ENSOLUM

April 14, 2026

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

**Re: Reclamation Report**
**Golden 8 Federal #001**
**Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495**
**Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared the following *Reclamation Report* for the Golden 8 Federal #001 (Site). This *Reclamation Report* documents the Site history, reclamation activities completed to date, and proposes a vegetation monitoring plan.

## BACKGROUND

The Site is located in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (32.4912491°, -104.0083542°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

Eight releases occurred at the Site between 2010 and 2019. The releases were reported to the New Mexico Oil Conservation Division (NMOCD) on Release Notification and Corrective Action Form C-141s and were assigned Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495. The Site was decommissioned and remediation and reclamation activities were completed at the Site during 2024.

Excavation of impacted soil and final confirmation soil sampling activities were completed at the Site between March and June 2024. The combined final excavation extents measured approximately 7,075 square feet. A total of approximately 2,860 cubic yards of impacted soil were removed during the excavation activities. Based on the delineation and excavation soil sample analytical results, a *Closure Request* dated January 16, 2026, was submitted to the NMOCD on January 19, 2026. The NMOCD approved the *Closure Request* for the eight above listed Incident Numbers between February 2 and February 5, 2026. Additional details regarding the releases, historical *Deferral and Closure Requests,* Site Characterization, delineation and excavation activities, and confirmation soil sample analytical results can be referenced in the January 16, 2026, *Closure Request* attached as an appendix in this report. Remediation of the releases was completed in accordance with Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC).



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## RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavations were backfilled and the disturbed areas were restored to the original condition. The excavations were backfilled with locally procured soil. Following backfill activities, the entire well pad was reclaimed and recontoured to match the surrounding topography. The excavation extents are shown on the attached Figure 1 and the well pad reclamation area is shown on the attached Figure 2.

One representative 5-point composite sample (BF01) was collected from the topsoil backfill material on March 19, 2026. The backfill soil sample was transported under strict chain-of-custody procedures to Cardinal Laboratories in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)–gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method 4500.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg), BTEX concentrations less than 50 mg/kg, and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix A. Photographic documentation of the current Site condition is included in Appendix B.

The reclaimed well pad will be re-seeded during the Spring of 2026, when temperatures and precipitation are conducive to vegetation growth. The Site will be seeded with the below BLM seed mix #2 for sandy sites at the rate specified in pounds of pure live seed (PLS) per acre.

| Species/Cultivar | PLS/Acre |
|---|---|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and the seed will be covered by chaining or harrowing the Site.

## VEGETATION MONITORING

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-

disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

## RECLAMATION APPROVAL REQUEST

The approved January 16, 2026, *Closure Request* is included in Appendix C. Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, XTO respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495.

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

Tacoma Morrissey, P.G.
Associate Principal

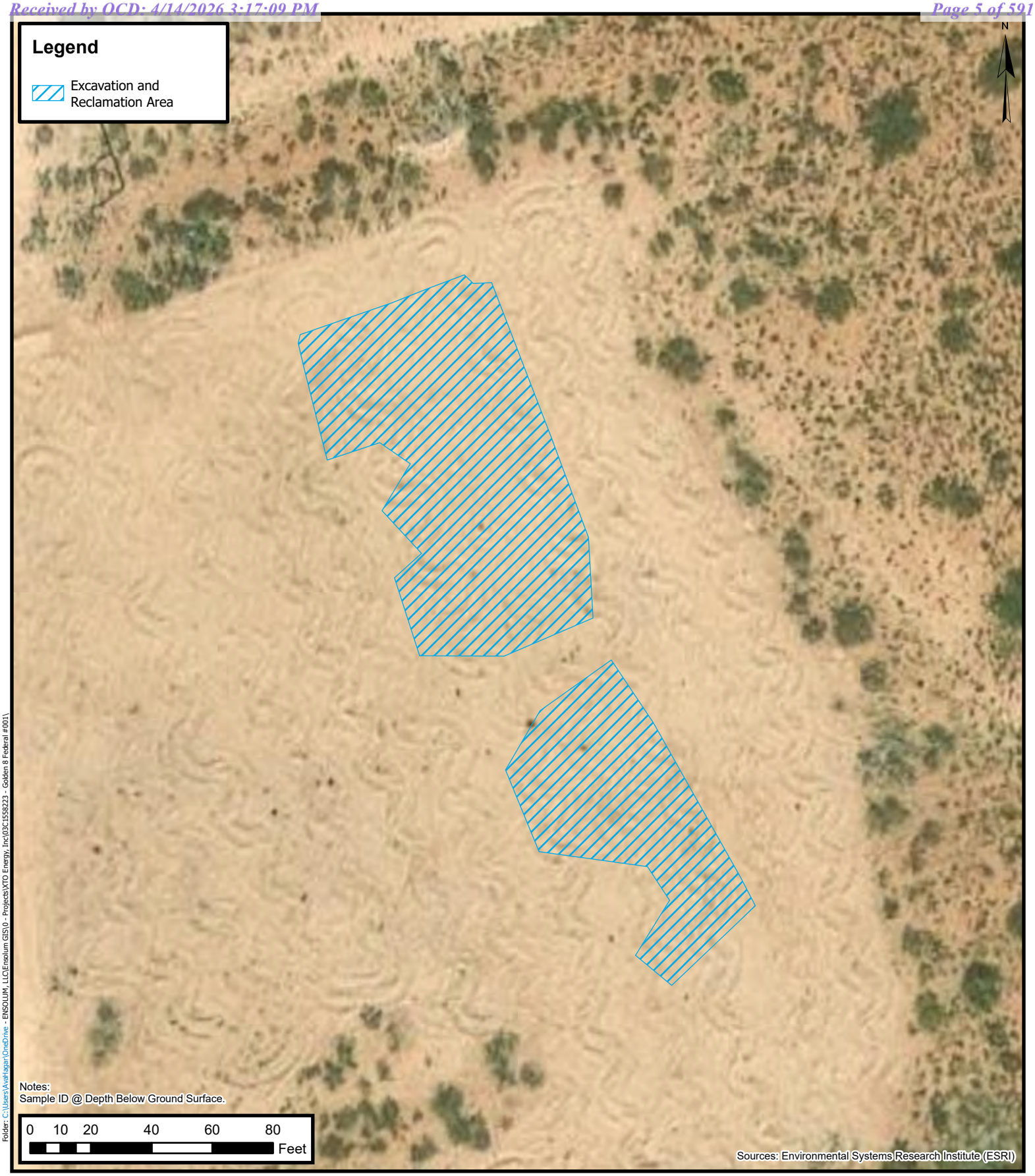
cc: Robert Woodall, XTO
Richard Kotzur, XTO
Bureau of Land Management

Appendices:

| | |
|---|---|
| Figure 1 | Excavation Area Map |
| Figure 2 | Well Pad Reclamation Area |
| Table 1 | Backfill Soil Sample Analytical Results |
| Appendix A | Laboratory Analytical Report & Chain of Custody Documentation |
| Appendix B | Photographic Log |
| Appendix C | January 16, 2026, *Closure Request* |

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# FIGURES



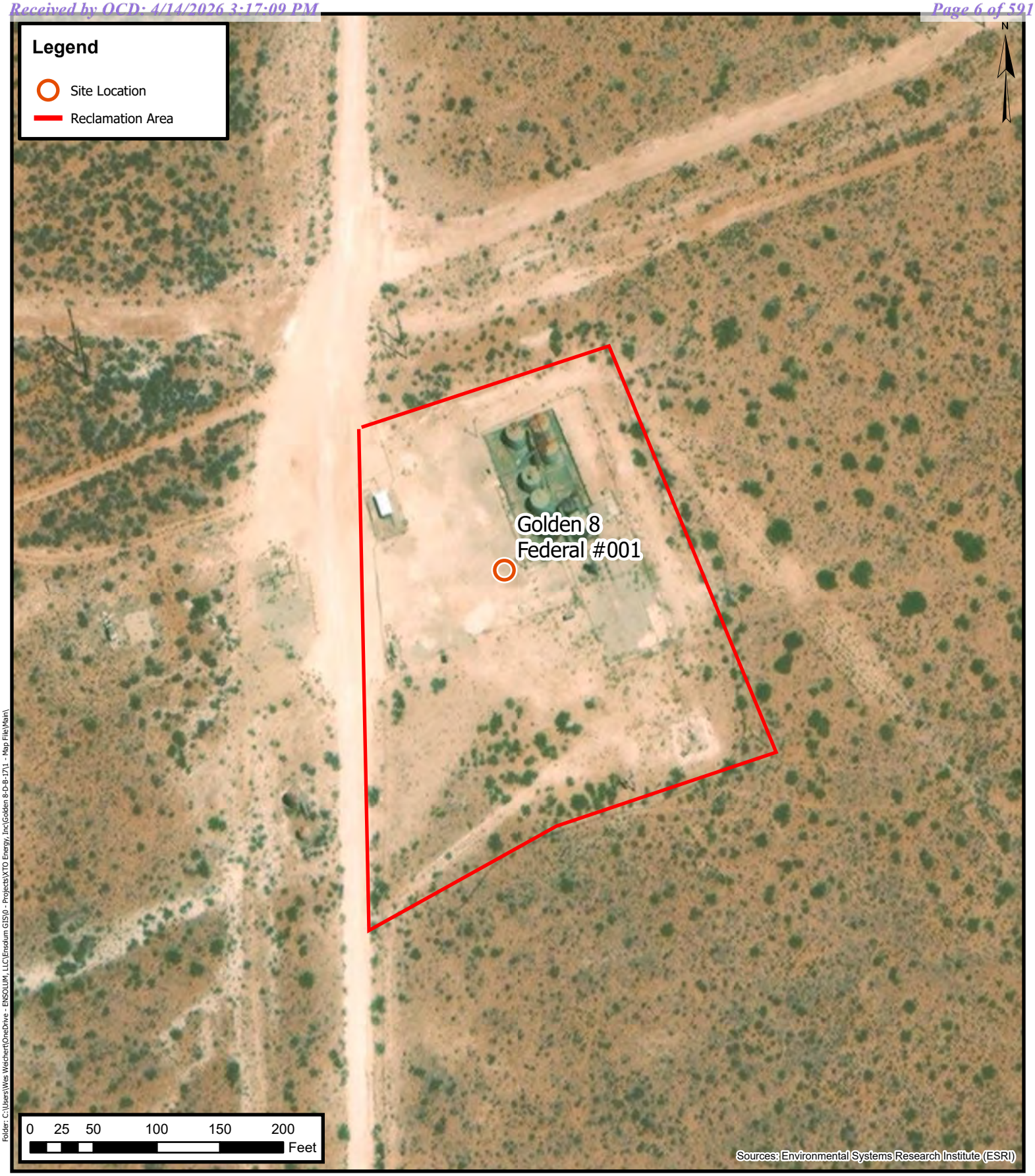

Folder: C:\Users\AvaHagan\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558223 - Golden 8 Federal #001\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Excavation Area Map

XTO Energy, Inc.
Golden 8 Federal #001
Unit K, Section 08, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 1**




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# Well Pad Reclamation Area

XTO Energy, Inc
Golden 8 Federal #001
Unit K, Section 08, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 2**

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# TABLES

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# TABLE 1
## BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
## Golden 8 Federal #001
## XTO Energy, Inc.
## Eddy County, New Mexico

| Sample Designation | Sample Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Reclamation Requirement for the top four feet (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Backfill Soil Sample | | | | | | | | | | |
| BF01 | 03/19/2026 | - | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 144 |

***Notes:***

*bgs: below ground surface*

*mg/kg: milligrams per kilogram*

*NMOCD: New Mexico Oil Conservation Division*

*NMAC: New Mexico Administrative Code*

*BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes*

*< : Indicates result less than the stated laboratory reporting limit*

*GRO: Gasoline Range Organics*

*DRO: Diesel Range Organics*

*ORO: Oil Range Organics*

*TPH: Total Petroleum Hydrocarbon*

*NE: Not Established*

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# APPENDIX A

## Laboratory Analytical Report &

## Chain of Custody Documentation

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 25, 2026

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 03/20/26 10:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
AIMEE COLE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/20/2026 | Sampling Date: | 03/19/2026 |
| Reported: | 03/25/2026 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8 FEDERAL #001 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558223 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.4912491-104.0083542 | | |

### Sample ID: BF01 SURFACE (H261569-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/23/2026 | ND | 2.12 | 106 | 2.00 | 1.11 | |
| Toluene* | <0.050 | 0.050 | 03/23/2026 | ND | 2.41 | 121 | 2.00 | 5.69 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/23/2026 | ND | 2.61 | 130 | 2.00 | 6.29 | |
| Total Xylenes* | <0.150 | 0.150 | 03/23/2026 | ND | 7.81 | 130 | 6.00 | 7.09 | |
| Total BTEX | <0.300 | 0.300 | 03/23/2026 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *109 %* *70.4-141*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **144** | 16.0 | 03/20/2026 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: JF

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/23/2026 | ND | 178 | 89.1 | 200 | 20.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/23/2026 | ND | 181 | 90.4 | 200 | 30.8 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/23/2026 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *71.8 %* *52.4-130*

*Surrogate: 1-Chlorooctadecane* *69.5 %* *39.9-141*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| BS1 | Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|---|---|---|---|
| **Company Name:** | Ensolum, LLC | **BILL TO** | |
| **Project Manager:** | Aimee Cole | **P.O. #:** | CJ |
| **Address:** | 3122 National Parks Hwy | **Company:** | XTO Energy, Inc |
| **City:** | Carlsbad **State:** NM **Zip:** 88220 | **Attn:** | Dale Woodall |
| **Phone #:** | 720-384-7365 **Fax #:** CJ | **Address:** | 3104 E Greene St |
| **Project #:** | 03C1558223 **Project Owner:** XTO Energy, Inc | **City:** | Carlsbad |
| **Project Name:** | Golden 8 Federal Battery #1 | **State:** NM **Zip:** 88220 | |
| **Project Location:** | 32.4912491,-104.0083542 | **Phone #:** | CJ |
| **Sampler Name:** | Chloe James | **Fax #:** | CJ |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab I.D.** | **Sample I.D.** | **Depth (feet)** | **(G)RAB OR (C)OMP.** | **# CONTAINERS** | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | **DATE** | **TIME** | BTEX | TPH | Chloride | | | | | | | | | | | |
| H201309 1 | BF01 | Surface | C | 1 | | | x | | | | | x | | 3/19/2026 | 1355 | x | x | x | | | | | | | | | | |

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

CLS 04/20/2026

| | | | |
|---|---|---|---|
| **Relinquished By:** | Chloe James | **Date:** 3.20.26 **Time:** 1004 | **Received By:** 3-20-26 0800 |
| **Relinquished By:** | | **Date:** 3-20-26 **Time:** 1004 | **Received By:** |
| **Delivered By: (Circle One)** | Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25 | **Observed Temp. °C** -5.1 **Corrected Temp. °C** -5.0 | **Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No |
| **CHECKED BY: (Initials)** | AD | | |

**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:
tmorrissey@ensolum.com, acole@ensolum.com, kthomason@ensolum.com, richard.kotzur@exxonmobli.com

**REMARKS:**
Cost Center: 1080881001 GFCM: 48605000 - Spills
Incident ID: NAB1815749653

**Turnaround Time:** Standard ☒ Rush ☐

Thermometer ID #140
Correction Factor +0.3°C +0.1

**Bacteria (only) Sample Condition**
Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

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# APPENDIX B

## Photographic Log

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**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal #001




Photograph 1 Date :3/19/2026
Description: Backfilled excavation area
View: Northwest




Photograph 2 Date :3/19/2026
Description: Backfilled excavation area
View: Northeast




Photograph 3 Date :3/19/2026
Description: Backfilled excavation area
View: East




Photograph 4 Date :3/19/2026
Description: Well pad overview
View: Southwest

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# APPENDIX C

## January 16, 2026 *Closure Request*

ENSOLUM

January 16, 2026

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

**Re: Closure Request**
**Golden 8 Federal #001**
**Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495**
**Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to update the status of previously remediated releases, document remediation activities completed following the decommissioning of the Golden 8 Federal #001 well pad (Site), and request no further action (NFA) for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1929041495, nAB1633656856, nAB1803638613, and nAB1929041495 associated with the Site. Previously submitted documents related to these eight releases include the following:

- A *Proposed Work Plan* was submitted to the New Mexico Oil Conservation Division (NMOCD) on March 22, 2018 to address multiple releases of crude oil and produced water at the Site. The work was proposed to address six unresolved historic releases (nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1929041495, and nAB1633656856) and one recent release (nAB1803638613).
- A *Closure Request* was submitted on May 25, 2018 to the NMOCD for the seven above-listed incidents addressed in the *Proposed Work Plan*. Closure was approved for Incident Numbers nAB1929041495, nAB1633656856, and nAB1803638613.
- A *Deferral Request – Addendum to the Original Closure Request* was submitted to the NMOCD on January 2, 2020, and deferrals were approved for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, and nAB1422637219.
- A *Deferral Request* was submitted to the NMOCD for Incident Number nAB1929041495 on September 2, 2020, and denied on November 9, 2020, due to inadequate depth to groundwater determination.
- A *Deferral Request Addendum* was submitted on May 7, 2021, for Incident Number nAB1929041495 and subsequently approved.

Following the decommissioning of the Site, soil excavation was completed between March and June 2024 to address outstanding deferrals. Based on excavation activities and soil sampling laboratory analytical results, XTO is requesting NFA for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1929041495, nAB1633656856, nAB1803638613, and nAB1929041495.

## RELEASE BACKGROUND

The Site is located in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (32.4912491°, -104.0083542°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM). Figure 1 illustrates the location of the Site.

Reporting and status details for eight active releases in the NMOCD portal that occurred at the Site between 2010 and 2019 are summarized below.

Incident Number nKMW1035646177 (2RP-0521)

Incident Number nKMW1035646177 (2RP-0521) occurred on June 14, 2010 when a drain line connection on the back of the tank failed due to internal corrosion. Approximately 90 barrels (bbls) of crude oil were released inside the tank battery containment. A vacuum truck was dispatched to the Site to recover free-standing fluid; approximately 80 bbls of crude oil were recovered. A Release Notification and Corrective Action Form C-141 (Form C-141) was received by the NMOCD on June 22, 2010. The release was assigned Incident Number nKMW1035646177 (previously Remediation Permit Number 2RP-0521).

The current NMOCD status for this release is "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator". Details of the release and subsequent remedial actions conducted in response to the incident were included in the May 25, 2018 *Closure Request* and January 2, 2020 *Deferral Request – Addendum to Original Closure Request* submitted for the Site. The *Closure Request* is not available on the NMOCD Permitting website so it is included as Appendix A, and the *Deferral Request – Addendum to Original Closure Request* is attached as Appendix B. The NMOCD Permitting website states under Incident Events that deferral for Incident Number nKMW1035646177 was approved on August 3, 2023 until plugging and abandonment of the location or major modification.

Incident Number nKMW1106629393 (2PR-0633)

On February 16, 2011, a heater-treater malfunctioned causing the tank to overflow. Roughly 310 bbls of crude oil were released inside the tank battery containment and covering approximately 400 square feet of pasture outside the tank battery. A vacuum truck recovered approximately 290 bbls of crude oil. A Form C-141 was received by the NMOCD on March 2, 2011. The release was assigned Incident Number nKMW1106629393 (previously Remediation Permit Number 2PR-0633).

The current NMOCD status of the incident is "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator". Additional release details and remedial actions conducted in response to the incident were included in the May 25, 2018 *Closure Request* (Appendix A) and January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B) submitted for the Site. The NMOCD Permitting website states that deferral for Incident Number nKMW1106629393 was approved on February 1, 2021 in the Incident Events section.

Incident Number nJMW1333053660 (2PR-2082)

The fire tube on the heater-treater developed a leak on November 25, 2013, releasing approximately 6 bbls of crude oil and 15 bbls of produced water inside the tank battery containment. A vacuum truck was dispatched to the Site that recovered roughly 3 bbls of crude oil and 2 bbls of produced water. A Form C-141 was received by the NMOCD on November 26, 2013, and the release was assigned Incident Number nJMW1333053660 (previously Remediation Permit Number 2PR-2082).

Spill and remediation activities regarding this release were summarized in the May 25, 2018 *Closure Request* (Appendix A) and January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B) submitted for the Site. The present NMOCD status the incident is "Deferral Request Approved, Pending submission of Remediation Closure Report from the operator".

