | 4' | CLICHE | SNA (Same As Above) (12:15) |
| | | | | | 5 | | | |
| D | <124 | 2.6 | N | PH01B | 5.5 | 5.5' | CLICHE | SNA (12:20) |
| | | | | | 6 | | | ↑ EOP @ 5.5' |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH02 Project Name: PLU CVXTJ PC 001# | Date: 6/28/19 RP Number: 2RP-3813, 2RP-3180 | | | | | |
|---|----------------|---|--|----------|------------------|--------------|----------------|---|
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BB Hole Diameter: NA | Method: Track hoe Total Depth: 4' | | | | | |
| Lat/Long: | | Field Screening: NO, Chlorides | | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | SP | SAND, dry, brown, poorly sorted, A-m., some vegetation/roots, no odor |
| | | | | | 1 | | | |
| D | <112 | 0.7 | N | PH02 | 2 | 2' | CLCHE | CALICHE, dry, tan-rlt wht, well consolidation, no odor. (12:30) |
| | | | | | 3 | | | |
| D | <112 | 2.3 | N | PH02A | 4 | 4' | CLCHE | SAT (Same As Above) (12:45) |
| | | | | | | | | ↑ EOP @ 4' |
| | | | | | 5 | | | |
| | | | | | 6 | | | |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

Released to Imaging: 10/6/2023 9:56:41 AM

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH04 | Date: 6/28/19 | | | | | |
|---|----------------|---|---|----------|------------------|--------------|----------------|---|
| | | Project Name: PLUCUXUPC 0014 | RP Number: 2RP-3813, 2RP-3180 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BB | Method: Track Log | | | | | |
| Lat/Long: | | Field Screening: PID, Chlorides | Hole Diameter: N/A | | | | | |
| | | Total Depth: 4' | | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | SP | SAND, dry, brown, poorly sorted, f-m, some vegetation/roots, no odor. |
| | | | | | 1 | | CLCIE | CLCIE, dry, tan-off wht, well consolidated, no odor. |
| D | <124 | 1.4 | N | PH04 | 2 | 2' | CLCIE | SAT (Same As Above) (13:40) |
| | | | | | 3 | | | |
| D | <124 | 0.9 | N | PH04A | 4 | 4' | CLCIE | SAT (Same As Above) (13:50) |
| | | | | | 5 | | | EOPE4' |
| | | | | | 6 | | | |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

|  | | LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH05 Date: 6/28/19 | | | | |
|--|----------------|--|----------|---|------------------|--------------|----------------|---|
| Project Name: PLU CUXJUPC001H | | RP Number: 2AP-38B, 2AP-3180 | | Logged By: BB | | | | |
| Method: fracture | | Total Depth: 4' | | Hole Diameter: N/A | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Lat/Long: | | Field Screening: PI0, chlorides | | Comments: | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | SP | SAND, dry, brown, poorly graded, f.-m., some vegetation/roots, no odor. |
| | | | | | 1 | | | |
| D | <124 | 2.1 | N | PH05 | 2 | 2' | CLCHE | CALICHE, dry, tan-off wht, well consolidated, no odor. (M100) |
| | | | | | 3 | | | |
| D | <124 | 3.2 | N | PH05A | 4 | 4' | CLCHE | SAA (Same As Above) (14:10) |
| | | | | | 5 | | | ↑ EOP @ 4' |
| | | | | | 6 | | | |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |



LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation


| | |
|---|---------------------------|
| Identifier: PH06 | Date: 6/28/19 |
| Project Name: Coral Canyon Fed H | RP Number: 282537 |
| PLU CLKJV PC 001H | 2 RP-3813, 2 RP-3180 |
| Logged By: BEN BELILL | Method: Track hole |
| Hole Diameter: N/A | Total Depth: 6' |




LITHOLOGIC / SOIL SAMPLING LOG




Lat/Long: Field Screening: CHLORIDES, TPH, BTEX, GRO, DRO, and MRO.

Comment All Chloride test include a 60% error factor.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|---------------------|---|
| | | | | | 0 | | CLICHE W/Sand (Fnl) | CALICHE w/sand, dry, lt brn, poorly consolidated, no odor, A.N. |
| | | | | | 1 | | | |
| D | 531 | 0.7 | N | PH06 | 2 | 2' | CLICHE | CALICHE, dry, tan-off whr, well consolidated, no odor. (14:45) |
| | | | | | 3 | | | |
| D | 742 | 4.5 | N | PH06A | 4 | 4' | CLICHE | SAT (Same As Above) (14:50) |
| | | | | | 5 | | | |
| D | <124 | 3.2 | N | PH06B | 6 | 6' | CLICHE | SAT (15:00) |
| | | | | | 7 | | | EOPE 6' |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH07 Date: 6/28/19 | | | | | | |
|---|----------------|--|----------|----------|------------------|--------------|----------------------|--|
| Project Name: Coral Canyon Rd 9LW CVK JP PC 001H | | HP Number: 2RP-3813, 2RP-3180 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BEN BELILL Method: Track hole | | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, TPH, BTEX, GRO, DRO, and MRO. Hole Diameter: N/A Total Depth: 4' | | | | | | |
| Comment: All Chloride test include a 60% error factor. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | CLICHE w/ Sand fill. | CALICHE. w/ sand, dry, lt brn, poorly consolidated, no odor, fill. |
| | | | | | 1 | | SP | SAND, dry, brown-red, poorly graded, f.-m., no odor. |
| D | 243 | 0.8 | N | PH07 | 2 | 2' | CLICHE | CALICHE, dry, tan-off wht, well consolidated, no odor. (15:10) |
| | | | | | 3 | | | |
| D | <124 | 6.4 | N | PH07A | 4 | 4' | CLICHE | SAA (Same as Above) (15:15) |
| | | | | | 5 | | | ↑ EOP @ 4' |
| | | | | | 6 | | | |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH08 | Date: 7/3/19 | | | | | |
|---|----------------|-----------------------------------|----------------------------------|----------|------------------|--------------|----------------|--|
| | | Project Name: PLU CUXJUPC 001H | RP Number: ZRP-3813, ZRP-3180 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BB | Method: EXCAVATOR | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID. | Hole Diameter: NA | | | | | |
| | | | Total Depth: 8' | | | | | |
| Comment All Chloride test include a 60% error factor. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | | Open Excavation  |
| | | | | | 1 | | | |
| | | | | | 2 | | | |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 5 | | | CLICHE, dry, tan - off wht, well consolidated, fine crystalline, no odor. |
| D | 1081 | 1.2 | N | PH08 | 6 | 6' | CLICHE | (10:40) |
| | | | | | 7 | | | |
| D | <124 | 0.9 | N | PH08A | 8 | 8' | CLICHE | SHA (Same As Above) (10:50) |
| | | | | | 9 | | |  EOP @ 8' |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: PH09 | Date: 7/3/19 | | | | | |
|---|----------------|-------------------------------------|----------------------------------|----------|------------------|--------------|----------------|--|
| | | Project Name: PLU CVX JV PC 001H | RP Number: ZRP-3813, ZRP-3180 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BB | Method: EXCAVATOR | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID. | Hole Diameter: N/A | | | | | |
| | | | Total Depth: 6' | | | | | |
| Comment All Chloride test include a 60% error factor. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 0 | | | Open Excavation  |
| | | | | | 1 | | | |
| | | | | | 2 | | | |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 5 | | | CALICHE, dry, tan-off wht, well consolidated, fine crystalline, no odor, |
| D | LO | <124 | N | PH09 | 6 | 6' | CLICHE | (11:00)  EO @ 6' |
| | | | | | 7 | | | |
| | | | | | 8 | | | |
| | | | | | 9 | | | |
| | | | | | 10 | | | |
| | | | | | 11 | | | |
| | | | | | 12 | | | |

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: (2RP-3813) View of release area prior to excavation, facing west.



Photograph 2: (2RP-3813) View of open excavation, facing west.



Photograph 3: (2RP-3180) View of release/assessment area, facing west.



Photograph 4: (2RP-3180) View of release area, facing southwest.

PLU CVX JV PC 001H (AKA PC 17 FED 1H)
Eddy County, New Mexico
Photographs Taken: June 28, July 1 - 3, 2019

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Analytical Report 629707

**for
LT Environmental, Inc.**

Project Manager: Ashley Ager

PLU CVX JV PC 001H

2RP-3813, 2RP-3180

11-JUL-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

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



11-JUL-19

Project Manager: **Ashley Ager**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **629707**

PLU CVX JV PC 001H

Project Address: Delaware Basin

Ashley Ager:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 629707. 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. 629707 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,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

**Sample Cross Reference 629707****LT Environmental, Inc., Arvada, CO**

PLU CVX JV PC 001H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| PH01 | S | 06-28-19 12:10 | 2 ft | 629707-001 |
| PH01A | S | 06-28-19 12:15 | 4 ft | 629707-002 |
| PH01B | S | 06-28-19 12:20 | 5.5 ft | 629707-003 |
| PH02 | S | 06-28-19 12:30 | 2 ft | 629707-004 |
| PH02A | S | 06-28-19 12:45 | 4 ft | 629707-005 |
| PH03 | S | 06-28-19 13:00 | 2 ft | 629707-006 |
| PH03A | S | 06-28-19 13:20 | 4 ft | 629707-007 |
| PH04 | S | 06-28-19 13:40 | 2 ft | 629707-008 |
| PH04A | S | 06-28-19 13:50 | 4 ft | 629707-009 |
| PH05 | S | 06-28-19 14:00 | 2 ft | 629707-010 |
| PH05A | S | 06-28-19 14:10 | 4 ft | 629707-011 |
| PH07 | S | 06-28-19 15:10 | 4 ft | 629707-012 |
| PH07A | S | 06-28-19 15:15 | 4 ft | 629707-013 |

**CASE NARRATIVE***Client Name: LT Environmental, Inc.**Project Name: PLU CVX JV PC 001H*

Project ID: 2RP-3813, 2RP-3180
Work Order Number(s): 629707

Report Date: 11-JUL-19
Date Received: 07/02/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094579 Chloride by EPA 300

Lab Sample ID 629707-011 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: 629707-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013.