Incident Number nAB1422637219 (2PR-2439)

On August 12, 2014, a Victaulic gasket failed on the production header when a normally open valve was shut causing pressure to build and blow out the gasket. Roughly 3 bbls of crude oil and 38 bbls of produced water were released inside the tank battery containment. Approximately 1 bbl of crude oil and 17 bbls of produced water were recovered using a vacuum truck. The gasket was replaced, and the valve was returned to normal. A Form C-141 was received by the NMOCD on August 13, 2014, and the release was assigned Incident Number nAB1422637219 (previously Remediation Permit Number 2PR-2439). The release occurred in the same area as Incident Number nKMW1106629393 (2PR-0633) and Incident Number nJMW1333053660 (2PR-2082).

The May 25, 2018 *Closure Request* (Appendix A) and January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B) submitted for the Site includes details of the remediation activities performed in response to this release. The current NMOCD status of this incident is "Deferral Request Approved, Pending submission of Remediation Closure Report from the operator".

Incident Number nAB1607837012 (2RP-3612)

Incident Number nAB1607837012 refers to the release of 30 bbls of crude oil that occurred on February 1, 2016, when a gasket seal in the heater treater ruptured. Approximately 7 bbls of crude oil were recovered with a vacuum truck. The release affected roughly 3,060 square feet of well pad and approximately 600 square feet of pasture east of the tank battery. A Form C-141 was received by the NMOCD on March 15, 2016, and the release was assigned Incident Number nAB1607837012 (previously Remediation Permit Number 2RP-3612).

Additional remediation activities conducted in response to the incident were included in the May 25, 2018 *Closure Request* submitted for the Site. The *Closure Request* is not available on the NMOCD Permitting website so it is included as Appendix A. As discussed in the January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B), the NMOCD approved the closure of this incident in an email to the operator at the time of the release (Bopco, L.P.) dated June 6, 2018. The incident has a current NMOCD status of "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator".

Incident Number nAB1633656856 (2RP-4017)

Incident Number nAB1633656856 occurred on November 26, 2016, when an unused three-phase vessel was refitted and returned to operation. Approximately 32 bbls of crude oil was released from the vessel through a pressure relief valve and leaking connections. A vacuum truck recovered approximately 30 bbls of crude oil. The release affected roughly 3,168 square feet of caliche pad with containment and misted the pasture to the east. A Form C-141 was submitted to the NMOCD on November 29, 2016, and the release was assigned Incident Number nAB1633656856 (2RP-4017).

The May 25, 2018 *Closure Request* (Appendix A) submitted for the Site includes details of the remediation activities performed in response to this release. The January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B) discusses the approval of closure for this incident by the NMOCD in an email to the former operator (Bopco, L.P.) dated June 6, 2018. The incident has a

current NMOCD status of "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator".

Incident Number nAB1803638613 (2RP-4601)

On January 18, 2018, a dump valve failed causing the release of roughly 1 bbl of crude oil through the facility flare. A small amount of the fluids exiting the flare ignited. The flare fire impacted approximately 250 square feet of ground within the earthen berm and oil misted roughly 2,600 square feet of the pasture south of the well pad. MicroBlaze® was applied to the affected area. A Form C-141 was received by the NMOCD on February 2, 2018, and the release was assigned Incident Number nAB1803638613 (previously Remediation Permit Number 2RP-4601).

Additional details of the remediation activities performed in response to this release were summarized in the May 25, 2018 *Closure Request* (Appendix A) submitted for the Site. The NMOCD approved the closure of this incident in an email to the former operator (Bopco, L.P.) dated June 6, 2018, as discussed in the January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B). The incident has a current NMOCD status of "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator".

Incident Number nAB1929041495 (2PR-5672)

On September 12, 2019, internal corrosion from the bottom of the heater treater resulted in the release of approximately 0.01 barrels (bbls) of crude oil and approximately 5.79 bbls of produced water into the earthen berm surrounding the battery. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 0.01 bbls of crude oil and approximately 4.99 bbls of produced water were recovered from within the dirt berm area. XTO reported the release to the NMOCD on a Form C-141 on September 27, 2019, and the release was subsequently assigned Incident Number nAB1929041495 (previously Remediation Permit Number 2RP-5672).

A *Deferral Request* detailing delineation and excavation sampling and remediation activities completed at the Site was submitted to the NMOCD for Incident Number nAB1929041495 on September 2, 2020 and denied on November 9, 2020 due to inadequate depth to groundwater determination. A *Deferral Request Addendum* providing an update to depth to groundwater determination activities was submitted on May 7, 2021 for Incident Number nAB1929041495 and approved by the NMOCD on June 25, 2021. The *Deferral Request* and *Deferral Request Addendum* for Incident Number nAB1929041495 are attached as Appendix C and Appendix D, respectively.

## CLOSURE CRITERIA

As described in the original *Closure Request* prepared for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, and nAB1803638613, the original site work and subsequent sampling occurred prior to promulgation of the August 14, 2018 spill response requirements listed in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Therefore, the closure standards established for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, and nAB1803638613 that occurred prior to August 14, 2018 were as follows:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

- Total Petroleum Hydrocarbons (TPH): 5,000 mg/kg
- Chloride: 600 mg/kg

As discussed in the *Deferral Request* and *Deferral Request Addendum* submitted for Incident Number nAB1929041495, this release occurred following the implementation of Table 1 from 19.15.29.12 of the NMAC so different Closure Criteria were applied for this incident. The Site is located in a medium potential karst designation area. Since the release and remediation activities occurred prior to the implementation of the *Karst Potential Occurrence Zones Public Notice*, the following Closure Criteria were applied to the release.

- Benzene: 10 mg/kg
- BTEX: 50 mg/kg
- 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

The above-listed Closure Criteria was applied to the Site during the 2024 remediation activities of the deferred releases. A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the Site per NMAC 19.15.29.13.D (1).

## REMEDIATION CLOSURE STATUS UPDATES

As discussed above, assessment and remediation activites for Incident Numbers nAB1607837012, nAB1633656856, and nAB1803638613 were summarized in the May 25, 2018 *Closure Request* submitted for the Site. The *Closure Request* is not available on the NMOCD Permitting website so it is included as Appendix A. The January 2, 2020 *Deferral Request – Addendum to Original Closure Request* (Appendix B) states that the NMOCD approved the closure of these incidents in an email to the operator at the time of the release (Bopco, L.P.) dated June 6, 2018. XTO does not have access to this email, and it is not available on the NMOCD Permitting website. Both reports are attached for review to confirm that all three incidents were remediated to the appropriate closure standards at the time of the releases. The incidents currently have a NMOCD status of “Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator”. XTO requests that the status of Incident Numbers nAB1607837012, nAB1633656856, and nAB1803638613 be updated to “Remediation Closure Report Approved” based on the information provided in Appendices A and B.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

To address deferrals for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and nAB1929041495, soil excavation was completed at the former central tank battery and former heater treater and separator equipment area following decommissioning of the Site. Figure 2 illustrates the estimated deferral areas for the five releases. Between March and June 2024, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the deferral areas as indicated by visible staining and field screening activities. Two excavations were performed using heavy equipment. The northern excavation encompassed deferred Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and the southern excavation addressed deferred Incident Number nAB1929041495. To direct excavation activities, Ensolum personnel field screened the soil samples for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavations. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.

Confirmation soil samples FS01, FS02, FS20 through FS36 and FS27A were collected from the floor of the northern excavation at depths ranging from 4 feet to 18 feet bgs. Confirmation sidewall soil samples SW01 through SW04, SW11 through SW21, and SW25 through SW32 were collected from the sidewalls of the northern excavation at depths ranging from ground surface to 10 feet bgs. The soil surrounding floor samples FS26 (collected on May 2, 2024) and FS27 (sampled on April 4, 2024) was over-excavated in localized areas due to Closure Criteria exceedances. Sidewall samples SW01 through SW04 and SW11 through SW18 were also over-excavated based on analytical results. The northern excavation extent and excavation soil sample locations are presented on Figure 3.

Confirmation soil samples FS03 through FS19, FS05A, FS12A and FS15A were collected from the floor of the southern excavation at depths ranging from 2 feet to 15 feet bgs. Confirmation sidewall soil samples SW05 through SW10 and SW22 through SW24 were collected from the sidewalls of the southern excavation at depths ranging from ground surface to 4 feet bgs. The majority of the excavation was completed to a depth of 4 feet bgs; however, floor samples FS05, FS12, and FS15 were over-excavated to greater depths in limited areas based on laboratory analytical results. Similarly, sidewall samples SW08 and SW09 were also over-excavated based on Closure Criteria exceedances. The southern excavation extent and confirmation soil sample locations are illustrated on Figure 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico. All samples were submitted for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

The final floor excavation extent of the northern excavation measured approximately 3,800 square feet, and the ultimate excavation extent of the floor of the southern excavation was calculated at roughly 3,275 square feet. A total of approximately 2,860 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill in Hobbs, New Mexico. Photographic documentation of the deferral remediation activities is included in Appendix E.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from the 5-point composite floor and sidewall samples collected from the final excavation extents report COC concentrations compliant with the Closure Criteria for the Site and the reclamation requirement in the top four feet of soil. Laboratory analytical results from the 2024 remediation activities completed at the deferral areas are summarized in Table 1, and laboratory analytical reports from the 2024 sampling events are included in Appendix F.

## RECLAMATION PLAN

The excavations were backfilled with caliche in the deeper portions of the remediation excavation with material purchased locally. The top four feet of the remediation excavations were backfilled with locally procured topsoil, and the surface of the reclaimed area was chopped/roughened to help prevent future erosion by reducing runoff velocity, trapping sediment, and promoting water retention for revegetation.

The well pad was seeded during Fall 2024 with BLM sandy sites seed mix #2. A Reclamation Summary detailing reclamation activities completed at the Site as well as proposed vegetation monitoring activities was submitted to the BLM on October 21, 2024 (Appendix G). Upon completion of revegetation, a Final Abandonment Notice (FAN), Form 3160-5, will be submitted to the BLM for final inspection and release.

## CLOSURE REQUEST

Site assessment, delineation soil sampling, excavation, excavation soil sampling activities were conducted at the Site to address impacted soil from multiple crude oil and produced water releases that occurred between 2010 and 2019 (Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495). As discussed above, remediation closure was previously approved for Incident Numbers nAB1607837012, nAB1633656856, and nAB1803638613; however, the status for these incidents is currently listed as “Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator”. XTO requests that the statuses of these three incidents be updated to “Remediation Closure Report Approved” based on the information provided in Appendices A and B.

Deferrals for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and nAB1929041495 were previously approved, and additional excavation occurred in the area of these releases following the decommissioning of the Site. A total of approximately 2,860 cubic yards of soil was removed from the Site during the excavation of the prior deferred areas. Impacted soil was excavated to the reclamation requirement within the top four feet of soil and to Closure Criteria at depths greater than 4 feet bgs. The excavations were backfilled, the well pad was recontoured to match the surrounding topography, and the well pad was reseeded with BLM sandy sites seed mix #2 in October 2024.

XTO believes the remedial actions conducted at the Site are protective of human health, the environment, and groundwater. As such, XTO requests no further action (NFA) for Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495.

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

Sincerely,
**Ensolum, LLC**

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

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

cc: Dale Woodall, XTO
Richard Kotzure, XTO
Bureau of Land Management

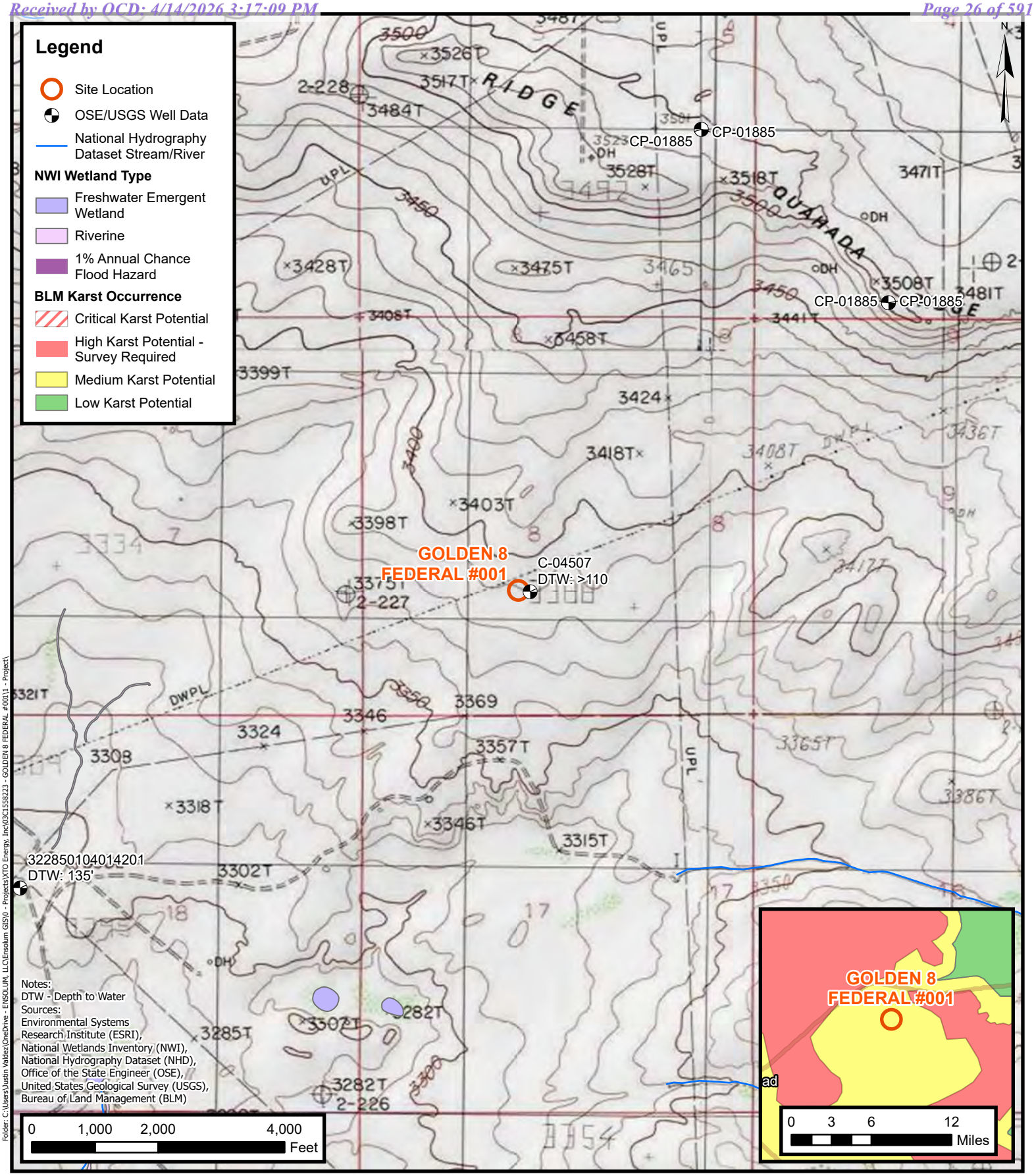
Appendices:

Figure 1 Site Receptor Map
Figure 2 Deferral Locations – Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and nAB1929041495
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

| | |
|---|---|
| Appendix A | May 25, 2018 *Closure Request* (Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856 and nAB1803638613) |
| Appendix B | January 2, 2020, *Deferral Request – Addendum to the Original Closure Request* (Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, and nAB1422637219) |
| Appendix C | September 2, 2020, *Deferral Request* (Incident Number nAB1929041495) |
| Appendix D | May 7, 2021, *Deferral Request Addendum* (Incident Number nAB1929041495) |
| Appendix E | Photographic Log |
| Appendix F | 2024 Laboratory Analytical Reports and Chain-of-Custody Documentation |
| Appendix G | October 21, 2024, *Reclamation Summary* |

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# FIGURES



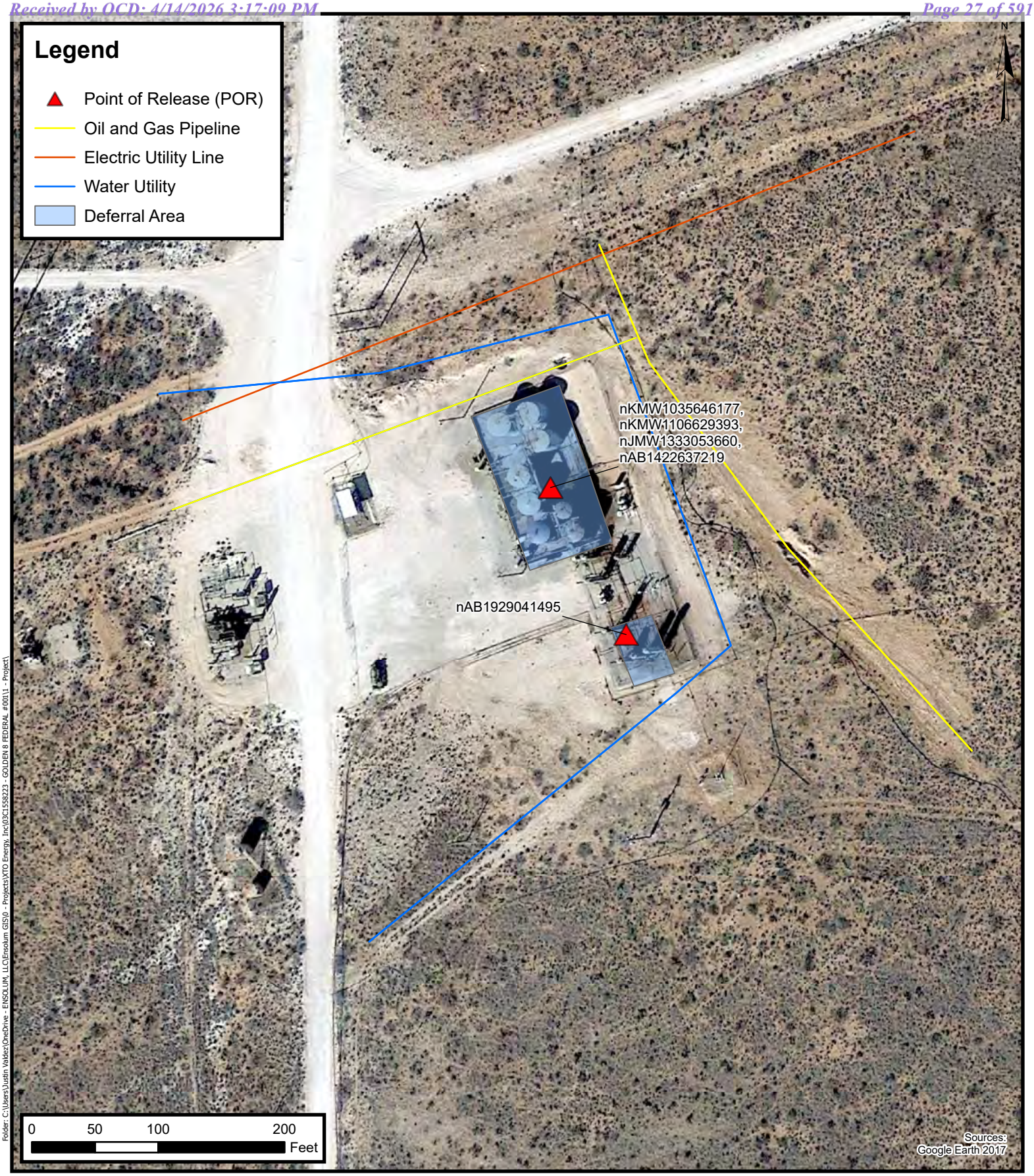

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# Site Receptor Map

XTO Energy, Inc
GOLDEN 8 FEDERAL #001
Incident Number: nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, nAB1607837012, nAB1633656856, nAB1803638613, and nAB1929041495
Unit K, Section 8, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 1**