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

Batch: LBA-3094957 BTEX by EPA 8021B

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



Certificate of Analysis Summary 629707

LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 2RP-3813, 2RP-3180

Contact: Ashley Ager

Project Location: Delaware Basin

Date Received in Lab: Tue Jul-02-19 08:05 am

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 629707-001 | 629707-002 | 629707-003 | 629707-004 | 629707-005 | 629707-006 |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | PH01 | PH01A | PH01B | PH02 | PH02A | PH03 |
| | <i>Depth:</i> | 2- ft | 4- ft | 5.5- ft | 2- ft | 4- ft | 2- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Jun-28-19 12:10 | Jun-28-19 12:15 | Jun-28-19 12:20 | Jun-28-19 12:30 | Jun-28-19 12:45 | Jun-28-19 13:00 |
| BTEX by EPA 8021B SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 |
| | <i>Analyzed:</i> | Jul-09-19 06:19 | Jul-09-19 06:41 | Jul-09-19 07:03 | Jul-09-19 07:25 | Jul-09-19 07:47 | Jul-09-19 08:09 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| Toluene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| Ethylbenzene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| m,p-Xylenes | | <0.00402 0.00402 | <0.00399 0.00399 | <0.00398 0.00398 | <0.00401 0.00401 | <0.00402 0.00402 | <0.00400 0.00400 |
| o-Xylene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| Total Xylenes | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| Total BTEX | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 |
| Chloride by EPA 300 SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 |
| | <i>Analyzed:</i> | Jul-05-19 15:15 | Jul-05-19 14:53 | Jul-05-19 15:22 | Jul-05-19 15:30 | Jul-05-19 15:37 | Jul-05-19 16:04 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 1980 24.8 | 114 5.00 | 86.5 5.05 | 71.2 4.99 | 57.3 5.01 | 96.8 5.00 |
| TPH by SW8015 Mod SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 |
| | <i>Analyzed:</i> | Jul-05-19 11:00 | Jul-05-19 12:14 | Jul-05-19 12:38 | Jul-05-19 13:02 | Jul-05-19 13:27 | Jul-05-19 13:51 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total GRO-DRO | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |

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

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

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 629707



LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 2RP-3813, 2RP-3180

Contact: Ashley Ager

Project Location: Delaware Basin

Date Received in Lab: Tue Jul-02-19 08:05 am

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 629707-007 | 629707-008 | 629707-009 | 629707-010 | 629707-011 | 629707-012 |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | PH03A | PH04 | PH04A | PH05 | PH05A | PH07 |
| | <i>Depth:</i> | 4- ft | 2- ft | 4- ft | 2- ft | 4- ft | 4- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Jun-28-19 13:20 | Jun-28-19 13:40 | Jun-28-19 13:50 | Jun-28-19 14:00 | Jun-28-19 14:10 | Jun-28-19 15:10 |
| BTEX by EPA 8021B SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 | Jul-08-19 15:00 |
| | <i>Analyzed:</i> | Jul-09-19 08:31 | Jul-09-19 08:53 | Jul-09-19 09:15 | Jul-09-19 09:37 | Jul-09-19 11:13 | Jul-09-19 11:35 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| Toluene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| Ethylbenzene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| m,p-Xylenes | | <0.00398 0.00398 | <0.00400 0.00400 | <0.00402 0.00402 | <0.00399 0.00399 | <0.00401 0.00401 | <0.00402 0.00402 |
| o-Xylene | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| Total Xylenes | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| Total BTEX | | <0.00199 0.00199 | <0.00200 0.00200 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00201 0.00201 |
| Chloride by EPA 300 SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 | Jul-03-19 16:00 |
| | <i>Analyzed:</i> | Jul-05-19 16:12 | Jul-05-19 16:26 | Jul-05-19 16:34 | Jul-05-19 16:41 | Jul-05-19 16:48 | Jul-05-19 17:10 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 90.5 5.02 | 39.9 5.05 | 60.1 4.98 | 82.8 5.00 | 35.4 5.03 | 252 4.98 |
| TPH by SW8015 Mod SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 | Jul-05-19 08:00 |
| | <i>Analyzed:</i> | Jul-05-19 14:15 | Jul-05-19 14:40 | Jul-05-19 15:04 | Jul-05-19 15:28 | Jul-05-19 16:17 | Jul-05-19 16:42 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 |
| Diesel Range Organics (DRO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 |
| Motor Oil Range Hydrocarbons (MRO) | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 |
| Total TPH | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 |
| Total GRO-DRO | | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Version: 1.9%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 629707



LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 2RP-3813, 2RP-3180

Contact: Ashley Ager

Project Location: Delaware Basin

Date Received in Lab: Tue Jul-02-19 08:05 am

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

| | | | | | | | |
|--|-------------------|------------------|--|--|--|--|--|
| Analysis Requested | Lab Id: | 629707-013 | | | | | |
| | Field Id: | PH07A | | | | | |
| | Depth: | 4- ft | | | | | |
| | Matrix: | SOIL | | | | | |
| | Sampled: | Jun-28-19 15:15 | | | | | |
| BTEX by EPA 8021B SUB: T104704400-18-16 | Extracted: | Jul-08-19 15:00 | | | | | |
| | Analyzed: | Jul-09-19 11:57 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Benzene | | <0.00200 0.00200 | | | | | |
| Toluene | | <0.00200 0.00200 | | | | | |
| Ethylbenzene | | <0.00200 0.00200 | | | | | |
| m,p-Xylenes | | <0.00399 0.00399 | | | | | |
| o-Xylene | | <0.00200 0.00200 | | | | | |
| Total Xylenes | | <0.00200 0.00200 | | | | | |
| Total BTEX | | <0.00200 0.00200 | | | | | |
| Chloride by EPA 300 SUB: T104704400-18-16 | Extracted: | Jul-03-19 16:00 | | | | | |
| | Analyzed: | Jul-05-19 17:17 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Chloride | | 89.6 4.95 | | | | | |
| TPH by SW8015 Mod SUB: T104704400-18-16 | Extracted: | Jul-05-19 08:00 | | | | | |
| | Analyzed: | Jul-05-19 17:07 | | | | | |
| | Units/RL: | mg/kg RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | | | | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | | | | | |
| Total TPH | | <15.0 15.0 | | | | | |
| Total GRO-DRO | | <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.

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Version: 1.0%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01**
Lab Sample Id: 629707-001

Matrix: Soil
Date Collected: 06.28.19 12.10

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1980 | 24.8 | mg/kg | 07.05.19 15.15 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 11.00 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 11.00 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 11.00 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 11.00 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 11.00 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 07.05.19 11.00 | |
| o-Terphenyl | 84-15-1 | 85 | % | 70-135 | 07.05.19 11.00 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01**
Lab Sample Id: 629707-001

Matrix: Soil
Date Collected: 06.28.19 12.10

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Prep Method: SW5030B

% Moisture:

Date Prep: 07.08.19 15.00

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.09.19 06.19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.09.19 06.19 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.09.19 06.19 | | |
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 07.09.19 06.19 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01A**
Lab Sample Id: 629707-002

Matrix: Soil
Date Collected: 06.28.19 12.15

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 114 | 5.00 | mg/kg | 07.05.19 14.53 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 12.14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 12.14 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 12.14 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 12.14 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 12.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 07.05.19 12.14 | |
| o-Terphenyl | 84-15-1 | 108 | % | 70-135 | 07.05.19 12.14 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01A**
Lab Sample Id: 629707-002

Matrix: Soil
Date Collected: 06.28.19 12.15

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.09.19 06.41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 06.41 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.09.19 06.41 | | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 07.09.19 06.41 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01B**
Lab Sample Id: 629707-003

Matrix: Soil
Date Collected: 06.28.19 12.20

Date Received: 07.02.19 08.05
Sample Depth: 5.5 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 86.5 | 5.05 | mg/kg | 07.05.19 15.22 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 12.38 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 12.38 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 12.38 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 12.38 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 12.38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 07.05.19 12.38 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 07.05.19 12.38 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH01B**
Lab Sample Id: 629707-003

Matrix: Soil
Date Collected: 06.28.19 12.20

Date Received: 07.02.19 08.05
Sample Depth: 5.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Prep Method: SW5030B

% Moisture:

Date Prep: 07.08.19 15.00

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.09.19 07.03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.09.19 07.03 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 07.09.19 07.03 | | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 07.09.19 07.03 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH02**
Lab Sample Id: 629707-004

Matrix: Soil
Date Collected: 06.28.19 12.30

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 71.2 | 4.99 | mg/kg | 07.05.19 15.30 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 13.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 13.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 13.02 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 13.02 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 13.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-135 | 07.05.19 13.02 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 07.05.19 13.02 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH02**
Lab Sample Id: 629707-004

Matrix: Soil
Date Collected: 06.28.19 12.30

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.09.19 07.25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 07.25 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 07.09.19 07.25 | | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.09.19 07.25 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH02A**
Lab Sample Id: 629707-005

Matrix: Soil
Date Collected: 06.28.19 12.45

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 57.3 | 5.01 | mg/kg | 07.05.19 15.37 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 13.27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 13.27 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 13.27 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 13.27 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 13.27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 07.05.19 13.27 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 07.05.19 13.27 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH02A**
Lab Sample Id: 629707-005

Matrix: Soil
Date Collected: 06.28.19 12.45

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.09.19 07.47 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.09.19 07.47 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 07.09.19 07.47 | | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 07.09.19 07.47 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH03**
Lab Sample Id: 629707-006

Matrix: Soil
Date Collected: 06.28.19 13.00

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 96.8 | 5.00 | mg/kg | 07.05.19 16.04 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 13.51 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 13.51 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 13.51 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 13.51 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 13.51 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 07.05.19 13.51 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-135 | 07.05.19 13.51 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH03**
Lab Sample Id: 629707-006

Matrix: Soil
Date Collected: 06.28.19 13.00

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.09.19 08.09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.09 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 07.09.19 08.09 | | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 07.09.19 08.09 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH03A**
Lab Sample Id: 629707-007

Matrix: Soil
Date Collected: 06.28.19 13.20

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 90.5 | 5.02 | mg/kg | 07.05.19 16.12 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 07.05.19 14.15 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 07.05.19 14.15 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 07.05.19 14.15 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 07.05.19 14.15 | U | 1 |
| Total GRO-DRO | PHC628 | <14.9 | 14.9 | mg/kg | 07.05.19 14.15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-135 | 07.05.19 14.15 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 07.05.19 14.15 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH03A**
Lab Sample Id: 629707-007

Matrix: Soil
Date Collected: 06.28.19 13.20

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Prep Method: SW5030B

% Moisture:

Date Prep: 07.08.19 15.00

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.09.19 08.31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.09.19 08.31 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.09.19 08.31 | | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 07.09.19 08.31 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH04**
Lab Sample Id: 629707-008

Matrix: Soil
Date Collected: 06.28.19 13.40

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 39.9 | 5.05 | mg/kg | 07.05.19 16.26 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 14.40 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 14.40 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 14.40 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 14.40 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 14.40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-135 | 07.05.19 14.40 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 07.05.19 14.40 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH04**
Lab Sample Id: 629707-008

Matrix: Soil
Date Collected: 06.28.19 13.40

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.09.19 08.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 08.53 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 07.09.19 08.53 | | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 07.09.19 08.53 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH04A**
Lab Sample Id: 629707-009

Matrix: Soil
Date Collected: 06.28.19 13.50

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 60.1 | 4.98 | mg/kg | 07.05.19 16.34 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 15.04 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 15.04 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 15.04 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 15.04 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 15.04 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 07.05.19 15.04 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-135 | 07.05.19 15.04 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH04A**
Lab Sample Id: 629707-009

Matrix: Soil
Date Collected: 06.28.19 13.50

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Prep Method: SW5030B

% Moisture:

Date Prep: 07.08.19 15.00

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.09.19 09.15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.09.19 09.15 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.09.19 09.15 | | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 07.09.19 09.15 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH05**
Lab Sample Id: 629707-010

Matrix: Soil
Date Collected: 06.28.19 14.00

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 82.8 | 5.00 | mg/kg | 07.05.19 16.41 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 15.28 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 15.28 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 15.28 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 15.28 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 15.28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 07.05.19 15.28 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 07.05.19 15.28 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH05**
Lab Sample Id: 629707-010

Matrix: Soil
Date Collected: 06.28.19 14.00

Date Received: 07.02.19 08.05
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.09.19 09.37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 09.37 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 07.09.19 09.37 | | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 07.09.19 09.37 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH05A**
Lab Sample Id: 629707-011

Matrix: Soil
Date Collected: 06.28.19 14.10

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 35.4 | 5.03 | mg/kg | 07.05.19 16.48 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 16.17 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 16.17 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 16.17 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 16.17 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 16.17 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 07.05.19 16.17 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 07.05.19 16.17 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH05A**
Lab Sample Id: 629707-011

Matrix: Soil
Date Collected: 06.28.19 14.10

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.09.19 11.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.13 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 07.09.19 11.13 | | |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 07.09.19 11.13 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH07**
Lab Sample Id: 629707-012

Matrix: Soil
Date Collected: 06.28.19 15.10

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 252 | 4.98 | mg/kg | 07.05.19 17.10 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 07.05.19 16.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 07.05.19 16.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 07.05.19 16.42 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 07.05.19 16.42 | U | 1 |
| Total GRO-DRO | PHC628 | <14.9 | 14.9 | mg/kg | 07.05.19 16.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 07.05.19 16.42 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 07.05.19 16.42 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH07**
Lab Sample Id: 629707-012

Matrix: Soil
Date Collected: 06.28.19 15.10

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Prep Method: SW5030B

% Moisture:

Date Prep: 07.08.19 15.00

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.09.19 11.35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.09.19 11.35 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 07.09.19 11.35 | | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 07.09.19 11.35 | | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH07A**
Lab Sample Id: 629707-013

Matrix: Soil
Date Collected: 06.28.19 15.15

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094579

Date Prep: 07.03.19 16.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 89.6 | 4.95 | mg/kg | 07.05.19 17.17 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094602

Date Prep: 07.05.19 08.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.05.19 17.07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.05.19 17.07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.05.19 17.07 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.05.19 17.07 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.05.19 17.07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 103 | % | 70-135 | 07.05.19 17.07 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 07.05.19 17.07 | |



Certificate of Analytical Results 629707

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH07A**
Lab Sample Id: 629707-013

Matrix: Soil
Date Collected: 06.28.19 15.15

Date Received: 07.02.19 08.05
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: AMB

Seq Number: 3094957

Date Prep: 07.08.19 15.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.09.19 11.57 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.09.19 11.57 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 105 | % | 70-130 | 07.09.19 11.57 | | |
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 07.09.19 11.57 | | |



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
PLU CVX JV PC 001H

Analytical Method: Chloride by EPA 300

Seq Number: 3094579

MB Sample Id: 7681373-1-BLK

Matrix: Solid

LCS Sample Id: 7681373-1-BKS

Prep Method: E300P

Date Prep: 07.03.19

LCSD Sample Id: 7681373-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <5.00 | 250 | 273 | 109 | 273 | 109 | 90-110 | 0 | 20 | mg/kg | 07.05.19 14:39 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3094579

Parent Sample Id: 629707-002

Matrix: Soil

MS Sample Id: 629707-002 S

Prep Method: E300P

Date Prep: 07.03.19

MSD Sample Id: 629707-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 114 | 250 | 426 | 125 | 426 | 125 | 90-110 | 0 | 20 | mg/kg | 07.05.19 15:01 | X |

Analytical Method: Chloride by EPA 300

Seq Number: 3094579

Parent Sample Id: 629707-011

Matrix: Soil

MS Sample Id: 629707-011 S

Prep Method: E300P

Date Prep: 07.03.19

MSD Sample Id: 629707-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 35.4 | 252 | 339 | 120 | 338 | 120 | 90-110 | 0 | 20 | mg/kg | 07.05.19 16:55 | X |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3094602

MB Sample Id: 7681476-1-BLK

Matrix: Solid

LCS Sample Id: 7681476-1-BKS

Prep Method: TX1005P

Date Prep: 07.05.19

LCSD Sample Id: 7681476-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 962 | 96 | 1000 | 100 | 70-135 | 4 | 20 | mg/kg | 07.05.19 10:09 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1060 | 106 | 1090 | 109 | 70-135 | 3 | 20 | mg/kg | 07.05.19 10:09 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 106 | | 75 | | 80 | | 70-135 | % | 07.05.19 10:09 |
| o-Terphenyl | 103 | | 77 | | 88 | | 70-135 | % | 07.05.19 10:09 |

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

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

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

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



LT Environmental, Inc.

PLU CVX JV PC 001H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3094602

Parent Sample Id: 629707-001

Matrix: Soil

MS Sample Id: 629707-001 S

Prep Method: TX1005P

Date Prep: 07.05.19

MSD Sample Id: 629707-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 9.05 | 999 | 1160 | 115 | 1210 | 120 | 70-135 | 4 | 20 | mg/kg | 07.05.19 11:25 | |
| Diesel Range Organics (DRO) | 8.81 | 999 | 1230 | 122 | 1280 | 127 | 70-135 | 4 | 20 | mg/kg | 07.05.19 11:25 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 100 | | 105 | | 70-135 | % | 07.05.19 11:25 |
| o-Terphenyl | 108 | | 111 | | 70-135 | % | 07.05.19 11:25 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094957

MB Sample Id: 7681583-1-BLK

Matrix: Solid

LCS Sample Id: 7681583-1-BKS

Prep Method: SW5030B

Date Prep: 07.08.19

LCSD Sample Id: 7681583-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0994 | 0.0843 | 85 | 0.0920 | 92 | 70-130 | 9 | 35 | mg/kg | 07.09.19 04:01 | |
| Toluene | <0.00199 | 0.0994 | 0.0821 | 83 | 0.0861 | 86 | 70-130 | 5 | 35 | mg/kg | 07.09.19 04:01 | |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0901 | 91 | 0.0953 | 95 | 70-130 | 6 | 35 | mg/kg | 07.09.19 04:01 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.180 | 90 | 0.190 | 95 | 70-130 | 5 | 35 | mg/kg | 07.09.19 04:01 | |
| o-Xylene | <0.00199 | 0.0994 | 0.0856 | 86 | 0.0913 | 91 | 70-130 | 6 | 35 | mg/kg | 07.09.19 04:01 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 93 | | 93 | | 96 | | 70-130 | % | 07.09.19 04:01 |
| 4-Bromofluorobenzene | 100 | | 103 | | 109 | | 70-130 | % | 07.09.19 04:01 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094957

Parent Sample Id: 629707-001

Matrix: Soil

MS Sample Id: 629707-001 S

Prep Method: SW5030B

Date Prep: 07.08.19

MSD Sample Id: 629707-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0779 | 78 | 0.0746 | 74 | 70-130 | 4 | 35 | mg/kg | 07.09.19 04:45 | |
| Toluene | <0.00200 | 0.0998 | 0.0757 | 76 | 0.0732 | 72 | 70-130 | 3 | 35 | mg/kg | 07.09.19 04:45 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0815 | 82 | 0.0791 | 78 | 70-130 | 3 | 35 | mg/kg | 07.09.19 04:45 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.163 | 82 | 0.157 | 78 | 70-130 | 4 | 35 | mg/kg | 07.09.19 04:45 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0801 | 80 | 0.0748 | 74 | 70-130 | 7 | 35 | mg/kg | 07.09.19 04:45 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 99 | | 70-130 | % | 07.09.19 04:45 |
| 4-Bromofluorobenzene | 122 | | 124 | | 70-130 | % | 07.09.19 04:45 |

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

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

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

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



Chain of Custody

Work Order No:

629707

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)586-3443 Lubbock, TX (806)794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-392-7550)



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| | | | |
|------------------|--|-------------------------|--|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 432.236.3849 | Email: | bbell@ltenv.com |

| | |
|---|--|
| Work Order Comments | |
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> | |
| State of Project: | |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> | |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | |

[illegible]

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

| | | | | | | | | | |
|---|---|-------------|------------------------------|--------------------------|-----------|--|--|--|--|
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | | | | | | | | | |
| Total 200.7 / 6010 200.8 / 6020: | | | | | | | | | |
| Circle Method(s) and Metal(s) to be analyzed | | | | | | | | | |
| 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn | | | | | | | | | |
| TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | | | | | | | | | |
| 1631 / 245.1 / 7470 / 7471 : Hg | | | | | | | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | | | | |
|  |  | 070219 0805 | | | | | | | |
| | | | | | 2 | | | | |
| | | | | | 4 | | | | |
| | | | | | 6 | | | | |



Chain of Custody

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

Work Order No. 629707

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Page 2 of 2

| | | | |
|------------------|--|-------------------------|---------------------|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Little |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 432.236.3849 | Email: | bbeill@ltenv.com |

| | |
|---|---------------------|
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund State of Project: Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | Work Order Comments |
|---|---------------------|

| | | | |
|-----------------|--------------------|-------------|-------------------------------------|
| Project Name: | PLU CVK JPC 0014 | Turn Around | <input checked="" type="checkbox"/> |
| Project Number: | 288-3813, 288-3180 | Routine | <input checked="" type="checkbox"/> |
| P.O. Number: | 012919135 | Rush: | |
| Sampler's Name: | Benjamin Beill | Due Date: | |

| | | | |
|-----------------------|-----|----|--------------------|
| SAMPLE RECEIPT | | | |
| Temp Blank: | Yes | No | Wet Ice: |
| Received Intact: | Yes | No | Thermometer ID |
| Cooler Custody Seals: | Yes | No | Correction Factor: |
| Sample Custody Seals: | Yes | No | Total Containers: |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | ANALYSIS REQUEST | | | | | | | | | | Work Order Notes |
|---|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|--|--|--|--|--|--|------------------|
| | | | | | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | | | | | | | |
| PH05A | S | 6/24/19 | 1410 | 4' | 1 | X | X | X | | | | | | | |
| PH07 | | | 1510 | 2' | 1 | X | X | X | | | | | | | |
| PH07A | | | 1515 | 4' | 1 | X | X | X | | | | | | | |
| <i>[Handwritten signature across the table]</i> | | | | | | | | | | | | | | | |