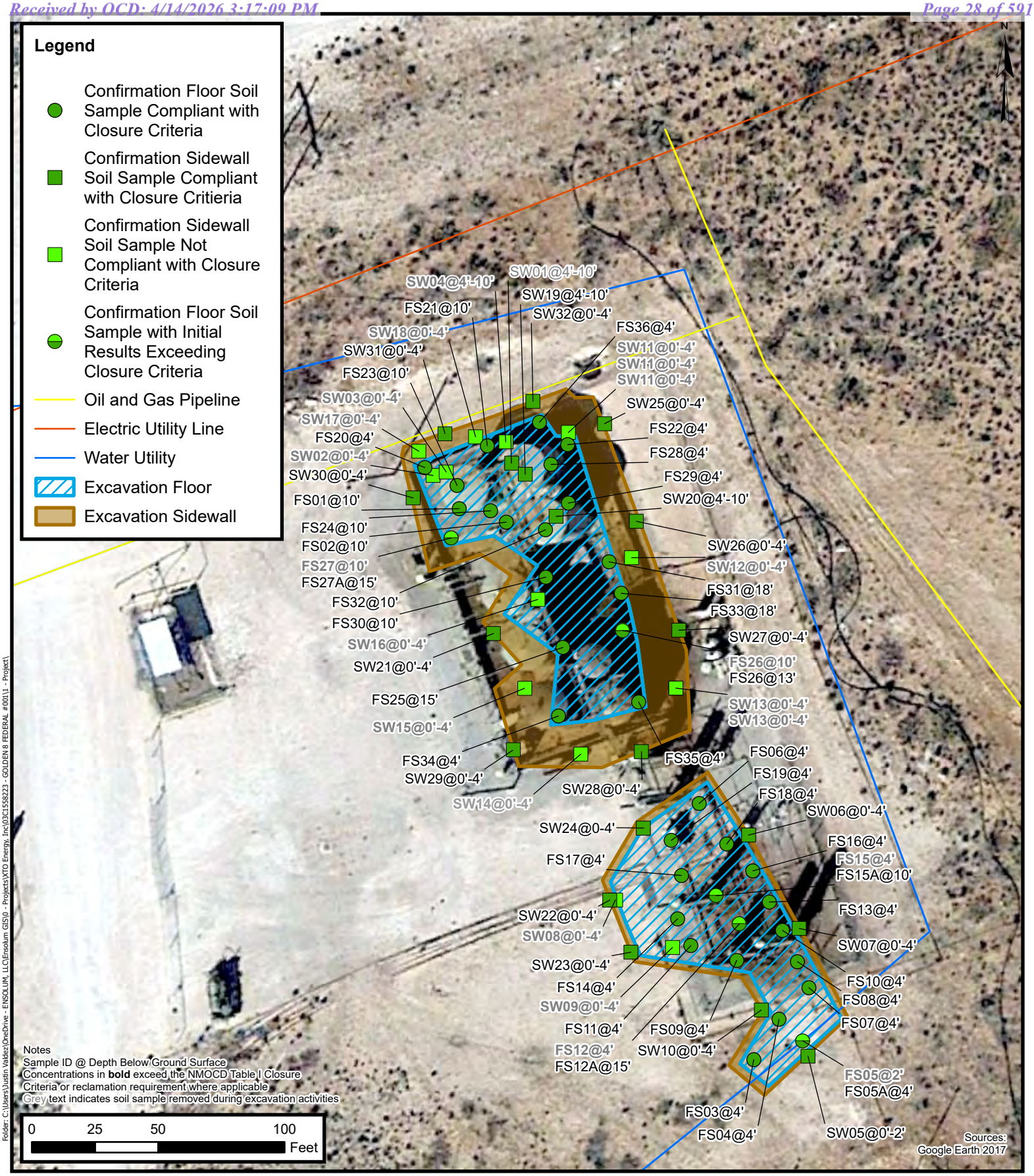



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# Deferral Locations

XTO Energy, Inc
GOLDEN 8 FEDERAL #001
Incident Numbers: nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and nAB1929041495
Unit K, Section 8, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 2**




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# Excavation Soil Sample Locations

XTO Energy, Inc
GOLDEN 8 FEDERAL #001
Incident Numbers: nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, and nAB1929041495
Unit K, Section 8, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 3**

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# TABLE

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# TABLE 1
## SOIL SAMPLE ANALYTICAL RESULTS
## Golden 8 Federal #001
## XTO Energy, Inc
## Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Reclamation Requirement (NMAC 19.15.29.13.D) | | | NE | NE | NE | NE | NE | NE | 100 | 600 |
| Confirmation Soil Samples - Northern Excavation | | | | | | | | | | |
| FS 01 | 3/21/2024 | 10 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 192 |
| FS 02 | 3/22/2024 | 10 | <0.050 | <0.300 | <10.0 | 351 | 88.6 | 351 | 440 | 608 |
| FS 20 | 5/3/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 |
| FS 21 | 4/3/2024 | 10 | <0.050 | <0.300 | <10.0 | 760 | 170 | 760 | 930 | 976 |
| FS 22 | 4/3/2024 | 4 | <0.050 | <0.300 | <10.0 | 56.0 | 17.0 | 56.0 | 73.0 | 272 |
| FS 23 | 4/3/2024 | 10 | <0.050 | <0.300 | <10.0 | 283 | 70.3 | 283 | 353 | 784 |
| FS 24 | 5/2/2024 | 10 | <0.050 | <0.300 | <10.0 | 360 | 122 | 360 | 482 | 816 |
| FS 25 | 5/2/2024 | 15 | <0.050 | <0.300 | <10.0 | 25.0 | <10.0 | 25.0 | 25.0 | 416 |
| ~~FS 26~~ | ~~5/2/2024~~ | ~~10~~ | ~~<0.050~~ | ~~<0.300~~ | ~~37.1~~ | ~~2,430~~ | ~~548~~ | ~~**2,430**~~ | ~~**2,978**~~ | ~~224~~ |
| FS 26 | 6/3/2024 | 13 | <0.050 | <0.300 | <10.0 | 39.7 | <10.0 | 39.7 | 39.7 | 320 |
| ~~FS 27~~ | ~~4/4/2024~~ | ~~10~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~1,260~~ | ~~245~~ | ~~**1,260**~~ | ~~1,505~~ | ~~352~~ |
| FS 27A | 4/11/2024 | 15 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 656 |
| FS 28 | 5/3/2024 | 4 | <0.050 | <0.300 | <10.0 | 187 | 73.4 | 187 | 260 | 224 |
| FS 29 | 4/4/2024 | 4 | <0.050 | <0.300 | <10.0 | 56.5 | <10.0 | 56.5 | 56.5 | 240 |
| FS 30 | 5/2/2024 | 10 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,070 |
| FS 31 | 4/4/2024 | 18 | <0.050 | <0.300 | <10.0 | 11.0 | <10.0 | 11.0 | 11.0 | 576 |
| FS 32 | 5/2/2024 | 10 | <0.050 | <0.300 | <10.0 | 246 | 70.0 | 246 | 316 | 544 |
| FS 33 | 4/12/2024 | 18 | <0.050 | <0.300 | <10.0 | 12.9 | <10.0 | 12.9 | 12.9 | 640 |
| FS 34 | 4/12/2024 | 4 | <0.050 | <0.300 | <10.0 | 36.6 | 10.9 | 36.6 | 47.5 | 544 |
| FS 35 | 4/12/2024 | 4 | <0.050 | <0.300 | <10.0 | 71.5 | 19.5 | 71.5 | 91.0 | 304 |
| FS 36 | 5/3/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| ~~SW01~~ | ~~3/22/2024~~ | ~~4-10~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~1,060~~ |
| ~~SW02~~ | ~~3/22/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~937~~ | ~~556~~ | ~~937~~ | ~~**1,493**~~ | ~~144~~ |
| ~~SW03~~ | ~~3/22/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~971~~ | ~~603~~ | ~~971~~ | ~~**1,574**~~ | ~~112~~ |
| ~~SW04~~ | ~~3/22/2024~~ | ~~4-10~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~1,920~~ | ~~523~~ | ~~**1,920**~~ | ~~2,443~~ | ~~32.0~~ |
| ~~SW 11~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~150~~ | ~~103~~ | ~~150~~ | ~~**253**~~ | ~~64.0~~ |
| ~~SW 11~~ | ~~4/5/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~102~~ | ~~30.5~~ | ~~102~~ | ~~**133**~~ | ~~64.0~~ |
| ~~SW 11~~ | ~~4/12/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~382~~ | ~~264~~ | ~~382~~ | ~~**646**~~ | ~~96.0~~ |

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# TABLE 1
## SOIL SAMPLE ANALYTICAL RESULTS
## Golden 8 Federal #001
## XTO Energy, Inc
## Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Reclamation Requirement (NMAC 19.15.29.13.D) | | | NE | NE | NE | NE | NE | NE | 100 | 600 |
| ~~SW 12~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~1,070~~ | ~~382~~ | ~~1,070~~ | ~~**1,452**~~ | ~~320~~ |
| ~~SW 13~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~129~~ | ~~168~~ | ~~129~~ | ~~**297**~~ | ~~128~~ |
| ~~SW 13~~ | ~~4/12/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~179~~ | ~~184~~ | ~~179~~ | ~~**363**~~ | ~~80.0~~ |
| ~~SW 14~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~597~~ | ~~197~~ | ~~597~~ | ~~**794**~~ | ~~960~~ |
| ~~SW 15~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~1340~~ | ~~508~~ | ~~1,340~~ | ~~**1,848**~~ | ~~432~~ |
| ~~SW 16~~ | ~~3/28/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<50.0~~ | ~~2,980~~ | ~~1,300~~ | ~~2,980~~ | ~~**4,280**~~ | ~~208~~ |
| ~~SW 17~~ | ~~4/3/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~142~~ | ~~45.3~~ | ~~142~~ | ~~**187**~~ | ~~48.0~~ |
| ~~SW 18~~ | ~~4/3/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~1090~~ | ~~595~~ | ~~1,090~~ | ~~**1,685**~~ | ~~64.0~~ |
| SW 19 | 4/3/2024 | 4-10 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 400 |
| SW 20 | 4/3/2024 | 4-10 | <0.050 | <0.300 | <10.0 | 107 | 18.4 | 107 | 125 | 560 |
| SW 21 | 4/5/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 |
| SW 25 | 5/2/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 66.3 | <10.0 | 66.3 | 66.3 | 80.0 |
| SW 26 | 5/2/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 112 |
| SW 27 | 5/2/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 240 |
| SW 28 | 5/2/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| SW 29 | 5/2/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 |
| SW 30 | 5/3/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SW 31 | 5/3/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SW 32 | 5/3/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| Confirmation Soil Samples - Southern Excavation | | | | | | | | | | |
| FS 03 | 3/26/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 624 |
| FS 04 | 3/26/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 576 |
| ~~FS 05~~ | ~~3/26/2024~~ | ~~2~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~<10.0~~ | ~~**608**~~ |
| FS 05 | 5/2/2024 | 4 | <0.050 | <0.300 | <10.0 | 43.0 | 48.5 | 43.0 | 91.5 | 672 |
| FS 06 | 3/26/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 64.0 |
| FS 07 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 336 |
| FS 08 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 432 |
| FS 09 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 853 | 234 | 853 | 1,087 | 800 |
| FS 10 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 54.4 | 41.0 | 54.4 | 95.4 | 432 |
| FS 11 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 25.0 | <10.0 | 25.0 | 25.0 | 736 |

ENSOLUM

# TABLE 1
## SOIL SAMPLE ANALYTICAL RESULTS
## Golden 8 Federal #001
## XTO Energy, Inc
## Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Table I Closure Criteria (NMAC 19.15.29)** | | | **10** | **50** | **NE** | **NE** | **NE** | **1,000** | **2,500** | **20,000** |
| **Reclamation Requirement (NMAC 19.15.29.13.D)** | | | **NE** | **NE** | **NE** | **NE** | **NE** | **NE** | **100** | **600** |
| ~~FS 12~~ | ~~3/27/2024~~ | ~~4~~ | ~~<0.050~~ | ~~6.75~~ | ~~74.9~~ | ~~2,250~~ | ~~411~~ | ~~**2,325**~~ | ~~**2,736**~~ | ~~784~~ |
| FS 12A | 4/11/2024 | 15 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 912 |
| FS 13 | 3/27/2024 | 4 | <0.050 | <0.300 | <50.0 | 706 | 336 | 706 | 1,042 | 768 |
| FS 14 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 141 | 28.0 | 141 | 169 | 752 |
| ~~FS 15~~ | ~~3/27/2024~~ | ~~4~~ | ~~<0.050~~ | ~~12.1~~ | ~~52.8~~ | ~~1,480~~ | ~~225~~ | ~~**1,533**~~ | ~~1,758~~ | ~~256~~ |
| FS 15A | 4/5/2024 | 10 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 1,180 |
| FS 16 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 60.2 | 49.8 | 60.2 | 110 | 16.0 |
| FS 17 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 656 |
| FS 18 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 16.3 | 16.8 | 16.3 | 33.1 | 64.0 |
| FS 19 | 3/27/2024 | 4 | <0.050 | <0.300 | <10.0 | 378 | 119 | 378 | 497 | 256 |
| SW 05 | 3/26/2024 | 0-2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 |
| SW 06 | 3/26/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| SW 07 | 3/27/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 19.4 | 17.2 | 19.4 | 36.6 | 32.0 |
| ~~SW 08~~ | ~~3/27/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~422~~ | ~~187~~ | ~~422~~ | ~~**609**~~ | ~~208~~ |
| ~~SW 09~~ | ~~3/27/2024~~ | ~~0-4~~ | ~~<0.050~~ | ~~<0.300~~ | ~~<10.0~~ | ~~243~~ | ~~206~~ | ~~243~~ | ~~**449**~~ | ~~272~~ |
| SW 10 | 3/27/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 37.0 | 37.2 | 37.0 | 74.2 | 368 |
| SW 22 | 4/5/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 17.9 | <10.0 | 17.9 | 17.9 | 416 |
| SW 23 | 4/5/2024 | 0-4 | <0.050 | <0.300 | <10.0 | 51.7 | <10.0 | 51.7 | 51.7 | 400 |
| SW 24 | 4/11/2024 | 0-4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

~~Grey~~ text indicates soil sample removed during excavation activities

ENSOLUM

# APPENDIX A

## May 25, 2018 *Closure Request* (Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, nAB1422637219, NAB1607837012, NAB1633656856 and NAB1803638613)

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
3300 North A Street
Building 1, Suite 103
Midland, Texas 79705
432-704-5178

May 25, 2018

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

**RE: Closure Request**
**Golden 8 Federal Central Tank Battery #1**
**2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601**
**XTO Energy, Inc.**
**Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents this letter report detailing excavation and soil sampling activities at the Golden 8 Federal Central Tank Battery #1 (Site). The work was conducted according to a *Proposed Work Plan* submitted by LTE to the New Mexico Oil Conservation Division (NMOCD) on March 22, 2018 to address multiple releases of crude oil and produced water at the Site. The work was proposed to address six unresolved historic releases (2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017) and one recent release (2RP-4601). The *Proposed Work Plan* documented preliminary sampling conducted by XTO to investigate historical releases, proposed more sampling to continue site investigation, and recommended excavation of any soil identified as exceeding NMOCD regulatory standards. XTO has completed that work and, based on the results of the investigative and confirmation sampling presented in this report, requests no further action for these release events.

## BACKGROUND

The Site is located in northeast quarter of the southwest quarter of Section 8 within Township 21 South and Range 29 East in Eddy County, New Mexico (Figure 1). Depth to groundwater at the Site is estimated to be greater than 200 feet below ground surface (bgs) based on the nearest water well data and known aquifer properties. The nearest permitted water well is CP 00516, located approximately 1.41 miles west-southwest of the Site with a depth to groundwater of 205 feet and total depth of 275 feet. The closest surface water to the Site is a seasonal playa lake located approximately 4,366 feet to the southeast of the Site. Based on these criteria, the NMOCD site ranking for remediation action levels is a 0 and the following remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region, LTE applied a site-specific chloride action level of 600 mg/kg.

The releases affected areas on and off the well pad. Five of the releases occurred at the tank battery where most of the fluids were contained in an earthern berm. A release at the heater treater was contained in a lined containment. The most recent release was the result of a fire at the flare that

caused a mist to settle over the pasture off site. As reported on the C-141s, all standing fluids were recovered during initial response activities. The releases and the areas they impacted are summarized as follows:

| Release Permit Number | Date of Release | Oil Released (bbls) | Produced Water Released (bbls) | Description of Impacted Area |
|---|---|---|---|---|
| 2RP-521 | 6/14/2010 | 90 | 0 | Inside tank battery containment |
| 2RP-633 | 2/16/2011 | 310 | 0 | Inside tank battery containment and approximately 400 $ft^2$ of pasture outside the tank battery |
| 2RP-2082 | 11/25/2013 | 6 | 15 | Inside tank battery containment |
| 2RP-2439 | 8/12/2014 | 3 | 38 | Inside tank battery containment |
| 2RP-3612 | 2/1/2016 | 30 | 0 | Approximately 3,060 $ft^2$ of the well pad at the heater treater and approximately 600 $ft^2$ of pasture east of the tank battery |
| 2RP-4017 | 11/26/2016 | 32 | 0 | Approximately 3,168 $ft^2$ of the pad near the 2-phase vessel and mist over the pasture east of the well pad |
| 2RP-4601 | 1/18/2018 | <1 | 0 | Mist over approximately 2,600 $ft^2$ of pasture south of the well pad |

Notes: bbls – barrels
$ft^2$ – square feet

The most recent release occurred after LTE conducted preliminary investigation of the historical releases. In the *Proposed Work Plan*, LTE presented initial sampling results, and used those results to generate a plan for additional delineation sampling and excavation of any identified impacted soil. The intent of the work plan was to address all of the releases at the Site in one effort to simplify report submittals.

## ADDITIONAL DELINEATION SOIL SAMPLING

LTE collected additional soil samples on May 8, 2018 to address potential impact to soil east of the well pad to further address releases identified as 2RP-633, 2RP-3612, and 2RP-4017. No visual or olfactory evidence of the release was observed in the off-pad area. To eliminate the effects from

weathering and natural degradation of contaminants at the ground surface, subsurface samples were collected from each sample location at roughly 0.5 feet to 1 foot bgs by hand auger. Field screening was conducted using a photo-ionization detector (PID), and since visual, olfactory, and field screening observations did not suggest presence of impact, boreholes were not advanced deeper. LTE collected the soil samples directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were delivered at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to a certified laboratory, for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-motor oil range organics (MRO) by USEPA Method 8015, and chloride by USEPA Method 300.0. Sample locations are depicted on Figure 2 and denoted with a "BH" sample identifier. No additional areas requiring excavation were identified during the delineation sampling event.

**EXCAVATION**

As specified in the *Proposed Work Plan*, excavation occurred where preliminary investigative samples exceeded NMOCD regulatory standards for TPH, and/or chloride. Two areas on the well pad west and southwest of the tank battery and one area in the pasture south of the well pad were excavated as shown on Figure 2. In an effort to delineate hydrocarbon and chloride impacts to soil and direct excavation activities, LTE screened soil samples using a PID and Hach® chloride QuanTab® test strips. The northernmost excavation was approximately 57 square feet in area and 1.5 feet deep. Approximately 3.5 cubic yards of impacted soil were removed via backhoe or by hand digging when within 10 feet of production equipment or pipelines. The excavation southwest of the tank battery was approximately 612 square feet in area with a maximum depth of 7 feet. Approximately 93 cubic yards of impacted soil was removed from this location. One half to one foot of impacted soil was removed from by scraping the ground surface in the area south of the well pad that was affected by misting. Approximately 40 cubic yards of soil were removed from the scraped area. All impacted soil removed from the Site was transported and properly disposed of at Lea Land Landfarm, located in Eunice, New Mexico.

LTE collected excavation confirmation soil samples from each excavation as shown on Figure 1. Discrete soil samples were collected from the floor of the excavations to characterize each area and confirm all impacted soil had been removed. Sidewall samples were collected when depth of the excavation exceeded2 feet. Soil samples were stored on ice and delivered to a certified laboratory under strict chain-of-custody procedures. The excavation confirmation soil samples were analyzed for BTEX by EPA Method 8021, TPH – GRO, DRO, and MRO by EPA Method 8015B, and chloride by EPA Method 300.0.

**RESULTS**

Laboratory analytical results from final investigative soil samples and excavation confirmation soil samples indicated no samples exceed NMOCD remediation action levels for BTEX, TPH, or chloride concentrations. BTEX was not detected in any sample. TPH ranged from non-detect to 4,500 mg/kg. The highest concentration was identified in soil sample SS05 collected in the misted area south of the well pad. Chloride ranged from non-detect to 430 mg/kg. Residual chloride

concentrations were highest on the well pad south of the tank battery. Laboratory analytical results are presented on Figure 2 and on Table 1. The complete laboratory analytical reports are attached.