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

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

| | | | | | |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 07-02-19 0803 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



Inter-Office Shipment

Page 1 of 2

IOS Number **42703**

Date/Time: 07/02/19 09:55

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775624086614

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|---------------------|----------|----------|-----|----------------------|------|
| 629707-001 | S | PH01 | 06/28/19 12:10 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-001 | S | PH01 | 06/28/19 12:10 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-001 | S | PH01 | 06/28/19 12:10 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-002 | S | PH01A | 06/28/19 12:15 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-002 | S | PH01A | 06/28/19 12:15 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-002 | S | PH01A | 06/28/19 12:15 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-003 | S | PH01B | 06/28/19 12:20 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-003 | S | PH01B | 06/28/19 12:20 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-003 | S | PH01B | 06/28/19 12:20 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-004 | S | PH02 | 06/28/19 12:30 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-004 | S | PH02 | 06/28/19 12:30 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-004 | S | PH02 | 06/28/19 12:30 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-005 | S | PH02A | 06/28/19 12:45 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-005 | S | PH02A | 06/28/19 12:45 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-005 | S | PH02A | 06/28/19 12:45 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-006 | S | PH03 | 06/28/19 13:00 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-006 | S | PH03 | 06/28/19 13:00 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-006 | S | PH03 | 06/28/19 13:00 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-007 | S | PH03A | 06/28/19 13:20 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-007 | S | PH03A | 06/28/19 13:20 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-007 | S | PH03A | 06/28/19 13:20 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-008 | S | PH04 | 06/28/19 13:40 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PF | |
| 629707-008 | S | PH04 | 06/28/19 13:40 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-008 | S | PH04 | 06/28/19 13:40 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-009 | S | PH04A | 06/28/19 13:50 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |



Inter-Office Shipment

Page 2 of 2

IOS Number **42703**

Date/Time: 07/02/19 09:55

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775624086614

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|---------------------|----------|----------|-----|----------------------|------|
| 629707-009 | S | PH04A | 06/28/19 13:50 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629707-009 | S | PH04A | 06/28/19 13:50 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-010 | S | PH05 | 06/28/19 14:00 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-010 | S | PH05 | 06/28/19 14:00 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-010 | S | PH05 | 06/28/19 14:00 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629707-011 | S | PH05A | 06/28/19 14:10 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629707-011 | S | PH05A | 06/28/19 14:10 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-011 | S | PH05A | 06/28/19 14:10 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-012 | S | PH07 | 06/28/19 15:10 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629707-012 | S | PH07 | 06/28/19 15:10 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629707-012 | S | PH07 | 06/28/19 15:10 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-013 | S | PH07A | 06/28/19 15:15 | SW8015MOD_NM | TPH by SW8015 Mod | 07/09/19 | 07/12/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629707-013 | S | PH07A | 06/28/19 15:15 | E300_CL | Chloride by EPA 300 | 07/09/19 | 12/25/19 | JKR | CL | |
| 629707-013 | S | PH07A | 06/28/19 15:15 | SW8021B | BTEX by EPA 8021B | 07/09/19 | 07/12/19 | JKR | BR4FBZ BZ BZME EBZ X | |

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 07/02/2019

Received By:

Brianna Teel

Date Received: 07/03/2019 11:28

Cooler Temperature: 0.4



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 42703

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sent By: Elizabeth McClellan

Date Sent: 07/02/2019 09:55 AM

Received By: Brianna Teel

Date Received: 07/03/2019 11:28 AM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07/03/2019



Client: LT Environmental, Inc.

Date/ Time Received: 07/02/2019 08:05:00 AM

Work Order #: 629707

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

| | | |
|---|-----|--------------------------|
| #1 *Temperature of cooler(s)? | 5.2 | |
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received on ice? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | No | |
| #5 Custody Seals intact on sample bottles? | No | |
| #6 *Custody Seals Signed and dated? | N/A | |
| #7 *Chain of Custody present? | Yes | |
| #8 Any missing/extra samples? | No | |
| #9 Chain of Custody signed when relinquished/ received? | Yes | |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | Yes | |
| #12 Samples in proper container/ bottle? | Yes | |
| #13 Samples properly preserved? | Yes | |
| #14 Sample container(s) intact? | Yes | |
| #15 Sufficient sample amount for indicated test(s)? | Yes | |
| #16 All samples received within hold time? | Yes | |
| #17 Subcontract of sample(s)? | Yes | Subbed to Xenco Midland. |
| #18 Water VOC samples have zero headspace? | N/A | |

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 07/02/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/03/2019

Analytical Report 629690

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU CVX JV PC 001H

2RP-3813,2RP-3180

05-JUL-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

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



05-JUL-19

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **629690**

PLU CVX JV PC 001H

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) 629690. 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. 629690 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,

A handwritten signature in black ink that reads 'Kalei Stout'.

Kalei Stout

Midland Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

**Sample Cross Reference 629690****LT Environmental, Inc., Arvada, CO**

PLU CVX JV PC 001H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| PH06 | S | 06-28-19 14:45 | 2 ft | 629690-001 |
| PH06A | S | 06-28-19 14:50 | 4 ft | 629690-002 |
| PH06B | S | 06-28-19 15:00 | 6 ft | 629690-003 |



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *PLU CVX JV PC 001H*

Project ID: 2RP-3813, 2RP-3180
Work Order Number(s): 629690

Report Date: 05-JUL-19
Date Received: 07/02/2019

Sample receipt non conformance and comments:

07/05/19: revised report to correct sample prep and analyzed date for chlorides.

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

Batch: LBA-3094254 Chloride by EPA 300

Lab Sample ID 629704-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 629690-001, -002, -003.

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

Batch: LBA-3094305 BTEX by EPA 8021B

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



Certificate of Analysis Summary 629690

LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 2RP-3813,2RP-3180
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Tue Jul-02-19 11:59 am
Report Date: 05-JUL-19
Project Manager: Jessica Kramer

| | | | | | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 629690-001 | 629690-002 | 629690-003 | | | |
| | Field Id: | PH06 | PH06A | PH06B | | | |
| | Depth: | 2- ft | 4- ft | 6- ft | | | |
| | Matrix: | SOIL | SOIL | SOIL | | | |
| | Sampled: | Jun-28-19 14:45 | Jun-28-19 14:50 | Jun-28-19 15:00 | | | |
| BTEX by EPA 8021B | Extracted: | Jul-02-19 18:00 | Jul-02-19 18:00 | Jul-02-19 18:00 | | | |
| | Analyzed: | Jul-03-19 04:18 | Jul-03-19 04:40 | Jul-03-19 05:02 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Benzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| Toluene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| Ethylbenzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| m,p-Xylenes | | <0.00400 0.00400 | <0.00400 0.00400 | <0.00394 0.00394 | | | |
| o-Xylene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| Total Xylenes | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| Total BTEX | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00197 0.00197 | | | |
| Chloride by EPA 300 | Extracted: | Jul-02-19 16:50 | Jul-02-19 16:50 | Jul-02-19 16:50 | | | |
| | Analyzed: | Jul-02-19 17:05 | Jul-02-19 17:19 | Jul-02-19 17:24 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Chloride | | 607 5.02 | 565 4.98 | 78.7 5.00 | | | |
| TPH by SW8015 Mod | Extracted: | Jul-02-19 14:00 | Jul-02-19 14:00 | Jul-02-19 14:00 | | | |
| | Analyzed: | Jul-03-19 04:47 | Jul-03-19 05:11 | Jul-03-19 05:35 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| | | | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |
| Total GRO-DRO | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | | | |

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

Kalei Stout
 Midland Laboratory Director



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06**
Lab Sample Id: 629690-001

Matrix: Soil
Date Collected: 06.28.19 14.45

Date Received: 07.02.19 11.59
Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094254

Date Prep: 07.02.19 16.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|------------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 607 | 5.02 | mg/kg | 07.02.19 17.05 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094321

Date Prep: 07.02.19 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.03.19 04.47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.03.19 04.47 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.03.19 04.47 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.03.19 04.47 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.03.19 04.47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 07.03.19 04.47 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-135 | 07.03.19 04.47 | |



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06**
Lab Sample Id: 629690-001

Matrix: Soil
Date Collected: 06.28.19 14.45

Date Received: 07.02.19 11.59
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: FOV

Analyst: FOV

Seq Number: 3094305

Date Prep: 07.02.19 18.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.03.19 04.18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.18 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.03.19 04.18 | | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 07.03.19 04.18 | | |



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06A**
Lab Sample Id: 629690-002

Matrix: Soil
Date Collected: 06.28.19 14.50

Date Received: 07.02.19 11.59
Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094254

Date Prep: 07.02.19 16.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 565 | 4.98 | mg/kg | 07.02.19 17.19 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094321

Date Prep: 07.02.19 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.03.19 05.11 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.03.19 05.11 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.03.19 05.11 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.03.19 05.11 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.03.19 05.11 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 07.03.19 05.11 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 07.03.19 05.11 | |



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06A**
Lab Sample Id: 629690-002

Matrix: Soil
Date Collected: 06.28.19 14.50

Date Received: 07.02.19 11.59
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: FOV

Analyst: FOV

Seq Number: 3094305

Date Prep: 07.02.19 18.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.03.19 04.40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.03.19 04.40 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.03.19 04.40 | | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.03.19 04.40 | | |



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06B**
Lab Sample Id: 629690-003

Matrix: Soil
Date Collected: 06.28.19 15.00

Date Received: 07.02.19 11.59
Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3094254

Date Prep: 07.02.19 16.50

Prep Method: E300P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 78.7 | 5.00 | mg/kg | 07.02.19 17.24 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3094321

Date Prep: 07.02.19 14.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.03.19 05.35 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.03.19 05.35 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.03.19 05.35 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.03.19 05.35 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.03.19 05.35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 07.03.19 05.35 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 07.03.19 05.35 | |



Certificate of Analytical Results 629690



LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH06B**
Lab Sample Id: 629690-003

Matrix: Soil
Date Collected: 06.28.19 15.00

Date Received: 07.02.19 11.59
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: FOV

% Moisture:

Analyst: FOV

Date Prep: 07.02.19 18.00

Basis: Wet Weight

Seq Number: 3094305

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| Toluene | 108-88-3 | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00394 | 0.00394 | mg/kg | 07.03.19 05.02 | U | 1 |
| o-Xylene | 95-47-6 | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| Total BTEX | | <0.00197 | 0.00197 | mg/kg | 07.03.19 05.02 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.03.19 05.02 | | |
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 07.03.19 05.02 | | |



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
PLU CVX JV PC 001H

Analytical Method: Chloride by EPA 300

Seq Number: 3094254

MB Sample Id: 7681263-1-BLK

Matrix: Solid

LCS Sample Id: 7681263-1-BKS

Prep Method: E300P

Date Prep: 07.02.19

LCSD Sample Id: 7681263-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <0.858 | 250 | 250 | 100 | 249 | 100 | 90-110 | 0 | 20 | mg/kg | 07.02.19 16:55 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3094254

Parent Sample Id: 629690-001

Matrix: Soil

MS Sample Id: 629690-001 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629690-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 607 | 251 | 798 | 76 | 796 | 75 | 90-110 | 0 | 20 | mg/kg | 07.02.19 17:09 | X |

Analytical Method: Chloride by EPA 300

Seq Number: 3094254

Parent Sample Id: 629704-009

Matrix: Soil

MS Sample Id: 629704-009 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629704-009 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 527 | 249 | 740 | 86 | 740 | 86 | 90-110 | 0 | 20 | mg/kg | 07.02.19 18:17 | X |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3094321

MB Sample Id: 7681279-1-BLK

Matrix: Solid

LCS Sample Id: 7681279-1-BKS

Prep Method: TX1005P

Date Prep: 07.02.19

LCSD Sample Id: 7681279-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 965 | 97 | 1030 | 103 | 70-135 | 7 | 20 | mg/kg | 07.02.19 21:03 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1020 | 102 | 1120 | 112 | 70-135 | 9 | 20 | mg/kg | 07.02.19 21:03 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 106 | | 90 | | 92 | | 70-135 | % | 07.02.19 21:03 |
| o-Terphenyl | 107 | | 93 | | 100 | | 70-135 | % | 07.02.19 21:03 |

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

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

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

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



LT Environmental, Inc.
PLU CVX JV PC 001H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3094321

Parent Sample Id: 629602-001

Matrix: Soil

MS Sample Id: 629602-001 S

Prep Method: TX1005P

Date Prep: 07.02.19

MSD Sample Id: 629602-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 11.5 | 997 | 988 | 98 | 996 | 99 | 70-135 | 1 | 20 | mg/kg | 07.02.19 22:17 | |
| Diesel Range Organics (DRO) | 11.5 | 997 | 1100 | 109 | 1040 | 103 | 70-135 | 6 | 20 | mg/kg | 07.02.19 22:17 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 85 | | 85 | | 70-135 | % | 07.02.19 22:17 |
| o-Terphenyl | 95 | | 89 | | 70-135 | % | 07.02.19 22:17 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094305

MB Sample Id: 7681305-1-BLK

Matrix: Solid

LCS Sample Id: 7681305-1-BKS

Prep Method: SW5030B

Date Prep: 07.02.19

LCSD Sample Id: 7681305-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.0998 | 0.0909 | 91 | 0.0923 | 93 | 70-130 | 2 | 35 | mg/kg | 07.03.19 00:57 | |
| Toluene | <0.00200 | 0.0998 | 0.0896 | 90 | 0.0892 | 90 | 70-130 | 0 | 35 | mg/kg | 07.03.19 00:57 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.100 | 100 | 0.102 | 103 | 70-130 | 2 | 35 | mg/kg | 07.03.19 00:57 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.203 | 102 | 0.203 | 103 | 70-130 | 0 | 35 | mg/kg | 07.03.19 00:57 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0953 | 95 | 0.0963 | 97 | 70-130 | 1 | 35 | mg/kg | 07.03.19 00:57 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 91 | | 97 | | 95 | | 70-130 | % | 07.03.19 00:57 |
| 4-Bromofluorobenzene | 97 | | 111 | | 107 | | 70-130 | % | 07.03.19 00:57 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094305

Parent Sample Id: 629696-001

Matrix: Soil

MS Sample Id: 629696-001 S

Prep Method: SW5030B

Date Prep: 07.02.19

MSD Sample Id: 629696-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00197 | 0.0986 | 0.0789 | 80 | 0.0875 | 89 | 70-130 | 10 | 35 | mg/kg | 07.03.19 01:41 | |
| Toluene | <0.00197 | 0.0986 | 0.0758 | 77 | 0.0868 | 88 | 70-130 | 14 | 35 | mg/kg | 07.03.19 01:41 | |
| Ethylbenzene | <0.00197 | 0.0986 | 0.0861 | 87 | 0.0988 | 100 | 70-130 | 14 | 35 | mg/kg | 07.03.19 01:41 | |
| m,p-Xylenes | <0.00394 | 0.197 | 0.172 | 87 | 0.201 | 102 | 70-130 | 16 | 35 | mg/kg | 07.03.19 01:41 | |
| o-Xylene | <0.00197 | 0.0986 | 0.0841 | 85 | 0.0933 | 94 | 70-130 | 10 | 35 | mg/kg | 07.03.19 01:41 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 93 | | 96 | | 70-130 | % | 07.03.19 01:41 |
| 4-Bromofluorobenzene | 117 | | 118 | | 70-130 | % | 07.03.19 01:41 |

MS/MSD Percent Recovery
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

ORIGIN ID: CAOA (281) 240-4200
SAMPLE CUSTODY
XENOCO LABORATORIES NM
1089 N CANAL ST
CARLSBAD, NM 88220
UNITED STATES US

SHIP DATE: 01 JUL 19
ACTWGT: 58.00 LB
CAD: 114488676INET4100
DIMS: 24x13x13 IN
BILL SENDER

TO SAMPLE RECEIVING

3600 S COUNTY ROAD 1276

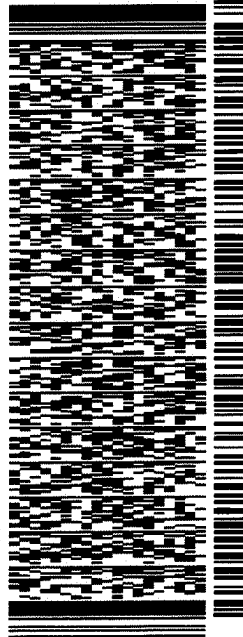
MIDLAND TX 79706

(432) 704-5440

REF:

INV:

DEPT:



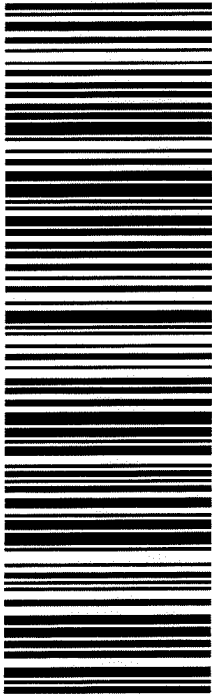
565J2/A6F9/23AD

TRK# 7756 1299 6833
0201

TUE - 02 JUL HOLD
PRIORITY OVERNIGHT

41 MAFA

HLD 79706
TX-US LBB



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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07/02/2019 11:59:00 AM

Work Order #: 629690

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 07/02/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/02/2019

Analytical Report 629984

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU CVX JV PC 001H

012919135

15-JUL-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

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



15-JUL-19

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **629984**

PLU CVX JV PC 001H

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) 629984. 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. 629984 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,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

**Sample Cross Reference 629984****LT Environmental, Inc., Arvada, CO**

PLU CVX JV PC 001H

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW01 | S | 07-03-19 09:20 | 0 - 4 ft | 629984-001 |
| SW02 | S | 07-03-19 09:25 | 0 - 4 ft | 629984-002 |
| SW03 | S | 07-03-19 09:35 | 0 - 4 ft | 629984-003 |
| SW04 | S | 07-03-19 09:45 | 0 - 4 ft | 629984-004 |
| SW05 | S | 07-03-19 09:50 | 0 - 4 ft | 629984-005 |
| PH08 | S | 07-03-19 10:40 | 6 - 0 ft | 629984-006 |
| PH08A | S | 07-03-19 10:50 | 8 - 0 ft | 629984-007 |
| PH09 | S | 07-03-19 11:00 | 6 - 0 ft | 629984-008 |
| FS01 | S | 07-03-19 11:45 | 4 - 0 ft | 629984-009 |
| FS02 | S | 07-03-19 11:50 | 4 - 0 ft | 629984-010 |
| FS03 | S | 07-03-19 11:55 | 4 - 0 ft | 629984-011 |
| FS04 | S | 07-03-19 12:00 | 4 - 0 ft | 629984-012 |
| FS05 | S | 07-03-19 12:05 | 4 - 0 ft | 629984-013 |
| FS06 | S | 07-03-19 12:10 | 4 - 0 ft | 629984-014 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU CVX JV PC 001H

Project ID: 012919135

Work Order Number(s): 629984

Report Date: 15-JUL-19

Date Received: 07/03/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094952 BTEX by EPA 8021B