**CONCLUSIONS**

Six historical releases and one recent release were investigated at this Site by collecting soil samples in locations affected by produced water and crude oil releases. The investigative sampling results identified three areas requiring remediation. Impacted soil was excavated from those areas and disposed of at an NMOCD-approved disposal facility. Subsequent confirmation soil samples collected from the excavations did not exceed NMOCD regulatory standards for BTEX, TPH, or chloride. XTO has successfully removed the impacted soil at the Site and requests no further action for these releases.

Upon approval of this request, XTO will backfill the excavations with material purchased locally and recontour the Site to match native topography. Caliche will be used on the well pad and soil matching native surroundings will be used off site. XTO will re-seed the area south of the well pad with Bureau of Land Management seed mix #2 via drill or broadcast method. Updated NMOCD Forms C-141 are included with Attachment 1.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at aager@ltenv.com or Kyle Littrell at XTO at (970) 317-1867 or Kyle_Littrell@xtoenergy.com.

Sincerely,
LT ENVIRONMENTAL, INC.

Ashley L. Ager

Ashley L. Ager, M.S., P.G.
Senior Geologist

Attachments:

| | |
|---|---|
| Figure 1 | Site Location Map |
| Figure 2 | Site Sample Locations |
| Table 1 | Soil Analytical Results |
| Attachment 1 | Laboratory Analytical Reports |
| Attachment 2 | Form C-141s |

Cc: Kyle Littrell, XTO
Mike Bratcher, NMOCD
Crystal Weaver, NMOCD
Shelly Tucker, BLM
Jim Amos, BLM

**FIGURES**

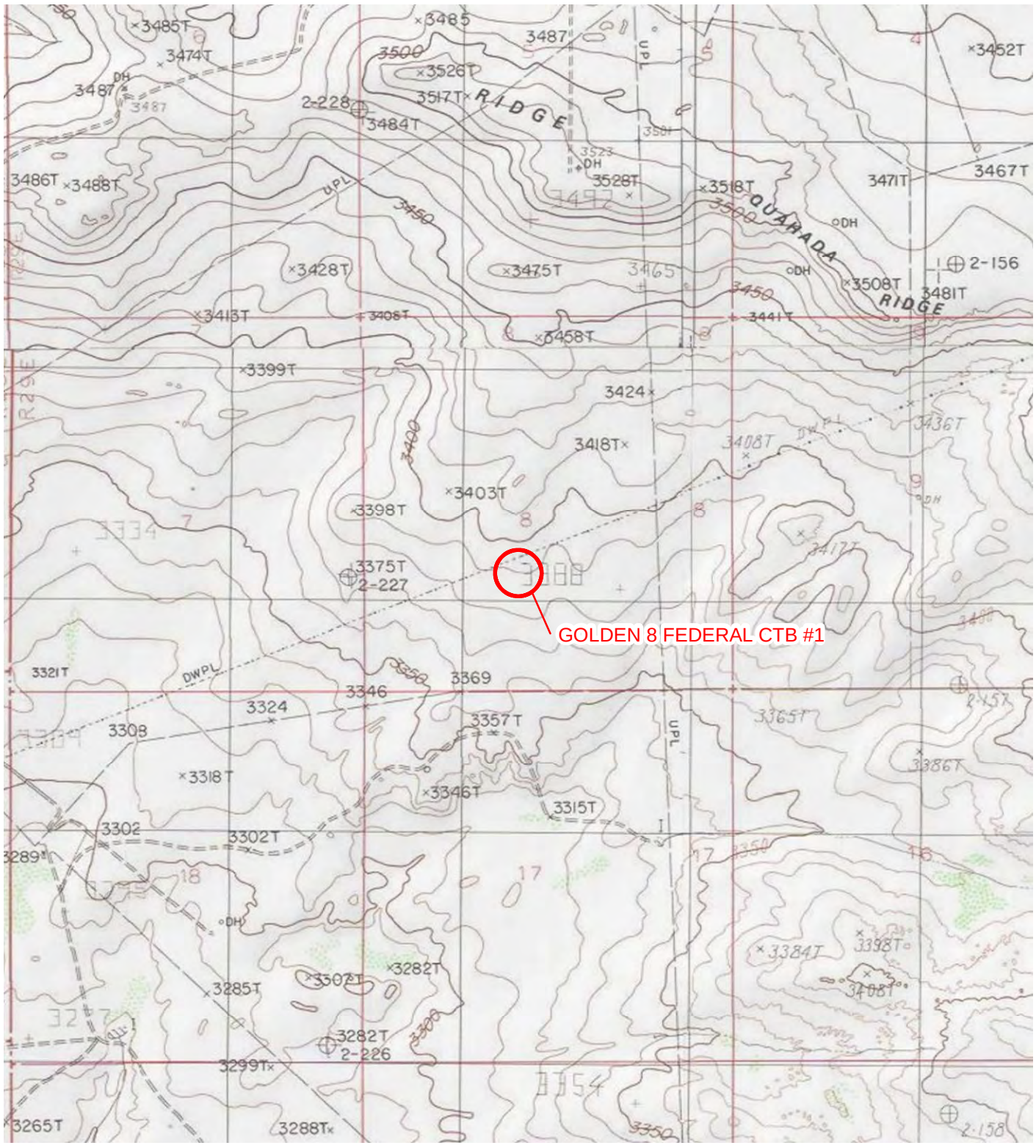



IMAGE COURTESY OF ESRI/USGS

**LEGEND**

SITE LOCATION

CTB: CENTRAL TANK BATTERY

0 2,000 4,000

Feet

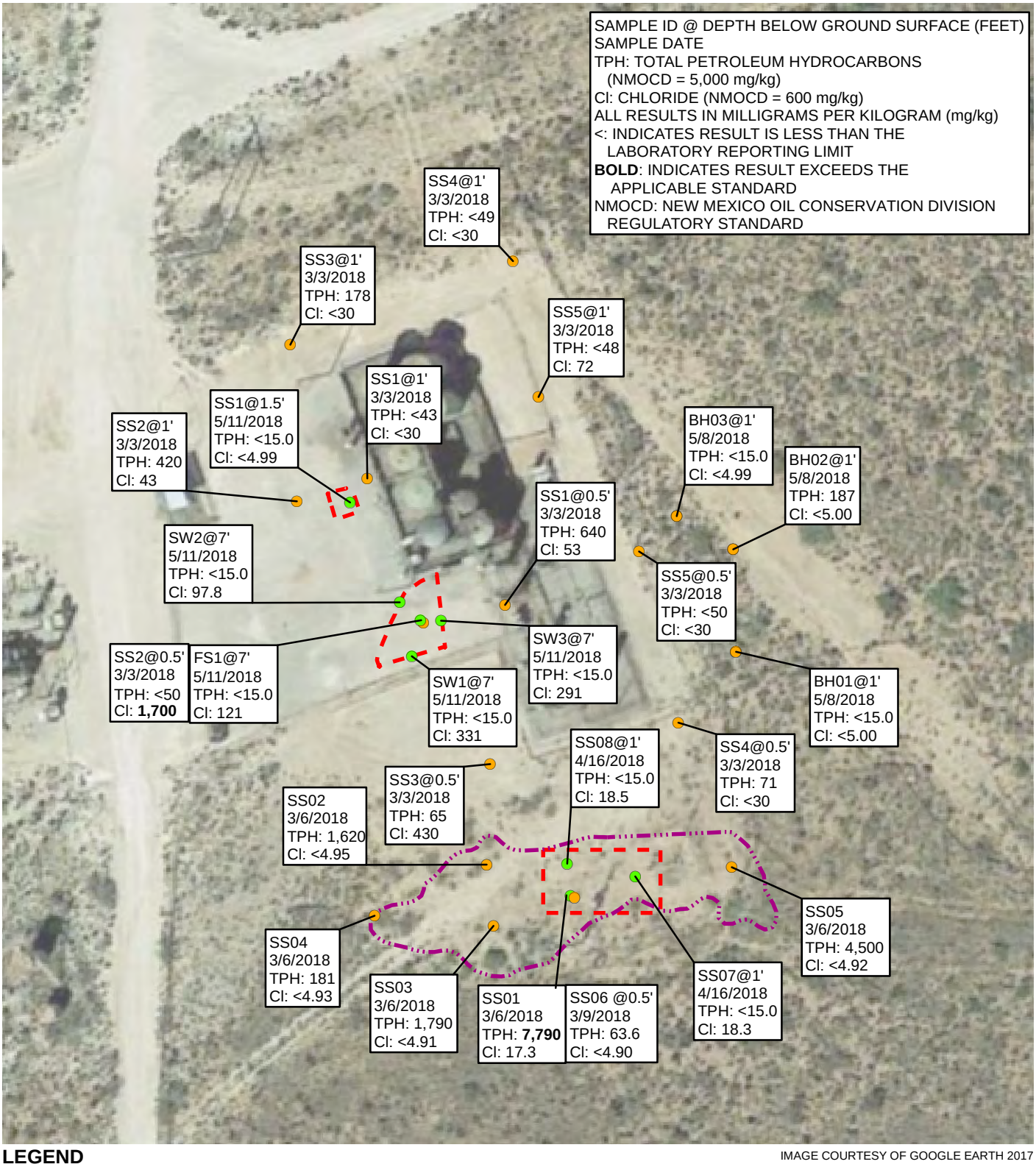
N

NEW MEXICO

NOTE: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

FIGURE 1
SITE LOCATION MAP
GOLDEN 8 FEDERAL CTB #1
NESW SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

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**LEGEND**

- EXCAVATION CONFIRMATION SOIL SAMPLE
- INVESTIGATIVE SOIL SAMPLE
- EXCAVATION EXTENT

CTB: CENTRAL TANK BATTERY

NOTE: BENZENE AND TOTAL BTEX NOT INCLUDED BECAUSE ALL RESULTS WERE BELOW LABORATORY DETECTION LIMITS

IMAGE COURTESY OF GOOGLE EARTH 2017

0 70 140
Feet

N

FIGURE 2
SITE SAMPLE LOCATIONS
GOLDEN 8 FEDERAL CTB #1
NESW SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

REMEDIATION PERMIT NUMBERS 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

P:\XTO Energy\GIS\MXD\012918065_GOLDEN 8 FEDERAL\012918065_FIG02_SITE_2018_GPS_DRAFT.mxd

# TABLES

**TABLE 1**
**SOIL ANALYTICAL RESULTS**
**GOLDEN 8 FEDERAL CENTRAL TANK BATTERY #1**
**REMEDIATION PERMIT NUMBERS 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601**
**EDDY COUNTY, NEW MEXICO**

**XTO ENERGY INC.**

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | C6-C10 Gasoline Range Organics (mg/kg) | C10-C28 Diesel Range Organics (mg/kg) | C28-40 Motor Oil Range Organics (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **INVESTIGATIVE SAMPLES** | | | | | | | | | | | | |
| SS1 | 1 | 3/3/2018 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | <5.0 | <8.5 | <43 | <43 | <30 |
| SS2 | 1 | 3/3/2018 | <0.024 | <0.047 | <0.047 | <0.094 | <0.094 | <4.7 | 220 | 200 | 420 | 43 |
| SS3 | 1 | 3/3/2018 | <0.025 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | 38 | 140 | 178 | <30 |
| SS4 | 1 | 3/3/2018 | <0.023 | <0.046 | <0.046 | <0.092 | <0.092 | <4.6 | <9.8 | <49 | <49 | <30 |
| SS5 | 1 | 3/3/2018 | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | <4.9 | <9.7 | <48 | <48 | 72 |
| SS1 | 0.5 | 3/3/2018 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | 230 | 410 | 640 | 53 |
| SS2 | 0.5 | 3/3/2018 | <0.024 | <0.047 | <0.047 | <0.094 | <0.094 | <4.7 | <10 | <50 | <50 | **1,700** |
| SS3 | 0.5 | 3/3/2018 | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | <4.8 | 11 | 54 | 65 | 430 |
| SS4 | 0.5 | 3/3/2018 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <9.9 | 71 | 71 | <30 |
| SS5 | 0.5 | 3/3/2018 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | <4.8 | <10 | <50 | <50 | <30 |
| SS01 | Surface | 3/6/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <74.9 | 7,100 | 686 | **7,790** | 17.3 |
| SS02 | Surface | 3/6/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 1,540 | 82.7 | 1,620 | <4.95 |
| SS03 | Surface | 3/6/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <14.9 | 1,700 | 89.9 | 1,790 | <4.91 |
| SS04 | Surface | 3/6/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 155 | 26.4 | 181 | <4.93 |
| SS05 | Surface | 3/6/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <74.8 | 3,900 | 604 | 4,500 | <4.92 |
| BH01 @ 1' | 1 | 5/8/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | <5.00 |
| BH02 @ 1' | 1 | 5/8/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <14.9 | 153 | 34.2 | 187 | <5.00 |
| BH03 @ 1' | 1 | 5/8/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | <4.99 |
| **EXCAVATION CONFIRMATION SAMPLES** | | | | | | | | | | | | |
| SS06 | 0.5 | 3/9/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 63.6 | <15.0 | 63.6 | <4.90 |
| SS07 | 1 | 4/16/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | 18.3 |
| SS08 | 1 | 4/16/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | 18.5 |
| SS1 | 1.5 | 5/11/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | <15.0 | <15.0 | <15.0 | <4.99 |
| FS1 | 7 | 5/11/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | 121 |
| SW1 | 7 | 5/11/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | <15.0 | <15.0 | <15.0 | 331 |
| SW2 | 7 | 5/11/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | <15.0 | <15.0 | <15.0 | 97.8 |
| SW3 | 7 | 5/11/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | <15.0 | <15.0 | <15.0 | 291 |
| NMOCD Remediation Action Level | | NE | 10 | NE | NE | NE | 50 | NE | NE | NE | 5,000 | 600 |

**Notes:**
bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - not established
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons
**Bold** - indicates result exceeds the applicable regulatory standard.

**ATTACHMENT 1**

**LABORATORY ANALTYICAL REPORTS**

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

March 13, 2018

A Baker
LTE
3300 N A St Bldg 1 #103
Midland, TX 79705
TEL: (432) 704-5178
FAX

RE: Golden 8 Federal 1 Tank Battery OrderNo.: 1803223

Dear A Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1803223**
Date Reported: **3/13/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS1
**Project:** Golden 8 Federal 1 Tank Battery **Collection Date:** 3/3/2018 9:30:00 AM
**Lab ID:** 1803223-001 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 3/8/2018 2:54:50 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 8.5 | | mg/Kg | 1 | 3/7/2018 5:55:30 PM | 36866 |
| Motor Oil Range Organics (MRO) | ND | 43 | | mg/Kg | 1 | 3/7/2018 5:55:30 PM | 36866 |
| Surr: DNOP | 89.6 | 70-130 | | %Rec | 1 | 3/7/2018 5:55:30 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/7/2018 10:25:16 AM | 36859 |
| Surr: BFB | 94.9 | 15-316 | | %Rec | 1 | 3/7/2018 10:25:16 AM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/7/2018 10:25:16 AM | 36859 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 10:25:16 AM | 36859 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 10:25:16 AM | 36859 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 3/7/2018 10:25:16 AM | 36859 |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 3/7/2018 10:25:16 AM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803223**
Date Reported: **3/13/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS2
**Project:** Golden 8 Federal 1 Tank Battery **Collection Date:** 3/3/2018 9:40:00 AM
**Lab ID:** 1803223-002 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 43 | 30 | | mg/Kg | 20 | 3/8/2018 3:07:15 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 220 | 9.6 | | mg/Kg | 1 | 3/7/2018 6:39:24 PM | 36866 |
| Motor Oil Range Organics (MRO) | 200 | 48 | | mg/Kg | 1 | 3/7/2018 6:39:24 PM | 36866 |
| Surr: DNOP | 105 | 70-130 | | %Rec | 1 | 3/7/2018 6:39:24 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/7/2018 10:48:56 AM | 36859 |
| Surr: BFB | 96.1 | 15-316 | | %Rec | 1 | 3/7/2018 10:48:56 AM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/7/2018 10:48:56 AM | 36859 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/7/2018 10:48:56 AM | 36859 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/7/2018 10:48:56 AM | 36859 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/7/2018 10:48:56 AM | 36859 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 3/7/2018 10:48:56 AM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803223**
Date Reported: **3/13/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS3
**Project:** Golden 8 Federal 1 Tank Battery **Collection Date:** 3/3/2018 9:50:00 AM
**Lab ID:** 1803223-003 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 3/8/2018 3:19:40 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 38 | 10 | | mg/Kg | 1 | 3/8/2018 11:50:16 AM | 36866 |
| Motor Oil Range Organics (MRO) | 140 | 50 | | mg/Kg | 1 | 3/8/2018 11:50:16 AM | 36866 |
| Surr: DNOP | 98.5 | 70-130 | | %Rec | 1 | 3/8/2018 11:50:16 AM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/7/2018 11:12:38 AM | 36859 |
| Surr: BFB | 96.6 | 15-316 | | %Rec | 1 | 3/7/2018 11:12:38 AM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/7/2018 11:12:38 AM | 36859 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/7/2018 11:12:38 AM | 36859 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/7/2018 11:12:38 AM | 36859 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 3/7/2018 11:12:38 AM | 36859 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 3/7/2018 11:12:38 AM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803223**
Date Reported: **3/13/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS4
**Project:** Golden 8 Federal 1 Tank Battery **Collection Date:** 3/3/2018 10:00:00 AM
**Lab ID:** 1803223-004 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 3/8/2018 3:32:04 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 3/7/2018 8:07:29 PM | 36866 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 3/7/2018 8:07:29 PM | 36866 |
| Surr: DNOP | 93.0 | 70-130 | | %Rec | 1 | 3/7/2018 8:07:29 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 3/7/2018 11:36:26 AM | 36859 |
| Surr: BFB | 95.2 | 15-316 | | %Rec | 1 | 3/7/2018 11:36:26 AM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 3/7/2018 11:36:26 AM | 36859 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 3/7/2018 11:36:26 AM | 36859 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 3/7/2018 11:36:26 AM | 36859 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 3/7/2018 11:36:26 AM | 36859 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %Rec | 1 | 3/7/2018 11:36:26 AM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803223**
Date Reported: **3/13/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS5
**Project:** Golden 8 Federal 1 Tank Battery **Collection Date:** 3/3/2018 10:10:00 AM
**Lab ID:** 1803223-005 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 72 | 30 | | mg/Kg | 20 | 3/8/2018 3:44:29 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 3/7/2018 8:29:20 PM | 36866 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 3/7/2018 8:29:20 PM | 36866 |
| Surr: DNOP | 92.0 | 70-130 | | %Rec | 1 | 3/7/2018 8:29:20 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 3/7/2018 12:00:06 PM | 36859 |
| Surr: BFB | 95.1 | 15-316 | | %Rec | 1 | 3/7/2018 12:00:06 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/7/2018 12:00:06 PM | 36859 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 3/7/2018 12:00:06 PM | 36859 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 3/7/2018 12:00:06 PM | 36859 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 3/7/2018 12:00:06 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 100 | 80-120 | | %Rec | 1 | 3/7/2018 12:00:06 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803223**

***13-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 Tank Battery

| Sample ID | **MB-36903** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36903** | RunNo: | **49642** | | | | | |
| Prep Date: | **3/8/2018** | Analysis Date: | **3/8/2018** | SeqNo: | **1606266** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-36903** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36903** | RunNo: | **49642** | | | | | |
| Prep Date: | **3/8/2018** | Analysis Date: | **3/8/2018** | SeqNo: | **1606267** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.0 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803223**

***13-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 Tank Battery

| Sample ID | **LCS-36866** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36866** | | RunNo: | **49602** | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | | SeqNo: | **1603693** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.7 | 70 | 130 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 75.4 | 70 | 130 | | | |

| Sample ID | **MB-36866** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36866** | | RunNo: | **49602** | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | | SeqNo: | **1603694** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.2 | | 10.00 | | 82.4 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803223**
***13-Mar-18***

**Client:** LTE
**Project:** Golden 8 Federal 1 Tank Battery

| Sample ID | **MB-36859** | SampType: | **MBLK** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604248** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 920 | | 1000 | | 91.9 | 15 | 316 | | | |

| Sample ID | **LCS-36859** | SampType: | **LCS** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604249** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 112 | 75.9 | 131 | | | |
| Surr: BFB | 1100 | | 1000 | | 108 | 15 | 316 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803223**

***13-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 Tank Battery

| Sample ID | **MB-36859** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604285** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.2 | 80 | 120 | | | |

| Sample ID | **LCS-36859** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604287** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 96.3 | 77.3 | 128 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.9 | 79.2 | 125 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 98.9 | 80.7 | 127 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.0 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: LTE MIDLAND Work Order Number: 1803223 RcptNo: 1