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

Batch: LBA-3094964 BTEX by EPA 8021B

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

Certificate of Analysis Summary 629984



LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 012919135

Contact: Dan Moir

Project Location: Delaware Basin

Date Received in Lab: Wed Jul-03-19 04:10 pm

Report Date: 15-JUL-19

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 629984-001 | 629984-002 | 629984-003 | 629984-004 | 629984-005 | 629984-006 |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | SW01 | SW02 | SW03 | SW04 | SW05 | PH08 |
| | <i>Depth:</i> | 0-4 ft | 0-4 ft | 0-4 ft | 0-4 ft | 0-4 ft | 6-0 ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Jul-03-19 09:20 | Jul-03-19 09:25 | Jul-03-19 09:35 | Jul-03-19 09:45 | Jul-03-19 09:50 | Jul-03-19 10:40 |
| BTEX by EPA 8021B SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-09-19 11:15 | Jul-09-19 11:15 | Jul-09-19 11:15 | Jul-09-19 11:15 | Jul-09-19 11:15 | Jul-09-19 11:15 |
| | <i>Analyzed:</i> | Jul-10-19 08:30 | Jul-10-19 08:53 | Jul-10-19 09:16 | Jul-10-19 09:40 | Jul-10-19 10:03 | Jul-10-19 10:26 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| Toluene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| Ethylbenzene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| m,p-Xylenes | | <0.00402 0.00402 | <0.00399 0.00399 | <0.00398 0.00398 | <0.00401 0.00401 | <0.00400 0.00400 | <0.00398 0.00398 |
| o-Xylene | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| Total Xylenes | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| Total BTEX | | <0.00201 0.00201 | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00199 0.00199 |
| Chloride by EPA 300 SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 |
| | <i>Analyzed:</i> | Jul-09-19 14:12 | Jul-09-19 14:33 | Jul-09-19 14:41 | Jul-09-19 14:48 | Jul-09-19 14:55 | Jul-09-19 15:17 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 342 5.04 | 285 5.01 | 226 5.03 | 19.9 5.03 | 122 5.00 | 791 4.97 |
| TPH by SW8015 Mod SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 |
| | <i>Analyzed:</i> | Jul-14-19 22:05 | Jul-14-19 23:18 | Jul-14-19 23:42 | Jul-15-19 00:06 | Jul-15-19 00:30 | Jul-15-19 00:55 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total GRO-DRO | | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |

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

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

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629984

LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 012919135

Contact: Dan Moir

Project Location: Delaware Basin

Date Received in Lab: Wed Jul-03-19 04:10 pm

Report Date: 15-JUL-19

Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 629984-007 | 629984-008 | 629984-009 | 629984-010 | 629984-011 | 629984-012 |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | PH08A | PH09 | FS01 | FS02 | FS03 | FS04 |
| | <i>Depth:</i> | 8-0 ft | 6-0 ft | 4-0 ft | 4-0 ft | 4-0 ft | 4-0 ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Jul-03-19 10:50 | Jul-03-19 11:00 | Jul-03-19 11:45 | Jul-03-19 11:50 | Jul-03-19 11:55 | Jul-03-19 12:00 |
| BTEX by EPA 8021B SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-09-19 13:45 | Jul-09-19 13:45 | Jul-09-19 13:45 | Jul-09-19 13:45 | Jul-09-19 13:45 | Jul-09-19 13:45 |
| | <i>Analyzed:</i> | Jul-10-19 11:37 | Jul-11-19 12:00 | Jul-11-19 12:22 | Jul-11-19 12:44 | Jul-11-19 01:07 | Jul-11-19 01:29 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Benzene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| Toluene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| Ethylbenzene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| m,p-Xylenes | | <0.00401 0.00401 | <0.00398 0.00398 | <0.00402 0.00402 | <0.00400 0.00400 | <0.00397 0.00397 | <0.00398 0.00398 |
| o-Xylene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| Total Xylenes | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| Total BTEX | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00201 0.00201 | <0.00200 0.00200 | <0.00198 0.00198 | <0.00199 0.00199 |
| Chloride by EPA 300 SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 | Jul-09-19 13:00 |
| | <i>Analyzed:</i> | Jul-09-19 15:24 | Jul-09-19 15:31 | Jul-09-19 15:39 | Jul-09-19 15:46 | Jul-09-19 16:15 | Jul-09-19 16:43 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Chloride | | 46.3 5.01 | 113 5.00 | 2110 25.0 | 2260 25.0 | 2450 24.8 | 1130 4.99 |
| TPH by SW8015 Mod SUB: T104704400-18-16 | <i>Extracted:</i> | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 | Jul-14-19 10:00 |
| | <i>Analyzed:</i> | Jul-15-19 01:19 | Jul-15-19 01:43 | Jul-15-19 02:07 | Jul-15-19 02:31 | Jul-15-19 03:19 | Jul-15-19 03:42 |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL | mg/kg RL |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Diesel Range Organics (DRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Motor Oil Range Hydrocarbons (MRO) | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total TPH | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |
| Total GRO-DRO | | <15.0 15.0 | <15.0 15.0 | <14.9 14.9 | <15.0 15.0 | <15.0 15.0 | <15.0 15.0 |

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629984

LT Environmental, Inc., Arvada, CO

Project Name: PLU CVX JV PC 001H

Project Id: 012919135
Contact: Dan Moir
Project Location: Delaware Basin

Date Received in Lab: Wed Jul-03-19 04:10 pm
Report Date: 15-JUL-19
Project Manager: Jessica Kramer

| | | | | | | | |
|--|------------------------------------|------------------|------------------|--|--|--|--|
| Analysis Requested | Lab Id: | 629984-013 | 629984-014 | | | | |
| | Field Id: | FS05 | FS06 | | | | |
| | Depth: | 4-0 ft | 4-0 ft | | | | |
| | Matrix: | SOIL | SOIL | | | | |
| | Sampled: | Jul-03-19 12:05 | Jul-03-19 12:10 | | | | |
| BTEX by EPA 8021B SUB: T104704400-18-16 | Extracted: | Jul-09-19 13:45 | Jul-09-19 13:45 | | | | |
| | Analyzed: | Jul-11-19 01:51 | Jul-11-19 02:13 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Benzene | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| | Toluene | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| | Ethylbenzene | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| | m,p-Xylenes | <0.00403 0.00403 | <0.00400 0.00400 | | | | |
| | o-Xylene | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| | Total Xylenes | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| | Total BTEX | <0.00202 0.00202 | <0.00200 0.00200 | | | | |
| Chloride by EPA 300 SUB: T104704400-18-16 | Extracted: | Jul-09-19 13:00 | Jul-09-19 13:00 | | | | |
| | Analyzed: | Jul-09-19 17:35 | Jul-09-19 17:42 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Chloride | 881 4.97 | 2110 24.8 | | | | |
| | | | | | | | |
| TPH by SW8015 Mod SUB: T104704400-18-16 | Extracted: | Jul-14-19 10:00 | Jul-14-19 10:00 | | | | |
| | Analyzed: | Jul-15-19 04:06 | Jul-15-19 04:30 | | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | | |
| | Gasoline Range Hydrocarbons (GRO) | <15.0 15.0 | <15.0 15.0 | | | | |
| | Diesel Range Organics (DRO) | <15.0 15.0 | <15.0 15.0 | | | | |
| | Motor Oil Range Hydrocarbons (MRO) | <15.0 15.0 | <15.0 15.0 | | | | |
| | Total TPH | <15.0 15.0 | <15.0 15.0 | | | | |
| | Total GRO-DRO | <15.0 15.0 | <15.0 15.0 | | | | |

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

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

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW01**
Lab Sample Id: 629984-001

Matrix: Soil
Date Collected: 07.03.19 09.20

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 342 | 5.04 | mg/kg | 07.09.19 14.12 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.14.19 22.05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.14.19 22.05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.14.19 22.05 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.14.19 22.05 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.14.19 22.05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 07.14.19 22.05 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-135 | 07.14.19 22.05 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW01**
Lab Sample Id: 629984-001

Matrix: Soil
Date Collected: 07.03.19 09.20

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094952

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 11.15

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.10.19 08.30 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.10.19 08.30 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | % | 70-130 | 07.10.19 08.30 | | |
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 07.10.19 08.30 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW02**
Lab Sample Id: 629984-002

Matrix: Soil
Date Collected: 07.03.19 09.25

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 285 | 5.01 | mg/kg | 07.09.19 14.33 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.14.19 23.18 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.14.19 23.18 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.14.19 23.18 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.14.19 23.18 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.14.19 23.18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 07.14.19 23.18 | |
| o-Terphenyl | 84-15-1 | 112 | % | 70-135 | 07.14.19 23.18 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW02**
Lab Sample Id: 629984-002

Matrix: Soil
Date Collected: 07.03.19 09.25

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094952

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 11.15

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.10.19 08.53 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.10.19 08.53 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 07.10.19 08.53 | | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 07.10.19 08.53 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW03**
Lab Sample Id: 629984-003

Matrix: Soil
Date Collected: 07.03.19 09.35

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 226 | 5.03 | mg/kg | 07.09.19 14.41 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.14.19 23.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.14.19 23.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.14.19 23.42 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.14.19 23.42 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.14.19 23.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 07.14.19 23.42 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 07.14.19 23.42 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW03**
Lab Sample Id: 629984-003

Matrix: Soil
Date Collected: 07.03.19 09.35

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094952

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 11.15

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.10.19 09.16 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.10.19 09.16 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.10.19 09.16 | | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 07.10.19 09.16 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW04**
Lab Sample Id: 629984-004

Matrix: Soil
Date Collected: 07.03.19 09.45

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 19.9 | 5.03 | mg/kg | 07.09.19 14.48 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 00.06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 00.06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 00.06 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 00.06 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 00.06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 07.15.19 00.06 | |
| o-Terphenyl | 84-15-1 | 113 | % | 70-135 | 07.15.19 00.06 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW04**
Lab Sample Id: 629984-004

Matrix: Soil
Date Collected: 07.03.19 09.45

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094952

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 11.15

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.10.19 09.40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.10.19 09.40 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.10.19 09.40 | | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 07.10.19 09.40 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW05**
Lab Sample Id: 629984-005

Matrix: Soil
Date Collected: 07.03.19 09.50

Date Received: 07.03.19 16.10
Sample Depth: 0 - 4 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 122 | 5.00 | mg/kg | 07.09.19 14.55 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 00.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 00.30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 00.30 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 00.30 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 00.30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 07.15.19 00.30 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 07.15.19 00.30 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **SW05**

Matrix: Soil

Date Received: 07.03.19 16.10

Lab Sample Id: 629984-005

Date Collected: 07.03.19 09.50

Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 11.15

Basis: Wet Weight

Seq Number: 3094952

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.10.19 10.03 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.10.19 10.03 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.10.19 10.03 | | |
| 1,4-Difluorobenzene | 540-36-3 | 90 | % | 70-130 | 07.10.19 10.03 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH08**
Lab Sample Id: 629984-006

Matrix: Soil
Date Collected: 07.03.19 10.40

Date Received: 07.03.19 16.10
Sample Depth: 6 - 0 ft

Analytical Method: Chloride by EPA 300
Tech: SPC
Analyst: SPC
Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P
% Moisture:
Basis: Wet Weight
SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 791 | 4.97 | mg/kg | 07.09.19 15.17 | | 1 |

Analytical Method: TPH by SW8015 Mod
Tech: DVM
Analyst: ARM
Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 00.55 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 00.55 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 00.55 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 00.55 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 00.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 07.15.19 00.55 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 07.15.19 00.55 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH08**
Lab Sample Id: 629984-006

Matrix: Soil
Date Collected: 07.03.19 10.40

Date Received: 07.03.19 16.10
Sample Depth: 6 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094952