Received By: Anne Thorne 3/6/2018 6:55:00 AM

Completed By: Isaiah Ortiz 3/6/2018 9:14:16 AM

Reviewed By: BRE 03/06/18

Labeled By: DDS 3/6/18 DDS

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. VOA vials have zero headspace? | Yes ☐ | No ☐ | No VOA Vials ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | # of preserved bottles checked for pH: (<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | Adjusted? |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | Checked by: |

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.0 | | Yes | | | |

Released to Imaging: 4/21/2026 9:41:19 AM

Received by OCD: 4/14/2026 3:17:09 PM

# Chain-of-Custody Record

Client: CTE-permian

Mailing Address: Midland, TX

3300 N. A Street. Bld 105 #1

Phone #: 432-704-5178

email or Fax#: abaker@henv.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Golden 8 Federal #1 Tank Battery (See Notes)

Project #: 30-015-26931

Project Manager: Adnan Baker

Sampler: AC

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1803223 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | BTEX 8021 | TPH 8015 | Chloride 300.1 | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/3 | 0930 | S | ~~SS~~ SS1 | 1-4oz | Cool | 001 | | | | | | | | | | | | X | X | X | | |
| | 0940 | | SS2 | | | 002 | | | | | | | | | | | | | | | | |
| | 0950 | | SS3 | | | 003 | | | | | | | | | | | | | | | | |
| | 1000 | | SS4 | | | 004 | | | | | | | | | | | | | | | | |
| | 1010 | | SS5 | | | 005 | | | | | | | | | | | | | | | | |

| Date | Time | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 3/4 | 1700 | AC | | | |
| 3/5 | 1726 | | | 3/5/18 | 1720 |

Remarks:
RP# 2RP-0633 # 2RP-7439
# 2RP-0521
# 2RP-2028

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

3/5/18 1827 Chad Walker 03/06/18 0655 Courier

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 14, 2018

Adrian Baker
LTE
3300 N A St Bldg 1 #103
Midland, TX 79705
TEL: (432) 704-5178
FAX

RE: Golden 8 Federal 1 RP 2RP-3612 OrderNo.: 1803221

Dear Adrian Baker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1803221**
Date Reported: **3/14/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS1
**Project:** Golden 8 Federal 1 RP 2RP-3612 **Collection Date:** 3/3/2018 8:40:00 AM
**Lab ID:** 1803221-001 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 53 | 30 | | mg/Kg | 20 | 3/7/2018 5:21:40 PM | 36886 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 230 | 9.6 | | mg/Kg | 1 | 3/7/2018 1:31:40 PM | 36866 |
| Motor Oil Range Organics (MRO) | 410 | 48 | | mg/Kg | 1 | 3/7/2018 1:31:40 PM | 36866 |
| Surr: DNOP | 93.4 | 70-130 | | %Rec | 1 | 3/7/2018 1:31:40 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/7/2018 2:24:20 PM | 36859 |
| Surr: BFB | 89.6 | 15-316 | | %Rec | 1 | 3/7/2018 2:24:20 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/7/2018 2:24:20 PM | 36859 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 2:24:20 PM | 36859 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 2:24:20 PM | 36859 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 3/7/2018 2:24:20 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 88.1 | 80-120 | | %Rec | 1 | 3/7/2018 2:24:20 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803221**
Date Reported: **3/14/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS2
**Project:** Golden 8 Federal 1 RP 2RP-3612 **Collection Date:** 3/3/2018 8:50:00 AM
**Lab ID:** 1803221-002 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 1700 | 75 | | mg/Kg | 50 | 3/9/2018 6:59:22 PM | 36886 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/7/2018 11:41:09 AM | 36866 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 3/7/2018 11:41:09 AM | 36866 |
| Surr: DNOP | 87.4 | 70-130 | | %Rec | 1 | 3/7/2018 11:41:09 AM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 3/7/2018 2:47:38 PM | 36859 |
| Surr: BFB | 90.0 | 15-316 | | %Rec | 1 | 3/7/2018 2:47:38 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/7/2018 2:47:38 PM | 36859 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 3/7/2018 2:47:38 PM | 36859 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 3/7/2018 2:47:38 PM | 36859 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 3/7/2018 2:47:38 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 87.4 | 80-120 | | %Rec | 1 | 3/7/2018 2:47:38 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803221**
Date Reported: **3/14/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS3
**Project:** Golden 8 Federal 1 RP 2RP-3612 **Collection Date:** 3/3/2018 9:00:00 AM
**Lab ID:** 1803221-003 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | 430 | 30 | | mg/Kg | 20 | 3/8/2018 12:01:08 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 11 | 9.8 | | mg/Kg | 1 | 3/8/2018 1:20:12 PM | 36866 |
| Motor Oil Range Organics (MRO) | 54 | 49 | | mg/Kg | 1 | 3/8/2018 1:20:12 PM | 36866 |
| Surr: DNOP | 80.9 | 70-130 | | %Rec | 1 | 3/8/2018 1:20:12 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/7/2018 7:04:03 PM | 36859 |
| Surr: BFB | 91.9 | 15-316 | | %Rec | 1 | 3/7/2018 7:04:03 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/7/2018 7:04:03 PM | 36859 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/7/2018 7:04:03 PM | 36859 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/7/2018 7:04:03 PM | 36859 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 3/7/2018 7:04:03 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 90.5 | 80-120 | | %Rec | 1 | 3/7/2018 7:04:03 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803221**
Date Reported: **3/14/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS4
**Project:** Golden 8 Federal 1 RP 2RP-3612 **Collection Date:** 3/3/2018 9:10:00 AM
**Lab ID:** 1803221-004 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 3/8/2018 12:13:32 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 3/7/2018 2:58:59 PM | 36866 |
| Motor Oil Range Organics (MRO) | 71 | 50 | | mg/Kg | 1 | 3/7/2018 2:58:59 PM | 36866 |
| Surr: DNOP | 91.8 | 70-130 | | %Rec | 1 | 3/7/2018 2:58:59 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 3/7/2018 7:27:17 PM | 36859 |
| Surr: BFB | 90.1 | 15-316 | | %Rec | 1 | 3/7/2018 7:27:17 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 3/7/2018 7:27:17 PM | 36859 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 7:27:17 PM | 36859 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 3/7/2018 7:27:17 PM | 36859 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 3/7/2018 7:27:17 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 88.5 | 80-120 | | %Rec | 1 | 3/7/2018 7:27:17 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

**Analytical Report**
Lab Order **1803221**
Date Reported: **3/14/2018**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** LTE **Client Sample ID:** SS5
**Project:** Golden 8 Federal 1 RP 2RP-3612 **Collection Date:** 3/3/2018 9:20:00 AM
**Lab ID:** 1803221-005 **Matrix:** SOIL **Received Date:** 3/6/2018 6:55:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CJS** | |
| Chloride | ND | 30 | | mg/Kg | 20 | 3/8/2018 12:50:46 PM | 36903 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 3/7/2018 8:51:18 PM | 36866 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 3/7/2018 8:51:18 PM | 36866 |
| Surr: DNOP | 77.2 | 70-130 | | %Rec | 1 | 3/7/2018 8:51:18 PM | 36866 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 3/7/2018 7:50:27 PM | 36859 |
| Surr: BFB | 91.2 | 15-316 | | %Rec | 1 | 3/7/2018 7:50:27 PM | 36859 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 3/7/2018 7:50:27 PM | 36859 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 3/7/2018 7:50:27 PM | 36859 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 3/7/2018 7:50:27 PM | 36859 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 3/7/2018 7:50:27 PM | 36859 |
| Surr: 4-Bromofluorobenzene | 90.4 | 80-120 | | %Rec | 1 | 3/7/2018 7:50:27 PM | 36859 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803221**

***14-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 RP 2RP-3612

| Sample ID | **MB-36886** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36886** | RunNo: | **49611** | | | | | |
| Prep Date: | **3/7/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604728** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-36886** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36886** | RunNo: | **49611** | | | | | |
| Prep Date: | **3/7/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604730** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 101 | 90 | 110 | | | |

| Sample ID | **MB-36903** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36903** | RunNo: | **49642** | | | | | |
| Prep Date: | **3/8/2018** | Analysis Date: | **3/8/2018** | SeqNo: | **1606266** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID | **LCS-36903** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36903** | RunNo: | **49642** | | | | | |
| Prep Date: | **3/8/2018** | Analysis Date: | **3/8/2018** | SeqNo: | **1606267** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.0 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803221**

***14-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 RP 2RP-3612

| Sample ID | **LCS-36866** | SampType: | **LCS** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36866** | | RunNo: | **49602** | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | | SeqNo: | **1603693** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.7 | 70 | 130 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 75.4 | 70 | 130 | | | |

| Sample ID | **MB-36866** | SampType: | **MBLK** | | TestCode: | **EPA Method 8015M/D: Diesel Range Organics** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36866** | | RunNo: | **49602** | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | | SeqNo: | **1603694** | Units: | **mg/Kg** | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.2 | | 10.00 | | 82.4 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803221**

***14-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 RP 2RP-3612

| Sample ID | **MB-36859** | SampType: | **MBLK** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604248** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 920 | | 1000 | | 91.9 | 15 | 316 | | | |

| Sample ID | **LCS-36859** | SampType: | **LCS** | TestCode: | **EPA Method 8015D: Gasoline Range** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604249** | Units: | **mg/Kg** | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 112 | 75.9 | 131 | | | |
| Surr: BFB | 1100 | | 1000 | | 108 | 15 | 316 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1803221**

***14-Mar-18***

**Client:** LTE

**Project:** Golden 8 Federal 1 RP 2RP-3612

| Sample ID | **MB-36859** | SampType: | **MBLK** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604285** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.2 | 80 | 120 | | | |

| Sample ID | **LCS-36859** | SampType: | **LCS** | TestCode: | **EPA Method 8021B: Volatiles** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **36859** | RunNo: | **49627** | | | | | |
| Prep Date: | **3/6/2018** | Analysis Date: | **3/7/2018** | SeqNo: | **1604287** | Units: | **mg/Kg** | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 96.3 | 77.3 | 128 | | | |
| Toluene | 0.98 | 0.050 | 1.000 | 0 | 97.9 | 79.2 | 125 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 98.9 | 80.7 | 127 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.0 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: LTE MIDLAND | Work Order Number: 1803221 | RcptNo: 1

Received By: Anne Thorne 3/6/2018 6:55:00 AM

Completed By: Isaiah Ortiz 3/6/2018 8:25:04 AM

Reviewed By: See 03/06/18

LB: DDS

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? ____
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: ____

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.0 | Good | Yes | | | |

Released to Imaging: 4/21/2026 9:41:19 AM
Received by OCD: 4/14/2026 3:17:09 PM

# Chain-of-Custody Record

Client: CTE-permian

Mailing Address: Midland, TX
3300 N. A Street · Bld 103 #1

Phone #: 432-704-5178

email or Fax#: abaker@ltenv.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
Golden 8 Federal #1
RP# 2RP-3612

Project #:
30-015-26931

Project Manager:
Adnan Baker

Sampler: AC

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**
www.hallenvironmental.com
4901 Hawkins NE – Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1803221 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | BTEX 8021 | TPH 8015 | Chloride 300.1 | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/3 | 0840 | S | SS1 | 1-4oz | cool | 001 | | | | | | | | | | | | X | X | X | | |
| | 0850 | | SS2 | | | 002 | | | | | | | | | | | | | | | | |
| | 0900 | | SS3 | | | 003 | | | | | | | | | | | | | | | | |
| | 0910 | | SS4 | | | 004 | | | | | | | | | | | | | | | | |
| | 0920 | | SS5 | | | 005 | | | | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 3/4 | 1200 | AC | | | |
| 3/5 | 1220 | | | 3/5 | 1720 |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

# Analytical Report 578604

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal CTB**

**09-MAR-18**

Collected By: Client






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

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

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

09-MAR-18

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

Reference: XENCO Report No(s): **578604**
**Golden 8 Federal CTB**
Project Address: NM

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578604. 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. 578604 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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

# Sample Cross Reference 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS01 | S | 03-06-18 14:00 | | 578604-001 |
| SS02 | S | 03-06-18 14:10 | | 578604-002 |
| SS03 | S | 03-06-18 14:20 | | 578604-003 |
| SS04 | S | 03-06-18 14:30 | | 578604-004 |
| SS05 | S | 03-06-18 14:40 | | 578604-005 |

Version: 1.%

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal CTB***

Project ID:
Work Order Number(s): *578604*

Report Date: *09-MAR-18*
Date Received: *03/08/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3043201 BTEX by EPA 8021B

Lab Sample ID 578604-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 578604-001, -002, -003, -004, -005.

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

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 578604-005.

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

# Certificate of Analysis Summary 578604

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal CTB

**Project Id:**
**Contact:** Adrian Baker
**Project Location:** NM

**Date Received in Lab:** Thu Mar-08-18 09:15 am
**Report Date:** 09-MAR-18
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 578604-001 | | 578604-002 | | 578604-003 | | 578604-004 | | 578604-005 | |
| | *Field Id:* | SS01 | | SS02 | | SS03 | | SS04 | | SS05 | |
| | *Depth:* | | | | | | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | *Sampled:* | Mar-06-18 14:00 | | Mar-06-18 14:10 | | Mar-06-18 14:20 | | Mar-06-18 14:30 | | Mar-06-18 14:40 | |
| **BTEX by EPA 8021B** | *Extracted:* | Mar-08-18 16:45 | | Mar-08-18 16:45 | | Mar-08-18 16:45 | | Mar-08-18 16:45 | | Mar-08-18 16:45 | |
| | *Analyzed:* | Mar-09-18 10:55 | | Mar-09-18 10:55 | | Mar-09-18 10:55 | | Mar-09-18 10:55 | | Mar-09-18 10:55 | |
| | *Units/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 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00398 | 0.00398 | <0.00402 | 0.00402 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 |
| **Inorganic Anions by EPA 300** | *Extracted:* | Mar-08-18 13:00 | | Mar-08-18 13:00 | | Mar-08-18 13:00 | | Mar-08-18 13:00 | | Mar-08-18 13:00 | |
| | *Analyzed:* | Mar-08-18 16:11 | | Mar-08-18 16:29 | | Mar-08-18 16:34 | | Mar-08-18 16:39 | | Mar-08-18 16:45 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 17.3 | 4.99 | <4.95 | 4.95 | <4.91 | 4.91 | <4.93 | 4.93 | <4.92 | 4.92 |
| **TPH by SW8015 Mod** | *Extracted:* | Mar-08-18 10:00 | | Mar-08-18 10:00 | | Mar-08-18 10:00 | | Mar-08-18 10:00 | | Mar-08-18 10:00 | |
| | *Analyzed:* | Mar-08-18 11:56 | | Mar-08-18 12:22 | | Mar-08-18 12:49 | | Mar-08-18 13:17 | | Mar-08-18 13:45 | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <74.9 | 74.9 | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | <74.8 | 74.8 |
| Diesel Range Organics (DRO) | | 7100 | 74.9 | 1540 | 15.0 | 1700 | 14.9 | 155 | 15.0 | 3900 | 74.8 |
| Oil Range Hydrocarbons (ORO) | | 686 | 74.9 | 82.7 | 15.0 | 89.9 | 14.9 | 26.4 | 15.0 | 604 | 74.8 |
| Total TPH | | 7790 | 74.9 | 1620 | 15.0 | 1790 | 14.9 | 181 | 15.0 | 4500 | 74.8 |

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: **SS01** Matrix: Soil Date Received:03.08.18 09.15

Lab Sample Id: 578604-001 Date Collected: 03.06.18 14.00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: OJS % Moisture:

Analyst: OJS Date Prep: 03.08.18 13.00 Basis: Wet Weight

Seq Number: 3043151

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **17.3** | 4.99 | mg/kg | 03.08.18 16.11 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.08.18 10.00 Basis: Wet Weight

Seq Number: 3043122

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <74.9 | 74.9 | mg/kg | 03.08.18 11.56 | U | 5 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **7100** | 74.9 | mg/kg | 03.08.18 11.56 | | 5 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **686** | 74.9 | mg/kg | 03.08.18 11.56 | | 5 |
| **Total TPH** | PHC635 | **7790** | 74.9 | mg/kg | 03.08.18 11.56 | | 5 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-135 | 03.08.18 11.56 | |
| o-Terphenyl | 84-15-1 | 110 | % | 70-135 | 03.08.18 11.56 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS01** | Matrix: | Soil | Date Received: | 03.08.18 09.15 |
| Lab Sample Id: | 578604-001 | Date Collected: | 03.06.18 14.00 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.08.18 16.45 | Basis: | Wet Weight |
| Seq Number: | 3043201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 03.09.18 10.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 111 | % | 70-130 | 03.09.18 10.55 | |
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 03.09.18 10.55 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: **SS02** Matrix: Soil Date Received:03.08.18 09.15

Lab Sample Id: 578604-002 Date Collected: 03.06.18 14.10

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: OJS % Moisture:

Analyst: OJS Date Prep: 03.08.18 13.00 Basis: Wet Weight

Seq Number: 3043151

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.95 | 4.95 | mg/kg | 03.08.18 16.29 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.08.18 10.00 Basis: Wet Weight

Seq Number: 3043122

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 03.08.18 12.22 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1540** | 15.0 | mg/kg | 03.08.18 12.22 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **82.7** | 15.0 | mg/kg | 03.08.18 12.22 | | 1 |
| **Total TPH** | PHC635 | **1620** | 15.0 | mg/kg | 03.08.18 12.22 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 03.08.18 12.22 | |
| o-Terphenyl | 84-15-1 | 129 | % | 70-135 | 03.08.18 12.22 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS02** | Matrix: | Soil | Date Received: | 03.08.18 09.15 |
| Lab Sample Id: | 578604-002 | Date Collected: | 03.06.18 14.10 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.08.18 16.45 | Basis: | Wet Weight |
| Seq Number: | 3043201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 03.09.18 10.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 03.09.18 10.55 | |
| 1,4-Difluorobenzene | 540-36-3 | 75 | % | 70-130 | 03.09.18 10.55 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: **SS03** Matrix: Soil Date Received:03.08.18 09.15

Lab Sample Id: 578604-003 Date Collected: 03.06.18 14.20

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: OJS % Moisture:

Analyst: OJS Date Prep: 03.08.18 13.00 Basis: Wet Weight

Seq Number: 3043151

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.91 | 4.91 | mg/kg | 03.08.18 16.34 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.08.18 10.00 Basis: Wet Weight

Seq Number: 3043122

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 03.08.18 12.49 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1700** | 14.9 | mg/kg | 03.08.18 12.49 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **89.9** | 14.9 | mg/kg | 03.08.18 12.49 | | 1 |
| **Total TPH** | PHC635 | **1790** | 14.9 | mg/kg | 03.08.18 12.49 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 03.08.18 12.49 | |
| o-Terphenyl | 84-15-1 | 130 | % | 70-135 | 03.08.18 12.49 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS03** | Matrix: | Soil | Date Received: | 03.08.18 09.15 |
| Lab Sample Id: | 578604-003 | Date Collected: | 03.06.18 14.20 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.08.18 16.45 | Basis: | Wet Weight |
| Seq Number: | 3043201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 03.09.18 10.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 03.09.18 10.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 03.09.18 10.55 | |
| 1,4-Difluorobenzene | 540-36-3 | 80 | % | 70-130 | 03.09.18 10.55 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: **SS04** Matrix: Soil Date Received:03.08.18 09.15

Lab Sample Id: 578604-004 Date Collected: 03.06.18 14.30

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: OJS % Moisture:

Analyst: OJS Date Prep: 03.08.18 13.00 Basis: Wet Weight

Seq Number: 3043151

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.93 | 4.93 | mg/kg | 03.08.18 16.39 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.08.18 10.00 Basis: Wet Weight

Seq Number: 3043122

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 03.08.18 13.17 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **155** | 15.0 | mg/kg | 03.08.18 13.17 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **26.4** | 15.0 | mg/kg | 03.08.18 13.17 | | 1 |
| **Total TPH** | PHC635 | **181** | 15.0 | mg/kg | 03.08.18 13.17 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 113 | % | 70-135 | 03.08.18 13.17 | |
| o-Terphenyl | 84-15-1 | 118 | % | 70-135 | 03.08.18 13.17 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS04** | Matrix: | Soil | Date Received: | 03.08.18 09.15 |
| Lab Sample Id: | 578604-004 | Date Collected: | 03.06.18 14.30 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.08.18 16.45 | Basis: | Wet Weight |
| Seq Number: | 3043201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 03.09.18 10.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 03.09.18 10.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 03.09.18 10.55 | |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 03.09.18 10.55 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Sample Id: **SS05** Matrix: Soil Date Received:03.08.18 09.15

Lab Sample Id: 578604-005 Date Collected: 03.06.18 14.40

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: OJS % Moisture:

Analyst: OJS Date Prep: 03.08.18 13.00 Basis: Wet Weight

Seq Number: 3043151

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.92 | 4.92 | mg/kg | 03.08.18 16.45 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.08.18 10.00 Basis: Wet Weight

Seq Number: 3043122

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <74.8 | 74.8 | mg/kg | 03.08.18 13.45 | U | 5 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **3900** | 74.8 | mg/kg | 03.08.18 13.45 | | 5 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **604** | 74.8 | mg/kg | 03.08.18 13.45 | | 5 |
| **Total TPH** | PHC635 | **4500** | 74.8 | mg/kg | 03.08.18 13.45 | | 5 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 03.08.18 13.45 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-135 | 03.08.18 13.45 | |

# Certificate of Analytical Results 578604

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS05** | Matrix: | Soil | Date Received: | 03.08.18 09.15 |
| Lab Sample Id: | 578604-005 | Date Collected: | 03.06.18 14.40 | | |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.08.18 16.45 | Basis: | Wet Weight |
| Seq Number: | 3043201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 03.09.18 10.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 03.09.18 10.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 56 | % | 70-130 | 03.09.18 10.55 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 102 | % | 70-130 | 03.09.18 10.55 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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

# QC Summary 578604



## LT Environmental, Inc.

Golden 8 Federal CTB

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043151 — Matrix: Solid — Date Prep: 03.08.18
MB Sample Id: 7640419-1-BLK — LCS Sample Id: 7640419-1-BKS — LCSD Sample Id: 7640419-1-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 | 248 | 99 | 249 | 100 | 90-110 | 0 | 20 | mg/kg | 03.08.18 14:25 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043151 — Matrix: Soil — Date Prep: 03.08.18
Parent Sample Id: 578424-003 — MS Sample Id: 578424-003 S — MSD Sample Id: 578424-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 103 | 249 | 360 | 103 | 360 | 103 | 90-110 | 0 | 20 | mg/kg | 03.08.18 14:41 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043151 — Matrix: Soil — Date Prep: 03.08.18
Parent Sample Id: 578425-005 — MS Sample Id: 578425-005 S — MSD Sample Id: 578425-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.97 | 249 | 250 | 100 | 250 | 100 | 90-110 | 0 | 20 | mg/kg | 03.08.18 15:55 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3043122 — Matrix: Solid — Date Prep: 03.07.18
MB Sample Id: 7640359-1-BLK — LCS Sample Id: 7640359-1-BKS — LCSD Sample Id: 7640359-1-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) | <15.0 | 1000 | 986 | 99 | 971 | 97 | 70-135 | 2 | 35 | mg/kg | 03.08.18 02:51 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1020 | 102 | 996 | 100 | 70-135 | 2 | 35 | mg/kg | 03.08.18 02:51 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 103 | | 110 | | 107 | | 70-135 | % | 03.08.18 02:51 |
| o-Terphenyl | 103 | | 109 | | 104 | | 70-135 | % | 03.08.18 02:51 |

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

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

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

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



Final 1.000

# QC Summary 578604

## LT Environmental, Inc.

Golden 8 Federal CTB

**Analytical Method:** TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3043122 | Matrix: Soil | Date Prep: 03.07.18
Parent Sample Id: 578424-001 | MS Sample Id: 578424-001 S | MSD Sample Id: 578424-001 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) | <15.0 | 997 | 1030 | 103 | 1040 | 104 | 70-135 | 1 | 35 | mg/kg | 03.08.18 04:10 | |
| Diesel Range Organics (DRO) | <15.0 | 997 | 1050 | 105 | 1090 | 109 | 70-135 | 4 | 35 | mg/kg | 03.08.18 04:10 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 117 | | 117 | | 70-135 | % | 03.08.18 04:10 |
| o-Terphenyl | 109 | | 112 | | 70-135 | % | 03.08.18 04:10 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3043201 | Matrix: Solid | Date Prep: 03.08.18
MB Sample Id: 7640464-1-BLK | LCS Sample Id: 7640464-1-BKS | LCSD Sample Id: 7640464-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.101 | 0.0883 | 87 | 0.0848 | 84 | 70-130 | 4 | 35 | mg/kg | 03.09.18 10:55 | |
| Toluene | <0.00201 | 0.101 | 0.0900 | 89 | 0.0930 | 92 | 70-130 | 3 | 35 | mg/kg | 03.09.18 10:55 | |
| Ethylbenzene | <0.00201 | 0.101 | 0.0937 | 93 | 0.0974 | 96 | 70-130 | 4 | 35 | mg/kg | 03.09.18 10:55 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.182 | 91 | 0.189 | 94 | 70-130 | 4 | 35 | mg/kg | 03.09.18 10:55 | |
| o-Xylene | <0.00201 | 0.101 | 0.0921 | 91 | 0.0957 | 95 | 70-130 | 4 | 35 | mg/kg | 03.09.18 10:55 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 85 | | 101 | | 95 | | 70-130 | % | 03.09.18 10:55 |
| 4-Bromofluorobenzene | 118 | | 130 | | 122 | | 70-130 | % | 03.09.18 10:55 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3043201 | Matrix: Soil | Date Prep: 03.08.18
Parent Sample Id: 578604-005 | MS Sample Id: 578604-005 S | MSD Sample Id: 578604-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0996 | 0.0818 | 82 | 0.0884 | 88 | 70-130 | 8 | 35 | mg/kg | 03.09.18 10:55 | |
| Toluene | <0.00199 | 0.0996 | 0.0659 | 66 | 0.0780 | 78 | 70-130 | 17 | 35 | mg/kg | 03.09.18 10:55 | X |
| Ethylbenzene | <0.00199 | 0.0996 | 0.0601 | 60 | 0.0745 | 75 | 70-130 | 21 | 35 | mg/kg | 03.09.18 10:55 | X |
| m,p-Xylenes | <0.00398 | 0.199 | 0.112 | 56 | 0.143 | 72 | 70-130 | 24 | 35 | mg/kg | 03.09.18 10:55 | X |
| o-Xylene | <0.00199 | 0.0996 | 0.0556 | 56 | 0.0717 | 72 | 70-130 | 25 | 35 | mg/kg | 03.09.18 10:55 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 78 | | 70 | | 70-130 | % | 03.09.18 10:55 |
| 4-Bromofluorobenzene | 124 | | 124 | | 70-130 | % | 03.09.18 10:55 |

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

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

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

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

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# CHAIN OF CUSTODY

XENCO LABORATORIES

Page ___ Of ___

*Setting the Standard since 1990*

Stafford,Texas (281-240-4200)

Dallas Texas (214-902-0300)

San Antonio, Texas (210-509-3334)

Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

www.xenco.com

Xenco Quote #

Xenco Job # 578604

## Client / Reporting Information

Company Name / Branch: LTE / Permian

Company Address: 3300 N. A Street Bldg 1 Suite 103 Midland TX 79705

Email: Abaker@ltenv.com

Phone No: 432-704-5178

Project Contact: Adrian Baker

Samplers's Name: Aaron Williamson

## Project Information

Project Name/Number: Golden 8 Federal CTB

Project Location: NM

Invoice To: XTO Energy - Kyle Littrell

PO Number: 30-015-26931

## Analytical Information

Btex EPA Method 8021

TPH EPA Method 8015

Chloride EPA Method 300.1

## Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Date | Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | Btex | TPH | Chloride | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS01 | surf. | 3-6-18 | 1400 | S | 1 | | | | | | | | X | X | X | X | |
| 2 | SS02 | | | 1410 | | | | | | | | | | | | | | |
| 3 | SS03 | | | 1420 | | | | | | | | | | | | | | |
| 4 | SS04 | | | 1430 | | | | | | | | | | | | | | |
| 5 | SS05 | | | 1440 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

## Turnaround Time ( Business days)

- [X] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT
- [ ] STANDARD TAT

TAT Starts Day received by Lab, if received by 5:00 pm

## Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes: API: 30-015-26931

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | Sampler: | 3.7.18 | | 2 | 3/8 915 | 2 |
| 2 | | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 3 | | Date Time: | Received By: | 4 | | 4 |
| 5 | | | | Cust | | |

Temp: 5.3 IR ID:R-8

CF:(0-6: -0.2°C )

(6-23: +0.2°C)

Corrected Temp: 5.1

On Ice | Cooler Temp. | Thermo. Corr. Factor

ice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontracto ses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. ) be enforced unless previously negotiated under a fully executed client contract.

or the cost of samples and shall not assume any responsibility for any ico but not analyzed will be invoiced at $5 per sample. These terms

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

Final 1.000

Page 19 of 20

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 03/08/2018 09:15:00 AM

**Work Order #:** 578604

**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)? | 5.1 | |
| #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** | TPH in bulk container |
| #13 Samples properly preserved? | **Yes** | |
| #14 Sample container(s) intact? | **Yes** | |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** | |
| #16 All samples received within hold time? | **Yes** | |
| #17 Subcontract of sample(s)? | **Yes** | |
| #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:** Katie Lowe Date: 03/08/2018

**Checklist reviewed by:** Jessica Kramer Date: 03/08/2018

Jessica Kramer

# Analytical Report 578893

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal Battery #1**

**12-MAR-18**

Collected By: Client






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

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

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)

12-MAR-18

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

Reference: XENCO Report No(s): **578893**
**Golden 8 Federal Battery #1**
Project Address: NM

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578893. 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. 578893 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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

# Sample Cross Reference 578893

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS06 | S | 03-09-18 13:00 | 6 In | 578893-001 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal Battery #1***

Project ID:
Work Order Number(s): *578893*

Report Date: *12-MAR-18*
Date Received: *03/10/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3043357 BTEX by EPA 8021B

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

# Certificate of Analysis Summary 578893

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal Battery #1

**Project Id:**
**Contact:** Adrian Baker
**Project Location:** NM

**Date Received in Lab:** Sat Mar-10-18 12:21 pm
**Report Date:** 12-MAR-18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 578893-001 | | | | | |
| | ***Field Id:*** | SS06 | | | | | |
| | ***Depth:*** | 6- In | | | | | |
| | ***Matrix:*** | SOIL | | | | | |
| | ***Sampled:*** | Mar-09-18 13:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Mar-10-18 12:30 | | | | | |
| | ***Analyzed:*** | Mar-11-18 09:24 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00401 | 0.00401 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | | | | |
| **Inorganic Anions by EPA 300** | ***Extracted:*** | Mar-12-18 09:00 | | | | | |
| | ***Analyzed:*** | Mar-12-18 10:37 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Chloride | | <4.90 | 4.90 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | ** ** ** ** | | | | | |
| | ***Analyzed:*** | Mar-11-18 02:31 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | 63.6 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | | | | |
| Total TPH | | 63.6 | 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.



Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 578893

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS06** | Matrix: | Soil | Date Received: | 03.10.18 12.21 |
| Lab Sample Id: | 578893-001 | Date Collected: | 03.09.18 13.00 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | OJS | Date Prep: | 03.12.18 09.00 | Basis: | Wet Weight |
| Seq Number: | 3043446 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.90 | 4.90 | mg/kg | 03.12.18 10.37 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 03.10.18 12.00 | Basis: | Wet Weight |
| Seq Number: | 3043414 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 03.11.18 02.31 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **63.6** | 15.0 | mg/kg | 03.11.18 02.31 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 03.11.18 02.31 | U | 1 |
| **Total TPH** | PHC635 | **63.6** | 15.0 | mg/kg | 03.11.18 02.31 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 03.11.18 02.31 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 03.11.18 02.31 | |

# Certificate of Analytical Results 578893

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS06** | Matrix: | Soil | Date Received: | 03.10.18 12.21 |
| Lab Sample Id: | 578893-001 | Date Collected: | 03.09.18 13.00 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 03.10.18 12.30 | Basis: | Wet Weight |
| Seq Number: | 3043357 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 03.11.18 09.24 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 03.11.18 09.24 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 03.11.18 09.24 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | % | 70-130 | 03.11.18 09.24 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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

# QC Summary 578893



## LT Environmental, Inc.

Golden 8 Federal Battery #1

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043446 — Matrix: Solid — Date Prep: 03.12.18
MB Sample Id: 7640586-1-BLK — LCS Sample Id: 7640586-1-BKS — LCSD Sample Id: 7640586-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 261 | 104 | 261 | 104 | 90-110 | 0 | 20 | mg/kg | 03.12.18 09:31 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043446 — Matrix: Soil — Date Prep: 03.12.18
Parent Sample Id: 578266-004 — MS Sample Id: 578266-004 S — MSD Sample Id: 578266-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.99 | 250 | 253 | 101 | 254 | 102 | 90-110 | 0 | 20 | mg/kg | 03.12.18 11:46 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3043446 — Matrix: Soil — Date Prep: 03.12.18
Parent Sample Id: 578891-004 — MS Sample Id: 578891-004 S — MSD Sample Id: 578891-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 11.2 | 246 | 258 | 100 | 258 | 100 | 90-110 | 0 | 20 | mg/kg | 03.12.18 10:26 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3043414 — Matrix: Solid — Date Prep: 03.10.18
MB Sample Id: 7640553-1-BLK — LCS Sample Id: 7640553-1-BKS — LCSD Sample Id: 7640553-1-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) | <15.0 | 1000 | 957 | 96 | 954 | 95 | 70-135 | 0 | 35 | mg/kg | 03.10.18 16:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1010 | 101 | 1020 | 102 | 70-135 | 1 | 35 | mg/kg | 03.10.18 16:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 95 | | 103 | | 108 | | 70-135 | % | 03.10.18 16:37 |
| o-Terphenyl | 97 | | 103 | | 106 | | 70-135 | % | 03.10.18 16:37 |

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

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

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

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



Final 1.000

# QC Summary 578893



## LT Environmental, Inc.

Golden 8 Federal Battery #1

**Analytical Method:** TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3043414 | Matrix: Soil | Date Prep: 03.10.18
Parent Sample Id: 578129-021 | MS Sample Id: 578129-021 S | MSD Sample Id: 578129-021 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) | <15.0 | 998 | 964 | 97 | 975 | 98 | 70-135 | 1 | 35 | mg/kg | 03.10.18 17:56 | |
| Diesel Range Organics (DRO) | <15.0 | 998 | 1070 | 107 | 1080 | 108 | 70-135 | 1 | 35 | mg/kg | 03.10.18 17:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 105 | | 109 | | 70-135 | % | 03.10.18 17:56 |
| o-Terphenyl | 104 | | 104 | | 70-135 | % | 03.10.18 17:56 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3043357 | Matrix: Solid | Date Prep: 03.10.18
MB Sample Id: 7640559-1-BLK | LCS Sample Id: 7640559-1-BKS | LCSD Sample Id: 7640559-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.0790 | 78 | 0.0735 | 74 | 70-130 | 7 | 35 | mg/kg | 03.10.18 22:25 | |
| Toluene | <0.00202 | 0.101 | 0.0845 | 84 | 0.0783 | 78 | 70-130 | 8 | 35 | mg/kg | 03.10.18 22:25 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0942 | 93 | 0.0897 | 90 | 70-130 | 5 | 35 | mg/kg | 03.10.18 22:25 | |
| m,p-Xylenes | <0.00403 | 0.202 | 0.185 | 92 | 0.178 | 89 | 70-130 | 4 | 35 | mg/kg | 03.10.18 22:25 | |
| o-Xylene | <0.00202 | 0.101 | 0.0937 | 93 | 0.0910 | 91 | 70-130 | 3 | 35 | mg/kg | 03.10.18 22:25 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 85 | | 88 | | 90 | | 70-130 | % | 03.10.18 22:25 |
| 4-Bromofluorobenzene | 98 | | 114 | | 111 | | 70-130 | % | 03.10.18 22:25 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3043357 | Matrix: Soil | Date Prep: 03.10.18
Parent Sample Id: 578592-004 | MS Sample Id: 578592-004 S | MSD Sample Id: 578592-004 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 | 0.0663 | 66 | 0.0629 | 63 | 70-130 | 5 | 35 | mg/kg | 03.10.18 23:03 | X |
| Toluene | <0.00200 | 0.100 | 0.0526 | 53 | 0.0525 | 53 | 70-130 | 0 | 35 | mg/kg | 03.10.18 23:03 | X |
| Ethylbenzene | <0.00200 | 0.100 | 0.0272 | 27 | 0.0384 | 38 | 70-130 | 34 | 35 | mg/kg | 03.10.18 23:03 | X |
| m,p-Xylenes | <0.00401 | 0.200 | 0.0530 | 27 | 0.0707 | 35 | 70-130 | 29 | 35 | mg/kg | 03.10.18 23:03 | X |
| o-Xylene | <0.00200 | 0.100 | 0.0283 | 28 | 0.0372 | 37 | 70-130 | 27 | 35 | mg/kg | 03.10.18 23:03 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 86 | | 92 | | 70-130 | % | 03.10.18 23:03 |
| 4-Bromofluorobenzene | 103 | | 106 | | 70-130 | % | 03.10.18 23:03 |

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

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

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

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



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XENCO LABORATORIES

*Setting the Standard since 1990*

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# CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 578893

## Client / Reporting Information

Company Name / Branch: LTE / Permian

Company Address: 3300 N. A Street Bldg 1 Suite 103 Midland TX 79705

Email: Abaker@ltenv.com

Phone No: 432-704-5178

Project Contact: Adrian Baker

Samplers's Name: Aaron Williamson

## Project Information

Project Name/Number: Golden 8 Federal Battery #1

Project Location: NM

Invoice To: XTO Energy - Kyle Littrell

PO Number: 30-015-26931

## Analytical Information

Btex EPA Method 8021

TPH EPA Method 8015

Chloride EPA Method 300.1

## Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Date | Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | Btex EPA Method 8021 | TPH EPA Method 8015 | Chloride EPA Method 300.1 | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS06 | 6" | 3.9.18 | 1300 | S | 1 | | | | | | | | X | X | X | X | |
| 2 | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

## Turnaround Time ( Business days)

- [X] Same Day TAT
- [ ] Next Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 3 Day EMERGENCY
- [ ] 5 Day TAT
- [ ] 7 Day TAT
- [ ] Contract TAT
- [ ] STANDARD TAT

TAT Starts Day received by Lab, if received by 5:00 pm

## Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

## Notes:

API - 30-015-26931

Temp: 2.1 IR ID:R-8

CF:(0-6: -0.2°C )

(6-23: +0.2°C) 1.9

Corrected Temp:

FED-EX

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by Sampler: | Date Time: 3-19-18 1700 | Received By: 1 | Relinquished By: 2 | Date Time: 3.19.18 1700 | Received By: 2 |
| Relinquished by: | Date Time: 3/19 12:21 | Received By: 3 Julian M | Relinquished By: 4 | Date Time: | Received By: 4 |
| Relinquished by: | Date Time: | Received By: 5 | Custody Seal # | Preserved where applicable | On Ice / Cooler Temp. / Thermo. Corr. Factor |

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

Final 1.000

Page 11 of 12

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 03/10/2018 12:21:00 PM

**Work Order #:** 578893

**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)? | 1.9 |
| #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:** Katie Lowe Date: 03/10/2018

**Checklist reviewed by:** Jessica Kramer Date: 03/12/2018

Jessica Kramer

Received by OCD: 4/14/2026 3:17:09 PM



# Certificate of Analysis Summary 583284

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal Battery

**Project Id:**
**Contact:** Adrian Baker
**Project Location:** NM

**Date Received in Lab:** Sat Apr-21-18 10:00 am
**Report Date:** 27-APR-18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 583284-001 | | 583284-002 | | | | | |
| | ***Field Id:*** | SS7 | | SS8 | | | | | |
| | ***Depth:*** | 12- In | | 12- In | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | Apr-16-18 12:30 | | Apr-16-18 13:00 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Apr-24-18 13:00 | | Apr-24-18 13:00 | | | | | |
| | ***Analyzed:*** | Apr-24-18 21:39 | | Apr-24-18 21:58 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00397 | 0.00397 | <0.00399 | 0.00399 | | | | |
| o-Xylene | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00198 | 0.00198 | <0.00200 | 0.00200 | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | Apr-26-18 16:00 | | Apr-26-18 16:00 | | | | | |
| | ***Analyzed:*** | Apr-26-18 20:03 | | Apr-26-18 20:34 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 18.3 | 4.97 | 18.5 | 4.96 | | | | |
| **TPH By SW8015 Mod** | ***Extracted:*** | Apr-25-18 16:00 | | Apr-25-18 16:00 | | | | | |
| | ***Analyzed:*** | Apr-26-18 00:27 | | Apr-26-18 00:53 | | | | | |
| | ***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 | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | <15.0 | 15.0 | | | | |
| Total TPH | | <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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Released to Imaging: 4/21/2026 9:41:19 AM