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 11.15

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.10.19 10.26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.10.19 10.26 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 07.10.19 10.26 | | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 07.10.19 10.26 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH08A**
Lab Sample Id: 629984-007

Matrix: Soil
Date Collected: 07.03.19 10.50

Date Received: 07.03.19 16.10
Sample Depth: 8 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 46.3 | 5.01 | mg/kg | 07.09.19 15.24 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 01.19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 01.19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 01.19 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 01.19 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 01.19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 07.15.19 01.19 | |
| o-Terphenyl | 84-15-1 | 84 | % | 70-135 | 07.15.19 01.19 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH08A**
Lab Sample Id: 629984-007

Matrix: Soil
Date Collected: 07.03.19 10.50

Date Received: 07.03.19 16.10
Sample Depth: 8 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.10.19 11.37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.10.19 11.37 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.10.19 11.37 | | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 07.10.19 11.37 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH09**
Lab Sample Id: 629984-008

Matrix: Soil
Date Collected: 07.03.19 11.00

Date Received: 07.03.19 16.10
Sample Depth: 6 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 113 | 5.00 | mg/kg | 07.09.19 15.31 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 01.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 01.43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 01.43 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 01.43 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 01.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 87 | % | 70-135 | 07.15.19 01.43 | |
| o-Terphenyl | 84-15-1 | 91 | % | 70-135 | 07.15.19 01.43 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **PH09**
Lab Sample Id: 629984-008

Matrix: Soil
Date Collected: 07.03.19 11.00

Date Received: 07.03.19 16.10
Sample Depth: 6 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.11.19 12.00 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.11.19 12.00 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 07.11.19 12.00 | | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.11.19 12.00 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS01**
Lab Sample Id: 629984-009

Matrix: Soil
Date Collected: 07.03.19 11.45

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2110 | 25.0 | mg/kg | 07.09.19 15.39 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 07.15.19 02.07 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 07.15.19 02.07 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 07.15.19 02.07 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 07.15.19 02.07 | U | 1 |
| Total GRO-DRO | PHC628 | <14.9 | 14.9 | mg/kg | 07.15.19 02.07 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 07.15.19 02.07 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 07.15.19 02.07 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS01**
Lab Sample Id: 629984-009

Matrix: Soil
Date Collected: 07.03.19 11.45

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.11.19 12.22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.11.19 12.22 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.11.19 12.22 | | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.11.19 12.22 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS02**
Lab Sample Id: 629984-010

Matrix: Soil
Date Collected: 07.03.19 11.50

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2260 | 25.0 | mg/kg | 07.09.19 15.46 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 02.31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 02.31 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 02.31 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 02.31 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 02.31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 07.15.19 02.31 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 07.15.19 02.31 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS02**
Lab Sample Id: 629984-010

Matrix: Soil
Date Collected: 07.03.19 11.50

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Date Prep: 07.09.19 13.45

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.11.19 12.44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.11.19 12.44 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.11.19 12.44 | | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.11.19 12.44 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS03**
Lab Sample Id: 629984-011

Matrix: Soil
Date Collected: 07.03.19 11.55

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2450 | 24.8 | mg/kg | 07.09.19 16.15 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 03.19 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 03.19 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 03.19 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 03.19 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 03.19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 07.15.19 03.19 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 07.15.19 03.19 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS03**
Lab Sample Id: 629984-011

Matrix: Soil
Date Collected: 07.03.19 11.55

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 07.11.19 01.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 07.11.19 01.07 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 07.11.19 01.07 | | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 07.11.19 01.07 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS04**
Lab Sample Id: 629984-012

Matrix: Soil
Date Collected: 07.03.19 12.00

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1130 | 4.99 | mg/kg | 07.09.19 16.43 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 03.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 03.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 03.42 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 03.42 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 03.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 07.15.19 03.42 | |
| o-Terphenyl | 84-15-1 | 104 | % | 70-135 | 07.15.19 03.42 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS04**
Lab Sample Id: 629984-012

Matrix: Soil
Date Collected: 07.03.19 12.00

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.11.19 01.29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.11.19 01.29 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.11.19 01.29 | | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 07.11.19 01.29 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS05**
Lab Sample Id: 629984-013

Matrix: Soil
Date Collected: 07.03.19 12.05

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 881 | 4.97 | mg/kg | 07.09.19 17.35 | | 1 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 04.06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 04.06 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 04.06 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 04.06 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 04.06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 115 | % | 70-135 | 07.15.19 04.06 | |
| o-Terphenyl | 84-15-1 | 127 | % | 70-135 | 07.15.19 04.06 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS05**
Lab Sample Id: 629984-013

Matrix: Soil
Date Collected: 07.03.19 12.05

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 07.11.19 01.51 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 07.11.19 01.51 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 07.11.19 01.51 | | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 07.11.19 01.51 | | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS06**
Lab Sample Id: 629984-014

Matrix: Soil
Date Collected: 07.03.19 12.10

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: SPC

Analyst: SPC

Seq Number: 3094870

Date Prep: 07.09.19 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2110 | 24.8 | mg/kg | 07.09.19 17.42 | | 5 |

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ARM

Seq Number: 3095302

Date Prep: 07.14.19 10.00

Prep Method: TX1005P

% Moisture:

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 07.15.19 04.30 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 07.15.19 04.30 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 07.15.19 04.30 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 07.15.19 04.30 | U | 1 |
| Total GRO-DRO | PHC628 | <15.0 | 15.0 | mg/kg | 07.15.19 04.30 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 07.15.19 04.30 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 07.15.19 04.30 | |



Certificate of Analytical Results 629984

LT Environmental, Inc., Arvada, CO

PLU CVX JV PC 001H

Sample Id: **FS06**
Lab Sample Id: 629984-014

Matrix: Soil
Date Collected: 07.03.19 12.10

Date Received: 07.03.19 16.10
Sample Depth: 4 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: DVM

Analyst: FOV

Seq Number: 3094964

Prep Method: SW5030B

% Moisture:

Date Prep: 07.09.19 13.45

Basis: Wet Weight

SUB: T104704400-18-16

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.11.19 02.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.11.19 02.13 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 07.11.19 02.13 | | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 07.11.19 02.13 | | |



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
PLU CVX JV PC 001H

Analytical Method: Chloride by EPA 300

Seq Number: 3094870

MB Sample Id: 7681629-1-BLK

Matrix: Solid

LCS Sample Id: 7681629-1-BKS

Prep Method: E300P

Date Prep: 07.09.19

LCSD Sample Id: 7681629-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <5.00 | 250 | 246 | 98 | 246 | 98 | 90-110 | 0 | 20 | mg/kg | 07.09.19 13:47 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3094870

Parent Sample Id: 629984-001

Matrix: Soil

MS Sample Id: 629984-001 S

Prep Method: E300P

Date Prep: 07.09.19

MSD Sample Id: 629984-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 342 | 252 | 575 | 92 | 576 | 93 | 90-110 | 0 | 20 | mg/kg | 07.09.19 14:19 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3094870

Parent Sample Id: 630100-001

Matrix: Soil

MS Sample Id: 630100-001 S

Prep Method: E300P

Date Prep: 07.09.19

MSD Sample Id: 630100-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 133 | 250 | 376 | 97 | 377 | 98 | 90-110 | 0 | 20 | mg/kg | 07.09.19 16:00 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3095302

MB Sample Id: 7681992-1-BLK

Matrix: Solid

LCS Sample Id: 7681992-1-BKS

Prep Method: TX1005P

Date Prep: 07.14.19

LCSD Sample Id: 7681992-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <8.00 | 1000 | 1130 | 113 | 1090 | 109 | 70-135 | 4 | 20 | mg/kg | 07.14.19 21:16 | |
| Diesel Range Organics (DRO) | <8.13 | 1000 | 1170 | 117 | 1160 | 116 | 70-135 | 1 | 20 | mg/kg | 07.14.19 21:16 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 85 | | 103 | | 93 | | 70-135 | % | 07.14.19 21:16 |
| o-Terphenyl | 98 | | 126 | | 108 | | 70-135 | % | 07.14.19 21:16 |

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

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

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

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



LT Environmental, Inc.

PLU CVX JV PC 001H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3095302

Parent Sample Id: 629984-001

Matrix: Soil

MS Sample Id: 629984-001 S

Prep Method: TX1005P

Date Prep: 07.14.19

MSD Sample Id: 629984-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | 8.34 | 997 | 978 | 97 | 999 | 99 | 70-135 | 2 | 20 | mg/kg | 07.14.19 22:30 | |
| Diesel Range Organics (DRO) | <8.10 | 997 | 1070 | 107 | 1070 | 107 | 70-135 | 0 | 20 | mg/kg | 07.14.19 22:30 | |

Surrogate

| | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 86 | | 90 | | 70-135 | % | 07.14.19 22:30 |
| o-Terphenyl | 113 | | 114 | | 70-135 | % | 07.14.19 22:30 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094952

MB Sample Id: 7681643-1-BLK

Matrix: Solid

LCS Sample Id: 7681643-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.19

LCSD Sample Id: 7681643-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0812 | 81 | 0.0870 | 87 | 70-130 | 7 | 35 | mg/kg | 07.09.19 23:17 | |
| Toluene | <0.000456 | 0.100 | 0.101 | 101 | 0.106 | 106 | 70-130 | 5 | 35 | mg/kg | 07.09.19 23:17 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.116 | 116 | 0.120 | 120 | 70-130 | 3 | 35 | mg/kg | 07.09.19 23:17 | |
| m,p-Xylenes | <0.00101 | 0.200 | 0.231 | 116 | 0.241 | 121 | 70-130 | 4 | 35 | mg/kg | 07.09.19 23:17 | |
| o-Xylene | 0.000359 | 0.100 | 0.109 | 109 | 0.114 | 114 | 70-130 | 4 | 35 | mg/kg | 07.09.19 23:17 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 85 | | 87 | | 88 | | 70-130 | % | 07.09.19 23:17 |
| 4-Bromofluorobenzene | 107 | | 109 | | 107 | | 70-130 | % | 07.09.19 23:17 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094964

MB Sample Id: 7681647-1-BLK

Matrix: Solid

LCS Sample Id: 7681647-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.19

LCSD Sample Id: 7681647-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00199 | 0.0996 | 0.0863 | 87 | 0.0900 | 90 | 70-130 | 4 | 35 | mg/kg | 07.10.19 09:17 | |
| Toluene | <0.00199 | 0.0996 | 0.0870 | 87 | 0.0894 | 89 | 70-130 | 3 | 35 | mg/kg | 07.10.19 09:17 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0965 | 97 | 0.0978 | 98 | 70-130 | 1 | 35 | mg/kg | 07.10.19 09:17 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.196 | 98 | 0.199 | 100 | 70-130 | 2 | 35 | mg/kg | 07.10.19 09:17 | |
| o-Xylene | <0.00199 | 0.0996 | 0.0957 | 96 | 0.0986 | 99 | 70-130 | 3 | 35 | mg/kg | 07.10.19 09:17 | |

Surrogate

| | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 93 | | 91 | | 92 | | 70-130 | % | 07.10.19 09:17 |
| 4-Bromofluorobenzene | 101 | | 104 | | 112 | | 70-130 | % | 07.10.19 09:17 |

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

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

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

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



LT Environmental, Inc.