# Analytical Report 583284

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal Battery**

**27-APR-18**

Collected By: Client





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

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

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

27-APR-18

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

Reference: XENCO Report No(s): **583284**
**Golden 8 Federal Battery**
Project Address: NM

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 583284. 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. 583284 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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

# Sample Cross Reference 583284

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS7 | S | 04-16-18 12:30 | 12 In | 583284-001 |
| SS8 | S | 04-16-18 13:00 | 12 In | 583284-002 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal Battery***

Project ID:
Work Order Number(s): *583284*

Report Date: *27-APR-18*
Date Received: *04/21/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3047816 BTEX by EPA 8021B

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

# Certificate of Analytical Results 583284

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS7** | Matrix: | Soil | Date Received: | 04.21.18 10.00 |
| Lab Sample Id: | 583284-001 | Date Collected: | 04.16.18 12.30 | Sample Depth: | 12 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 04.26.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3048105 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **18.3** | 4.97 | mg/kg | 04.26.18 20.03 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 04.25.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3047990 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 04.26.18 00.27 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 04.26.18 00.27 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 04.26.18 00.27 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 04.26.18 00.27 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 04.26.18 00.27 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 04.26.18 00.27 | |

# Certificate of Analytical Results 583284

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS7** | Matrix: | Soil | Date Received: | 04.21.18 10.00 |
| Lab Sample Id: | 583284-001 | Date Collected: | 04.16.18 12.30 | Sample Depth: | 12 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 04.24.18 13.00 | Basis: | Wet Weight |
| Seq Number: | 3047816 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 04.24.18 21.39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 04.24.18 21.39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 04.24.18 21.39 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 04.24.18 21.39 | |

# Certificate of Analytical Results 583284

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS8** | Matrix: | Soil | Date Received: | 04.21.18 10.00 |
| Lab Sample Id: | 583284-002 | Date Collected: | 04.16.18 13.00 | Sample Depth: | 12 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 04.26.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3048105 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **18.5** | 4.96 | mg/kg | 04.26.18 20.34 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH By SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 04.25.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3047990 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 04.26.18 00.53 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 04.26.18 00.53 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 04.26.18 00.53 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 04.26.18 00.53 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 04.26.18 00.53 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 04.26.18 00.53 | |

# Certificate of Analytical Results 583284

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS8** | Matrix: | Soil | Date Received: | 04.21.18 10.00 |
| Lab Sample Id: | 583284-002 | Date Collected: | 04.16.18 13.00 | Sample Depth: | 12 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 04.24.18 13.00 | Basis: | Wet Weight |
| Seq Number: | 3047816 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 04.24.18 21.58 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 04.24.18 21.58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 92 | % | 70-130 | 04.24.18 21.58 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 04.24.18 21.58 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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

# QC Summary 583284



## LT Environmental, Inc.

Golden 8 Federal Battery

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3048105 — Matrix: Solid — Date Prep: 04.26.18
MB Sample Id: 7643509-1-BLK — LCS Sample Id: 7643509-1-BKS — LCSD Sample Id: 7643509-1-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 | 235 | 94 | 235 | 94 | 90-110 | 0 | 20 | mg/kg | 04.26.18 18:40 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3048105 — Matrix: Soil — Date Prep: 04.26.18
Parent Sample Id: 583288-001 — MS Sample Id: 583288-001 S — MSD Sample Id: 583288-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 25.2 | 250 | 247 | 89 | 247 | 89 | 90-110 | 0 | 20 | mg/kg | 04.26.18 21:36 | X |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3048105 — Matrix: Soil — Date Prep: 04.26.18
Parent Sample Id: 583452-018 — MS Sample Id: 583452-018 S — MSD Sample Id: 583452-018 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 131 | 249 | 375 | 98 | 373 | 97 | 90-110 | 1 | 20 | mg/kg | 04.26.18 19:11 | |

**Analytical Method:** TPH By SW8015 Mod — Prep Method: TX1005P
Seq Number: 3047990 — Matrix: Solid — Date Prep: 04.25.18
MB Sample Id: 7643471-1-BLK — LCS Sample Id: 7643471-1-BKS — LCSD Sample Id: 7643471-1-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) | <15.0 | 1000 | 1010 | 101 | 1070 | 107 | 70-135 | 6 | 20 | mg/kg | 04.25.18 21:46 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1010 | 101 | 1090 | 109 | 70-135 | 8 | 20 | mg/kg | 04.25.18 21:46 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111 | | 114 | | 122 | | 70-135 | % | 04.25.18 21:46 |
| o-Terphenyl | 116 | | 113 | | 121 | | 70-135 | % | 04.25.18 21:46 |

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

# QC Summary 583284

## LT Environmental, Inc.

Golden 8 Federal Battery

**Analytical Method:** TPH By SW8015 Mod — Prep Method: TX1005P
Seq Number: 3047990 — Matrix: Soil — Date Prep: 04.25.18
Parent Sample Id: 583282-001 — MS Sample Id: 583282-001 S — MSD Sample Id: 583282-001 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) | <15.0 | 998 | 1060 | 106 | 1010 | 101 | 70-135 | 5 | 20 | mg/kg | 04.25.18 23:06 | |
| Diesel Range Organics (DRO) | 24.2 | 998 | 1060 | 104 | 1020 | 100 | 70-135 | 4 | 20 | mg/kg | 04.25.18 23:06 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 125 | | 118 | | 70-135 | % | 04.25.18 23:06 |
| o-Terphenyl | 121 | | 115 | | 70-135 | % | 04.25.18 23:06 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3047816 — Matrix: Solid — Date Prep: 04.24.18
MB Sample Id: 7643366-1-BLK — LCS Sample Id: 7643366-1-BKS — LCSD Sample Id: 7643366-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.115 | 114 | 0.114 | 114 | 70-130 | 1 | 35 | mg/kg | 04.24.18 17:48 | |
| Toluene | <0.00202 | 0.101 | 0.109 | 108 | 0.108 | 108 | 70-130 | 1 | 35 | mg/kg | 04.24.18 17:48 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.110 | 109 | 0.108 | 108 | 70-130 | 2 | 35 | mg/kg | 04.24.18 17:48 | |
| m,p-Xylenes | <0.00403 | 0.202 | 0.226 | 112 | 0.224 | 112 | 70-130 | 1 | 35 | mg/kg | 04.24.18 17:48 | |
| o-Xylene | <0.00202 | 0.101 | 0.114 | 113 | 0.112 | 112 | 70-130 | 2 | 35 | mg/kg | 04.24.18 17:48 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 95 | | 108 | | 109 | | 70-130 | % | 04.24.18 17:48 |
| 4-Bromofluorobenzene | 89 | | 102 | | 93 | | 70-130 | % | 04.24.18 17:48 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3047816 — Matrix: Soil — Date Prep: 04.24.18
Parent Sample Id: 583285-001 — MS Sample Id: 583285-001 S — MSD Sample Id: 583285-001 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 | 0.0983 | 98 | 0.0878 | 88 | 70-130 | 11 | 35 | mg/kg | 04.24.18 18:27 | |
| Toluene | <0.00200 | 0.0998 | 0.0934 | 94 | 0.0824 | 82 | 70-130 | 13 | 35 | mg/kg | 04.24.18 18:27 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0937 | 94 | 0.0796 | 80 | 70-130 | 16 | 35 | mg/kg | 04.24.18 18:27 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.192 | 96 | 0.162 | 81 | 70-130 | 17 | 35 | mg/kg | 04.24.18 18:27 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0977 | 98 | 0.0834 | 83 | 70-130 | 16 | 35 | mg/kg | 04.24.18 18:27 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 108 | | 109 | | 70-130 | % | 04.24.18 18:27 |
| 4-Bromofluorobenzene | 106 | | 103 | | 70-130 | % | 04.24.18 18:27 |

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

Page 112 of 591

XENCO LABORATORIES

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# CHAIN OF CUSTODY

Page ___ Of ___

Stafford,Texas (281-240-4200)
Dallas Texas (214-902-0300)
San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

Xenco Quote #

Xenco Job # 583284

## Client / Reporting Information

Company Name / Branch: LTE/Midland
Company Address: 3300 North A Street Building 1, Unit #103, Midland, Texas
Email: abaker@ltenv.com
Phone No: 439-894-5641
Project Contact: Adrian Baker
Samplers's Name: Eric Carroll

## Project Information

Project Name/Number: Golden 8 Federal Battery
Project Location: NM
Invoice To: Kyle Littrell, XTO Energy
PO Number: 30-015-26931 2RP-4601

## Analytical Information

## Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Collection: Date | Collection: Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | BTEX | TPH | Chloride | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS 7 | 12" | 4/16/19 | 1230 | S | 1 | | | | | | | | X | X | X | X | |
| 2 | SS 8 | 12" | 4/16/19 | 1300 | S | 1 | | | | | | | | X | X | X | X | |
| 3 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

Turnaround Time ( Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [x] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG -411

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | Eric Carroll | 4/20 9:30 | Esperanza Gonzalez | Esperanza Gonzalez | 4/20 12:55 | 2 |
| 3 | Relinquished by: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 5 | Relinquished by: | Date Time: | Received By: | Custody Seal # | Preserved where applicable | On Ice / Cooler Temp. / Thermo. Corr. Factor |
| | | | 5 | | | 0.5 |

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 4/14/2026 3:17:09 PM
Final 1.001
Page 13 of 14
Released to Imaging: 4/21/2026 9:41:19 AM

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 04/21/2018 10:00:00 AM

**Work Order #:** 583284

**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)? | 1 | |
| #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** | TPh recieved inbulk container |
| #13 Samples properly preserved? | **Yes** | |
| #14 Sample container(s) intact? | **Yes** | |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** | |
| #16 All samples received within hold time? | **Yes** | |
| #17 Subcontract of sample(s)? | **No** | |
| #18 Water VOC samples have zero headspace? | **N/A** | |

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Katie Lowe Date: 04/23/2018

**Checklist reviewed by:** Jessica Kramer Date: 04/23/2018

Jessica Kramer

# Analytical Report 585761

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal #1**

**3001526931**

**16-MAY-18**

Collected By: Client






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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

16-MAY-18

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

Reference: XENCO Report No(s): **585761**
**Golden 8 Federal #1**
Project Address: 2RP-3612

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 585761. 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. 585761 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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

# Sample Cross Reference 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH01 @ 1' | S | 05-08-18 09:30 | 1 ft | 585761-001 |
| BH02 @ 1' | S | 05-08-18 09:35 | 1 ft | 585761-002 |
| BH03 @ 1' | S | 05-08-18 09:40 | 1 ft | 585761-003 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal #1***

Project ID: *3001526931*
Work Order Number(s): *585761*

Report Date: *16-MAY-18*
Date Received: *05/11/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3050168 BTEX by EPA 8021B

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

# Certificate of Analysis Summary 585761

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal #1

**Project Id:** 3001526931
**Contact:** Adrian Baker
**Project Location:** 2RP-3612

**Date Received in Lab:** Fri May-11-18 10:55 am
**Report Date:** 16-MAY-18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 585761-001 | | 585761-002 | | 585761-003 | | | | | |
| | ***Field Id:*** | BH01 @ 1' | | BH02 @ 1' | | BH03 @ 1' | | | | | |
| | ***Depth:*** | 1- ft | | 1- ft | | 1- ft | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | May-08-18 09:30 | | May-08-18 09:35 | | May-08-18 09:40 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | May-15-18 16:00 | | May-15-18 16:00 | | May-15-18 16:00 | | | | | |
| | ***Analyzed:*** | May-16-18 04:54 | | May-16-18 05:15 | | May-16-18 05:37 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Toluene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Ethylbenzene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| m,p-Xylenes | | <0.00398 | 0.00398 | <0.00399 | 0.00399 | <0.00402 | 0.00402 | | | | |
| o-Xylene | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total Xylenes | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| Total BTEX | | <0.00199 | 0.00199 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | | | | |
| **Inorganic Anions by EPA 300** | ***Extracted:*** | May-14-18 15:30 | | May-14-18 15:30 | | May-14-18 15:30 | | | | | |
| | ***Analyzed:*** | May-14-18 17:38 | | May-14-18 17:44 | | May-14-18 18:02 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | <5.00 | 5.00 | <5.00 | 5.00 | <4.99 | 4.99 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | May-12-18 10:00 | | May-12-18 10:00 | | May-12-18 10:00 | | | | | |
| | ***Analyzed:*** | May-13-18 09:47 | | May-13-18 10:15 | | May-13-18 10:43 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <15.0 | 15.0 | <14.9 | 14.9 | <15.0 | 15.0 | | | | |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | 153 | 14.9 | <15.0 | 15.0 | | | | |
| Oil Range Hydrocarbons (ORO) | | <15.0 | 15.0 | 34.2 | 14.9 | <15.0 | 15.0 | | | | |
| Total TPH | | <15.0 | 15.0 | 187 | 14.9 | <15.0 | 15.0 | | | | |

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



Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-001 | Date Collected: | 05.08.18 09.30 | Sample Depth: | 1 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.14.18 15.30 | Basis: | Wet Weight |
| Seq Number: | 3050071 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 05.14.18 17.38 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.12.18 10.00 | Basis: | Wet Weight |
| Seq Number: | 3049983 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.13.18 09.47 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.13.18 09.47 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.13.18 09.47 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.13.18 09.47 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-135 | 05.13.18 09.47 | |
| o-Terphenyl | 84-15-1 | 81 | % | 70-135 | 05.13.18 09.47 | |

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-001 | Date Collected: | 05.08.18 09.30 | Sample Depth: | 1 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.16.18 04.54 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.16.18 04.54 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 05.16.18 04.54 | |
| 4-Bromofluorobenzene | 460-00-4 | 89 | % | 70-130 | 05.16.18 04.54 | |

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-002 | Date Collected: | 05.08.18 09.35 | Sample Depth: | 1 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.14.18 15.30 | Basis: | Wet Weight |
| Seq Number: | 3050071 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <5.00 | 5.00 | mg/kg | 05.14.18 17.44 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.12.18 10.00 | Basis: | Wet Weight |
| Seq Number: | 3049983 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 05.13.18 10.15 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **153** | 14.9 | mg/kg | 05.13.18 10.15 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **34.2** | 14.9 | mg/kg | 05.13.18 10.15 | | 1 |
| **Total TPH** | PHC635 | **187** | 14.9 | mg/kg | 05.13.18 10.15 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 88 | % | 70-135 | 05.13.18 10.15 | |
| o-Terphenyl | 84-15-1 | 86 | % | 70-135 | 05.13.18 10.15 | |

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-002 | Date Collected: | 05.08.18 09.35 | Sample Depth: | 1 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.16.18 05.15 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.16.18 05.15 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 85 | % | 70-130 | 05.16.18 05.15 | |
| 1,4-Difluorobenzene | 540-36-3 | 83 | % | 70-130 | 05.16.18 05.15 | |

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH03 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-003 | Date Collected: | 05.08.18 09.40 | Sample Depth: | 1 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.14.18 15.30 | Basis: | Wet Weight |
| Seq Number: | 3050071 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 05.14.18 18.02 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.12.18 10.00 | Basis: | Wet Weight |
| Seq Number: | 3049983 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.13.18 10.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.13.18 10.43 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.13.18 10.43 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.13.18 10.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 05.13.18 10.43 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 05.13.18 10.43 | |

# Certificate of Analytical Results 585761

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH03 @ 1'** | Matrix: | Soil | Date Received: | 05.11.18 10.55 |
| Lab Sample Id: | 585761-003 | Date Collected: | 05.08.18 09.40 | Sample Depth: | 1 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.16.18 05.37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.16.18 05.37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 05.16.18 05.37 | |
| 4-Bromofluorobenzene | 460-00-4 | 92 | % | 70-130 | 05.16.18 05.37 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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

# QC Summary 585761



## LT Environmental, Inc.

Golden 8 Federal #1

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050071 — Matrix: Solid — Date Prep: 05.14.18
MB Sample Id: 7644694-1-BLK — LCS Sample Id: 7644694-1-BKS — LCSD Sample Id: 7644694-1-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 | 230 | 92 | 225 | 90 | 90-110 | 2 | 20 | mg/kg | 05.14.18 16:08 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050071 — Matrix: Soil — Date Prep: 05.14.18
Parent Sample Id: 585760-002 — MS Sample Id: 585760-002 S — MSD Sample Id: 585760-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 54.6 | 250 | 322 | 107 | 314 | 104 | 90-110 | 3 | 20 | mg/kg | 05.14.18 16:26 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050071 — Matrix: Soil — Date Prep: 05.14.18
Parent Sample Id: 585761-002 — MS Sample Id: 585761-002 S — MSD Sample Id: 585761-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <5.00 | 250 | 257 | 103 | 246 | 98 | 90-110 | 4 | 20 | mg/kg | 05.14.18 17:50 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3049983 — Matrix: Solid — Date Prep: 05.12.18
MB Sample Id: 7644589-1-BLK — LCS Sample Id: 7644589-1-BKS — LCSD Sample Id: 7644589-1-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) | <15.0 | 1000 | 1040 | 104 | 991 | 99 | 70-135 | 5 | 20 | mg/kg | 05.13.18 04:49 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1130 | 113 | 1070 | 107 | 70-135 | 5 | 20 | mg/kg | 05.13.18 04:49 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 125 | | 113 | | 70-135 | % | 05.13.18 04:49 |
| o-Terphenyl | 106 | | 116 | | 102 | | 70-135 | % | 05.13.18 04:49 |

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

# QC Summary 585761

## LT Environmental, Inc.

Golden 8 Federal #1

**Analytical Method:** TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3049983 | Matrix: Soil | Date Prep: 05.12.18
Parent Sample Id: 585815-001 | MS Sample Id: 585815-001 S | MSD Sample Id: 585815-001 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) | <15.0 | 997 | 979 | 98 | 898 | 90 | 70-135 | 9 | 20 | mg/kg | 05.13.18 06:11 | |
| Diesel Range Organics (DRO) | <15.0 | 997 | 1070 | 107 | 995 | 100 | 70-135 | 7 | 20 | mg/kg | 05.13.18 06:11 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 116 | | 107 | | 70-135 | % | 05.13.18 06:11 |
| o-Terphenyl | 108 | | 95 | | 70-135 | % | 05.13.18 06:11 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3050168 | Matrix: Solid | Date Prep: 05.15.18
MB Sample Id: 7644770-1-BLK | LCS Sample Id: 7644770-1-BKS | LCSD Sample Id: 7644770-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.100 | 0.106 | 106 | 0.100 | 100 | 70-130 | 6 | 35 | mg/kg | 05.15.18 20:03 | |
| Toluene | <0.00201 | 0.100 | 0.102 | 102 | 0.0970 | 97 | 70-130 | 5 | 35 | mg/kg | 05.15.18 20:03 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.105 | 105 | 0.101 | 101 | 70-130 | 4 | 35 | mg/kg | 05.15.18 20:03 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.219 | 109 | 0.212 | 106 | 70-130 | 3 | 35 | mg/kg | 05.15.18 20:03 | |
| o-Xylene | <0.00201 | 0.100 | 0.110 | 110 | 0.103 | 103 | 70-130 | 7 | 35 | mg/kg | 05.15.18 20:03 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 98 | | 100 | | 70-130 | % | 05.15.18 20:03 |
| 4-Bromofluorobenzene | 92 | | 92 | | 92 | | 70-130 | % | 05.15.18 20:03 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3050168 | Matrix: Soil | Date Prep: 05.15.18
Parent Sample Id: 585932-001 | MS Sample Id: 585932-001 S | MSD Sample Id: 585932-001 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 | 0.0804 | 81 | 0.0881 | 88 | 70-130 | 9 | 35 | mg/kg | 05.15.18 20:46 | |
| Toluene | <0.00200 | 0.0998 | 0.0706 | 71 | 0.0808 | 81 | 70-130 | 13 | 35 | mg/kg | 05.15.18 20:46 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0577 | 58 | 0.0707 | 71 | 70-130 | 20 | 35 | mg/kg | 05.15.18 20:46 | X |
| m,p-Xylenes | <0.00399 | 0.200 | 0.117 | 59 | 0.145 | 73 | 70-130 | 21 | 35 | mg/kg | 05.15.18 20:46 | X |
| o-Xylene | <0.00200 | 0.0998 | 0.0605 | 61 | 0.0727 | 73 | 70-130 | 18 | 35 | mg/kg | 05.15.18 20:46 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 102 | | 70-130 | % | 05.15.18 20:46 |
| 4-Bromofluorobenzene | 98 | | 96 | | 70-130 | % | 05.15.18 20:46 |