PLU CVX JV PC 001H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094952

Parent Sample Id: 629723-003

Matrix: Soil

MS Sample Id: 629723-003 S

Prep Method: SW5030B

Date Prep: 07.09.19

MSD Sample Id: 629723-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0729 | 73 | 0.0768 | 77 | 70-130 | 5 | 35 | mg/kg | 07.10.19 00:03 | |
| Toluene | 0.000780 | 0.100 | 0.0881 | 87 | 0.0928 | 92 | 70-130 | 5 | 35 | mg/kg | 07.10.19 00:03 | |
| Ethylbenzene | <0.000566 | 0.100 | 0.0953 | 95 | 0.101 | 101 | 70-130 | 6 | 35 | mg/kg | 07.10.19 00:03 | |
| m,p-Xylenes | 0.00262 | 0.200 | 0.190 | 94 | 0.202 | 99 | 70-130 | 6 | 35 | mg/kg | 07.10.19 00:03 | |
| o-Xylene | 0.00101 | 0.100 | 0.0913 | 90 | 0.0967 | 96 | 70-130 | 6 | 35 | mg/kg | 07.10.19 00:03 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 89 | | 90 | | 70-130 | % | 07.10.19 00:03 |
| 4-Bromofluorobenzene | 110 | | 111 | | 70-130 | % | 07.10.19 00:03 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094964

Parent Sample Id: 629984-007

Matrix: Soil

MS Sample Id: 629984-007 S

Prep Method: SW5030B

Date Prep: 07.09.19

MSD Sample Id: 629984-007 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00201 | 0.100 | 0.0842 | 84 | 0.0763 | 76 | 70-130 | 10 | 35 | mg/kg | 07.10.19 10:02 | |
| Toluene | <0.00201 | 0.100 | 0.0840 | 84 | 0.0775 | 78 | 70-130 | 8 | 35 | mg/kg | 07.10.19 10:02 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.0942 | 94 | 0.0851 | 85 | 70-130 | 10 | 35 | mg/kg | 07.10.19 10:02 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.189 | 94 | 0.172 | 86 | 70-130 | 9 | 35 | mg/kg | 07.10.19 10:02 | |
| o-Xylene | <0.00201 | 0.100 | 0.0943 | 94 | 0.0866 | 87 | 70-130 | 9 | 35 | mg/kg | 07.10.19 10:02 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 95 | | 96 | | 70-130 | % | 07.10.19 10:02 |
| 4-Bromofluorobenzene | 122 | | 127 | | 70-130 | % | 07.10.19 10:02 |

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

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

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

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



Chain of Custody

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

Work Order No: 1029984

| | | | |
|------------------|--|-------------------------|---------------------|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littlell |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 432.236.3849 | Email: | bbell@ltenv.com |

| | |
|---|---------------------|
| Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund State of Project: Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | Work Order Comments |
|---|---------------------|

| | | | |
|-----------------|--------------------|-------------|---|
| Project Name: | PLU CUE SV PC 0011 | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |
| Project Number: | 268-3813, 268-3180 | | |
| P.O. Number: | 01291915 | Rush: | |
| Sampler's Name: | Benjamin Belli | Due Date: | |

| | | | | | |
|-----------------------|---|--------------------|---|----------|---|
| SAMPLE RECEIPT | | Temp Blank: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Wet Ice: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| Temperature (°C): | 5.9 | Thermometer ID | TMM007 | | |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | -0.2 | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Total Containers: | 14 | | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | ANALYSIS REQUEST | | | | | | | | | | Work Order Notes |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|--|--|--|--|--|--|------------------|
| | | | | | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | | | | | | | |
| SW01 | S | 7/3/19 | 0920 | 6-4' | 1 | X | X | X | | | | | | | |
| SW02 | | | 0925 | 0-4' | | X | X | X | | | | | | | |
| SW03 | | | 0935 | 0-4' | | X | X | X | | | | | | | |
| SW04 | | | 0945 | 0-4' | | X | X | X | | | | | | | |
| SW05 | | | 0950 | 0-4' | | X | X | X | | | | | | | |
| PH05 | | | 1040 | 6' | | X | X | X | | | | | | | |
| PH08A | | | 1050 | 8' | | X | X | X | | | | | | | |
| PH09 | | | 1100 | 6' | | X | X | X | | | | | | | |
| FS01 | | | 1145 | 4' | | X | X | X | | | | | | | |
| FS02 | | | 1150 | 4' | | X | X | X | | | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

1631 / 245.1 / 7470 / 7471 : Hg

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

| | | | | | |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 7/3/19 16:10 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



Chain of Custody

Work Order No:

1029984

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

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Page 2 of 2

| | | | |
|------------------|--|-------------------------|---------------------|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littlell |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 3104 E Green Street |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 432.236.3849 | Email: | bbellill@ltenv.com |

| | | | |
|-----------------|--------------------|-------------|---|
| Project Name: | PLU CVX JV PC 601H | Turn Around | Route <input checked="" type="checkbox"/> Rush: |
| Project Number: | 280-3813, 280-3180 | | |
| P.O. Number: | 012919135 | | |
| Sampler's Name: | Benjamin Bellill | Due Date: | |

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

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number | TPH (EP | BTEX (E | Chloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

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

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
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Inter-Office Shipment

Page 1 of 2

IOS Number **42942**

Date/Time: 07/08/19 11:41

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775657776393

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
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| 629984-001 | S | SW01 | 07/03/19 09:20 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-001 | S | SW01 | 07/03/19 09:20 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-001 | S | SW01 | 07/03/19 09:20 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-002 | S | SW02 | 07/03/19 09:25 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-002 | S | SW02 | 07/03/19 09:25 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-002 | S | SW02 | 07/03/19 09:25 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-003 | S | SW03 | 07/03/19 09:35 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-003 | S | SW03 | 07/03/19 09:35 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-003 | S | SW03 | 07/03/19 09:35 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-004 | S | SW04 | 07/03/19 09:45 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-004 | S | SW04 | 07/03/19 09:45 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-004 | S | SW04 | 07/03/19 09:45 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-005 | S | SW05 | 07/03/19 09:50 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-005 | S | SW05 | 07/03/19 09:50 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-005 | S | SW05 | 07/03/19 09:50 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-006 | S | PH08 | 07/03/19 10:40 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-006 | S | PH08 | 07/03/19 10:40 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-006 | S | PH08 | 07/03/19 10:40 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-007 | S | PH08A | 07/03/19 10:50 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-007 | S | PH08A | 07/03/19 10:50 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-007 | S | PH08A | 07/03/19 10:50 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-008 | S | PH09 | 07/03/19 11:00 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-008 | S | PH09 | 07/03/19 11:00 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-008 | S | PH09 | 07/03/19 11:00 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-009 | S | FS01 | 07/03/19 11:45 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |



Inter-Office Shipment

Page 2 of 2

IOS Number **42942**

Date/Time: 07/08/19 11:41

Created by: Elizabeth McClellan

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775657776393

E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|------------|--------|------------------|-------------------|--------------|---------------------|----------|----------|-----|----------------------|------|
| 629984-009 | S | FS01 | 07/03/19 11:45 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-009 | S | FS01 | 07/03/19 11:45 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-010 | S | FS02 | 07/03/19 11:50 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-010 | S | FS02 | 07/03/19 11:50 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-010 | S | FS02 | 07/03/19 11:50 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-011 | S | FS03 | 07/03/19 11:55 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-011 | S | FS03 | 07/03/19 11:55 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-011 | S | FS03 | 07/03/19 11:55 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-012 | S | FS04 | 07/03/19 12:00 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-012 | S | FS04 | 07/03/19 12:00 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-012 | S | FS04 | 07/03/19 12:00 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-013 | S | FS05 | 07/03/19 12:05 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 629984-013 | S | FS05 | 07/03/19 12:05 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-013 | S | FS05 | 07/03/19 12:05 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-014 | S | FS06 | 07/03/19 12:10 | SW8021B | BTEX by EPA 8021B | 07/10/19 | 07/17/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 629984-014 | S | FS06 | 07/03/19 12:10 | E300_CL | Chloride by EPA 300 | 07/10/19 | 12/30/19 | JKR | CL | |
| 629984-014 | S | FS06 | 07/03/19 12:10 | SW8015MOD_NM | TPH by SW8015 Mod | 07/10/19 | 07/17/19 | JKR | GRO-DRO PHCC10C28 PI | |

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 07/08/2019

Received By:

Brianna Teel

Date Received: 07/09/2019 11:08

Cooler Temperature: 0.6



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 42942

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sent By: Elizabeth McClellan

Date Sent: 07/08/2019 11:41 AM

Received By: Brianna Teel

Date Received: 07/09/2019 11:08 AM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07/09/2019



Client: LT Environmental, Inc.

Date/ Time Received: 07/03/2019 04:10:00 PM

Work Order #: 629984

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

| | | |
|---|-----|--------------------------|
| #1 *Temperature of cooler(s)? | 5.9 | |
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received on ice? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | No | |
| #5 Custody Seals intact on sample bottles? | No | |
| #6 *Custody Seals Signed and dated? | N/A | |
| #7 *Chain of Custody present? | Yes | |
| #8 Any missing/extra samples? | No | |
| #9 Chain of Custody signed when relinquished/ received? | Yes | |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | Yes | |
| #12 Samples in proper container/ bottle? | Yes | |
| #13 Samples properly preserved? | Yes | |
| #14 Sample container(s) intact? | Yes | |
| #15 Sufficient sample amount for indicated test(s)? | Yes | |
| #16 All samples received within hold time? | Yes | |
| #17 Subcontract of sample(s)? | Yes | Subbed to Xenco Midland. |
| #18 Water VOC samples have zero headspace? | N/A | |

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 07/03/2019

Checklist reviewed by:

Jessica Kramer

Date: 07/09/2019

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

Action 270089

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 270089 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| amaxwell | None | 10/6/2023 |