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

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

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

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



Final 1.000

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XENCO LABORATORIES

Setting the Standard since 1990

Stafford, Texas (281-240-4200)

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Phoenix, Arizona (480-355-0900)

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# CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 5955761

## Client / Reporting Information

Company Name / Branch: LT Environmental West Texas

Company Address: 3300 North A Street, Building 1 unit 103 Midland Tx 79705

Email: ubaker@LTEnv.com Phone No: (432)704-5178

Project Contact: Adrian Baker

Samplers's Name

## Project Information

Project Name/Number: Golden 8 Federal #1 / 30 015 26931

Project Location: 2RP-3612

Invoice To: XTO Energy - Kyle Littrell

PO Number:

## Analytical Information

BTEX 8021 (only BTEX)

TPH (MRO, DRO, GRO) 8015

Chloride (300.0)

## Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Collection: Date | Collection: Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | BTEX 8021 (only BTEX) | TPH (MRO, DRO, GRO) 8015 | Chloride (300.0) | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BH#1 @ 1' | 1' | 05/08/2018 | 9:30 | soil | 1 | | | | | | | | X | X | X | X | |
| 2 | BH#2 @ 1' | 1' | ↓ | 9:35 | ↓ | ↓ | | | | | | | | X | X | X | X | |
| 3 | BH#3 @ 1' | 1' | | 9:40 | ↓ | ↓ | | | | | | | | X | X | X | X | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

## Turnaround Time ( Business days)

- ☐ Same Day TAT
- ☒ 5 Day TAT
- ☐ Next Day EMERGENCY
- ☐ 7 Day TAT
- ☐ 2 Day EMERGENCY
- ☐ Contract TAT
- ☐ 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

## Data Deliverable Information

- ☐ Level II Std QC
- ☐ Level IV (Full Data Pkg /raw data)
- ☐ Level III Std QC+ Forms
- ☐ TRRP Level IV
- ☐ Level 3 (CLP Forms)
- ☐ UST / RG -411
- ☐ TRRP Checklist

Temp: 3.1 IR ID:R-8

CF:(0-6: -0.2°C )

(6-23: +0.2°C)

Corrected Temp: 1.9

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | Tyler Boulard | 5/10/18 13:40 | | | 5-10-18 5:30p | |
| 2 | | | | | | KRAMER 5.11.18 1055 |
| 3 | Relinquished by: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 4 | | | | | | |
| 5 | Relinquished by: | Date Time: | Received By: | Custody Seal # | Preserved where applicable | On Ice / Cooler Temp. / Thermo. Corr. Factor |
| | | | | | | ☒ |

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

Final 1.000

Page 15 of 16

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 05/11/2018 10:55:00 AM

**Work Order #:** 585761

**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)? | 1.9 |
| #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: 05/11/2018
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 05/11/2018
Jessica Kramer

# Analytical Report 585994

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal**

**012918065**

**16-MAY-18**

Collected By: Client





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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

16-MAY-18

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

Reference: XENCO Report No(s): **585994**
**Golden 8 Federal**
Project Address: 2RP-3612

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 585994. 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. 585994 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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# Sample Cross Reference 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS1 | S | 05-11-18 08:40 | 1.5 ft | 585994-001 |
| FS1 | S | 05-11-18 09:00 | 7 ft | 585994-002 |
| SW1 | S | 05-11-18 09:40 | 7 ft | 585994-003 |
| SW2 | S | 05-11-18 09:45 | 7 ft | 585994-004 |
| SW3 | S | 05-11-18 09:50 | 7 ft | 585994-005 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal***

Project ID: *012918065*
Work Order Number(s): *585994*

Report Date: *16-MAY-18*
Date Received: *05/15/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3050168 BTEX by EPA 8021B

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

# Certificate of Analysis Summary 585994

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal

**Project Id:** 012918065
**Contact:** Adrian Baker
**Project Location:** 2RP-3612

**Date Received in Lab:** Tue May-15-18 10:35 am
**Report Date:** 16-MAY-18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 585994-001 | | | 585994-002 | | | 585994-003 | | | 585994-004 | | | 585994-005 | | | |
| | ***Field Id:*** | SS1 | | | FS1 | | | SW1 | | | SW2 | | | SW3 | | | |
| | ***Depth:*** | 1.5- ft | | | 7- ft | | | 7- ft | | | 7- ft | | | 7- ft | | | |
| | ***Matrix:*** | SOIL | | | SOIL | | | SOIL | | | SOIL | | | SOIL | | | |
| | ***Sampled:*** | May-11-18 08:40 | | | May-11-18 09:00 | | | May-11-18 09:40 | | | May-11-18 09:45 | | | May-11-18 09:50 | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | |
| | ***Analyzed:*** | May-15-18 23:14 | | | May-15-18 23:35 | | | May-15-18 23:56 | | | May-16-18 00:18 | | | May-16-18 00:37 | | | |
| | ***Units/RL:*** | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | |
| Benzene | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| Toluene | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| Ethylbenzene | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| m,p-Xylenes | | <0.00397 | 0.00397 | | <0.00402 | 0.00402 | | <0.00402 | 0.00402 | | <0.00399 | 0.00399 | | <0.00398 | 0.00398 | | |
| o-Xylene | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| Total Xylenes | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| Total BTEX | | <0.00198 | 0.00198 | | <0.00201 | 0.00201 | | <0.00201 | 0.00201 | | <0.00200 | 0.00200 | | <0.00199 | 0.00199 | | |
| **Inorganic Anions by EPA 300** | ***Extracted:*** | May-15-18 13:30 | | | May-15-18 13:30 | | | May-15-18 13:30 | | | May-15-18 13:30 | | | May-15-18 13:30 | | | |
| | ***Analyzed:*** | May-15-18 14:26 | | | May-15-18 14:44 | | | May-15-18 14:50 | | | May-15-18 14:56 | | | May-15-18 15:02 | | | |
| | ***Units/RL:*** | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | mg/kg | RL | | |
| Chloride | | <4.99 | 4.99 | | 121 | 5.00 | | 331 | 4.97 | | 97.8 | 5.00 | | 291 | 4.95 | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | May-15-18 16:00 | | | |
| | ***Analyzed:*** | May-15-18 23:31 | | | May-16-18 00:48 | | | May-16-18 01:14 | | | May-16-18 01:41 | | | May-16-18 02:06 | | | |
| | ***Units/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 | | |
| Diesel Range Organics (DRO) | | <15.0 | 15.0 | | <15.0 | 15.0 | | <15.0 | 15.0 | | <15.0 | 15.0 | | <15.0 | 15.0 | | |
| Oil Range Hydrocarbons (ORO) | | <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 | | |

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-001 | Date Collected: | 05.11.18 08.40 | Sample Depth: | 1.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.15.18 13.30 | Basis: | Wet Weight |
| Seq Number: | 3050218 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.99 | 4.99 | mg/kg | 05.15.18 14.26 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.15.18 23.31 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.15.18 23.31 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.15.18 23.31 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.15.18 23.31 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 05.15.18 23.31 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 05.15.18 23.31 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-001 | Date Collected: | 05.11.18 08.40 | Sample Depth: | 1.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 05.15.18 23.14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 05.15.18 23.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 05.15.18 23.14 | |
| 4-Bromofluorobenzene | 460-00-4 | 91 | % | 70-130 | 05.15.18 23.14 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-002 | Date Collected: | 05.11.18 09.00 | Sample Depth: | 7 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.15.18 13.30 | Basis: | Wet Weight |
| Seq Number: | 3050218 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **121** | 5.00 | mg/kg | 05.15.18 14.44 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.16.18 00.48 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.16.18 00.48 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.16.18 00.48 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.16.18 00.48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 05.16.18 00.48 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 05.16.18 00.48 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-002 | Date Collected: | 05.11.18 09.00 | Sample Depth: | 7 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.15.18 23.35 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 05.15.18 23.35 | |
| 4-Bromofluorobenzene | 460-00-4 | 96 | % | 70-130 | 05.15.18 23.35 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-003 | Date Collected: | 05.11.18 09.40 | Sample Depth: | 7 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.15.18 13.30 | Basis: | Wet Weight |
| Seq Number: | 3050218 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **331** | 4.97 | mg/kg | 05.15.18 14.50 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.16.18 01.14 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.16.18 01.14 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.16.18 01.14 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.16.18 01.14 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 86 | % | 70-135 | 05.16.18 01.14 | |
| o-Terphenyl | 84-15-1 | 87 | % | 70-135 | 05.16.18 01.14 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW1** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-003 | Date Collected: | 05.11.18 09.40 | Sample Depth: | 7 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 05.15.18 23.56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 05.15.18 23.56 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 05.15.18 23.56 | |
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 05.15.18 23.56 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW2** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-004 | Date Collected: | 05.11.18 09.45 | Sample Depth: | 7 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.15.18 13.30 | Basis: | Wet Weight |
| Seq Number: | 3050218 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **97.8** | 5.00 | mg/kg | 05.15.18 14.56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.16.18 01.41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.16.18 01.41 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.16.18 01.41 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.16.18 01.41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 93 | % | 70-135 | 05.16.18 01.41 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 05.16.18 01.41 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW2** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-004 | Date Collected: | 05.11.18 09.45 | Sample Depth: | 7 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 05.16.18 00.18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 05.16.18 00.18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 05.16.18 00.18 | |
| 4-Bromofluorobenzene | 460-00-4 | 99 | % | 70-130 | 05.16.18 00.18 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW3** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-005 | Date Collected: | 05.11.18 09.50 | Sample Depth: | 7 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 05.15.18 13.30 | Basis: | Wet Weight |
| Seq Number: | 3050218 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **291** | 4.95 | mg/kg | 05.15.18 15.02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050201 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 05.16.18 02.06 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <15.0 | 15.0 | mg/kg | 05.16.18 02.06 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 05.16.18 02.06 | U | 1 |
| Total TPH | PHC635 | <15.0 | 15.0 | mg/kg | 05.16.18 02.06 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 98 | % | 70-135 | 05.16.18 02.06 | |
| o-Terphenyl | 84-15-1 | 100 | % | 70-135 | 05.16.18 02.06 | |

# Certificate of Analytical Results 585994

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW3** | Matrix: | Soil | Date Received: | 05.15.18 10.35 |
| Lab Sample Id: | 585994-005 | Date Collected: | 05.11.18 09.50 | Sample Depth: | 7 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 05.15.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3050168 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 05.16.18 00.37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 05.16.18 00.37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 05.16.18 00.37 | |
| 4-Bromofluorobenzene | 460-00-4 | 95 | % | 70-130 | 05.16.18 00.37 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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

# QC Summary 585994



## LT Environmental, Inc.

Golden 8 Federal

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050218 — Matrix: Solid — Date Prep: 05.15.18
MB Sample Id: 7644793-1-BLK — LCS Sample Id: 7644793-1-BKS — LCSD Sample Id: 7644793-1-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 | 230 | 92 | 233 | 93 | 90-110 | 1 | 20 | mg/kg | 05.15.18 14:14 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050218 — Matrix: Soil — Date Prep: 05.15.18
Parent Sample Id: 585928-002 — MS Sample Id: 585928-002 S — MSD Sample Id: 585928-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.96 | 248 | 251 | 101 | 257 | 104 | 90-110 | 2 | 20 | mg/kg | 05.15.18 15:56 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3050218 — Matrix: Soil — Date Prep: 05.15.18
Parent Sample Id: 585994-001 — MS Sample Id: 585994-001 S — MSD Sample Id: 585994-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <4.99 | 250 | 249 | 100 | 251 | 100 | 90-110 | 1 | 20 | mg/kg | 05.15.18 14:32 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3050201 — Matrix: Solid — Date Prep: 05.15.18
MB Sample Id: 7644778-1-BLK — LCS Sample Id: 7644778-1-BKS — LCSD Sample Id: 7644778-1-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) | <15.0 | 1000 | 1070 | 107 | 1090 | 109 | 70-135 | 2 | 20 | mg/kg | 05.15.18 22:39 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1120 | 112 | 1160 | 116 | 70-135 | 4 | 20 | mg/kg | 05.15.18 22:39 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 100 | | 117 | | 118 | | 70-135 | % | 05.15.18 22:39 |
| o-Terphenyl | 104 | | 115 | | 119 | | 70-135 | % | 05.15.18 22:39 |

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

# QC Summary 585994



## LT Environmental, Inc.

Golden 8 Federal

**Analytical Method:** TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3050201 | Matrix: Soil | Date Prep: 05.15.18
Parent Sample Id: 585994-001 | MS Sample Id: 585994-001 S | MSD Sample Id: 585994-001 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) | <15.0 | 999 | 1010 | 101 | 1060 | 106 | 70-135 | 5 | 20 | mg/kg | 05.15.18 23:57 | |
| Diesel Range Organics (DRO) | <15.0 | 999 | 1140 | 114 | 1190 | 119 | 70-135 | 4 | 20 | mg/kg | 05.15.18 23:57 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 113 | | 116 | | 70-135 | % | 05.15.18 23:57 |
| o-Terphenyl | 112 | | 115 | | 70-135 | % | 05.15.18 23:57 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3050168 | Matrix: Solid | Date Prep: 05.15.18
MB Sample Id: 7644770-1-BLK | LCS Sample Id: 7644770-1-BKS | LCSD Sample Id: 7644770-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.100 | 0.106 | 106 | 0.100 | 100 | 70-130 | 6 | 35 | mg/kg | 05.15.18 20:03 | |
| Toluene | <0.00201 | 0.100 | 0.102 | 102 | 0.0970 | 97 | 70-130 | 5 | 35 | mg/kg | 05.15.18 20:03 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.105 | 105 | 0.101 | 101 | 70-130 | 4 | 35 | mg/kg | 05.15.18 20:03 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.219 | 109 | 0.212 | 106 | 70-130 | 3 | 35 | mg/kg | 05.15.18 20:03 | |
| o-Xylene | <0.00201 | 0.100 | 0.110 | 110 | 0.103 | 103 | 70-130 | 7 | 35 | mg/kg | 05.15.18 20:03 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 98 | | 100 | | 70-130 | % | 05.15.18 20:03 |
| 4-Bromofluorobenzene | 92 | | 92 | | 92 | | 70-130 | % | 05.15.18 20:03 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3050168 | Matrix: Soil | Date Prep: 05.15.18
Parent Sample Id: 585932-001 | MS Sample Id: 585932-001 S | MSD Sample Id: 585932-001 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 | 0.0804 | 81 | 0.0881 | 88 | 70-130 | 9 | 35 | mg/kg | 05.15.18 20:46 | |
| Toluene | <0.00200 | 0.0998 | 0.0706 | 71 | 0.0808 | 81 | 70-130 | 13 | 35 | mg/kg | 05.15.18 20:46 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0577 | 58 | 0.0707 | 71 | 70-130 | 20 | 35 | mg/kg | 05.15.18 20:46 | X |
| m,p-Xylenes | <0.00399 | 0.200 | 0.117 | 59 | 0.145 | 73 | 70-130 | 21 | 35 | mg/kg | 05.15.18 20:46 | X |
| o-Xylene | <0.00200 | 0.0998 | 0.0605 | 61 | 0.0727 | 73 | 70-130 | 18 | 35 | mg/kg | 05.15.18 20:46 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 102 | | 70-130 | % | 05.15.18 20:46 |
| 4-Bromofluorobenzene | 98 | | 96 | | 70-130 | % | 05.15.18 20:46 |

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

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

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

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



Final 1.000

Page 148 of 591

XENCO LABORATORIES

*Setting the Standard since 1990*

Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)
San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

# CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 585994

## Client / Reporting Information

Company Name / Branch: LT Environmental, Inc - Permian Office
Company Address: 3300 North "A" Street, Building 1 Unit 103 Midland Tx 79705
Email: abaker@ltenv.com
Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Lynda Laumbach

## Project Information

Project Name/Number: Golden 8 Federal #1 / 012918065
Project Location: 2RP-3612
Invoice To: XTO Energy - Kyle Littrell
PO Number:

## Analytical Information

## Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Collection: Date | Collection: Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | BTEX 8021 (only BTEX) | TPH (MRO, DRO, GRO) 8015 | Chloride (300.0) | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS1 | 1.5' | 5/11/18 | 8:40 | Soil | 1 | | | | | | | | X | X | X | X | Excavation 2 |
| 2 | FS1 | 7' | | 9:00 | | | | | | | | | | X | X | X | X | Excavation 1 |
| 3 | SW1 | 7' | | 9:40 | | | | | | | | | | X | X | X | X | |
| 4 | SW2 | 7' | | 9:45 | | | | | | | | | | X | X | X | X | |
| 5 | SW3 | 7' | | 9:50 | | | | | | | | | | X | X | X | X | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

## Turnaround Time ( Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [x] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

## Data Deliverable Information

- [x] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Temp: 4.5°C IR ID:R-8
CF:(0-6: -0.2°C )
(6-23: +0.2°C)
Corrected Temp: 4.3°

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | Lynda Laumbach | 4:30 05-11-2018 | 1 Pamela L Weir | 2 | 5/14 15:30 | 2 [illegible] 10:35 5/15/18 |
| 3 | Relinquished by: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 5 | Relinquished by: | Date Time: | Received By: | Custody Seal # | Preserved where applicable | On Ice / Cooler Temp. / Thermo. Corr. Factor |

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 4/14/2026 3:17:09 PM
Final 1.000
Page 19 of 20
Released to Imaging: 4/21/2026 9:41:19 AM

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 05/15/2018 10:35:00 AM

**Work Order #:** 585994

**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)? | 4.3 | |
| #2 *Shipping container in good condition? | **Yes** | |
| #3 *Samples received on ice? | **Yes** | |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** | |
| #5 Custody Seals intact on sample bottles? | **N/A** | |
| #6*Custody Seals Signed and dated? | **N/A** | |
| #7 *Chain of Custody present? | **Yes** | |
| #8 Any missing/extra samples? | **No** | |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** | |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** | |
| #11 Container label(s) legible and intact? | **Yes** | |
| #12 Samples in proper container/ bottle? | **Yes** | TPH received in bulk container |
| #13 Samples properly preserved? | **Yes** | |
| #14 Sample container(s) intact? | **Yes** | |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** | |
| #16 All samples received within hold time? | **Yes** | |
| #17 Subcontract of sample(s)? | **No** | |
| #18 Water VOC samples have zero headspace? | **N/A** | |

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Katie Lowe Date: 05/15/2018

**Checklist reviewed by:** Jessica Kramer Date: 05/15/2018

Jessica Kramer

**ATTACHMENT 2**

**FORM C-141s**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED
JUN 22 2010
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-26931
nKMW 1035646177

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company BOPCO, L.P. 260737 | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name: Golden 8 Federal Battery #1 | Facility Type E&P |

| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|---|---|---|

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | Eddy |

**Latitude** N 32.491438 **Longitude** W 104.008147

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil | Volume of Release: 90 Bbls of Crude oil | Volume Recovered: 80 bbls of crude oil |
| Source of Release: Drain line connection on the back of a 500 bbl. tank | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 6/14/10 8:56 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Randy NMOCD on call operator | |
| By Whom? Tony Savoie | Date and Hour 6/14/10 9:24 a.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The drain line connection on the back of the tank failed due to internal corrosion, the remaining oil in the tank was removed, the tank was cleaned, inspected and repaired by replacing the connections and coating the tank internally.

Describe Area Affected and Cleanup Action Taken.*The released fluid affected an area of approximately 2,000 sq. ft inside the earthen containment around the tanks. The free standing fluids were removed. The heavily saturated soil is in the process of being removed and placed on plastic. The area inside the containment area will be sampled to determine vertical extent; a remediation plan along with a new containment plan will be submitted. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Mgmt.& Remediation Specialist

E-mail Address: TASavoie@BassPet.com

Date: 6/22/10 Phone:432-556-8730

## OIL CONSERVATION DIVISION

Approved by District Supervisor:

Signed By Mike Bratcher

Approval Date: 3/3/11 Expiration Date:

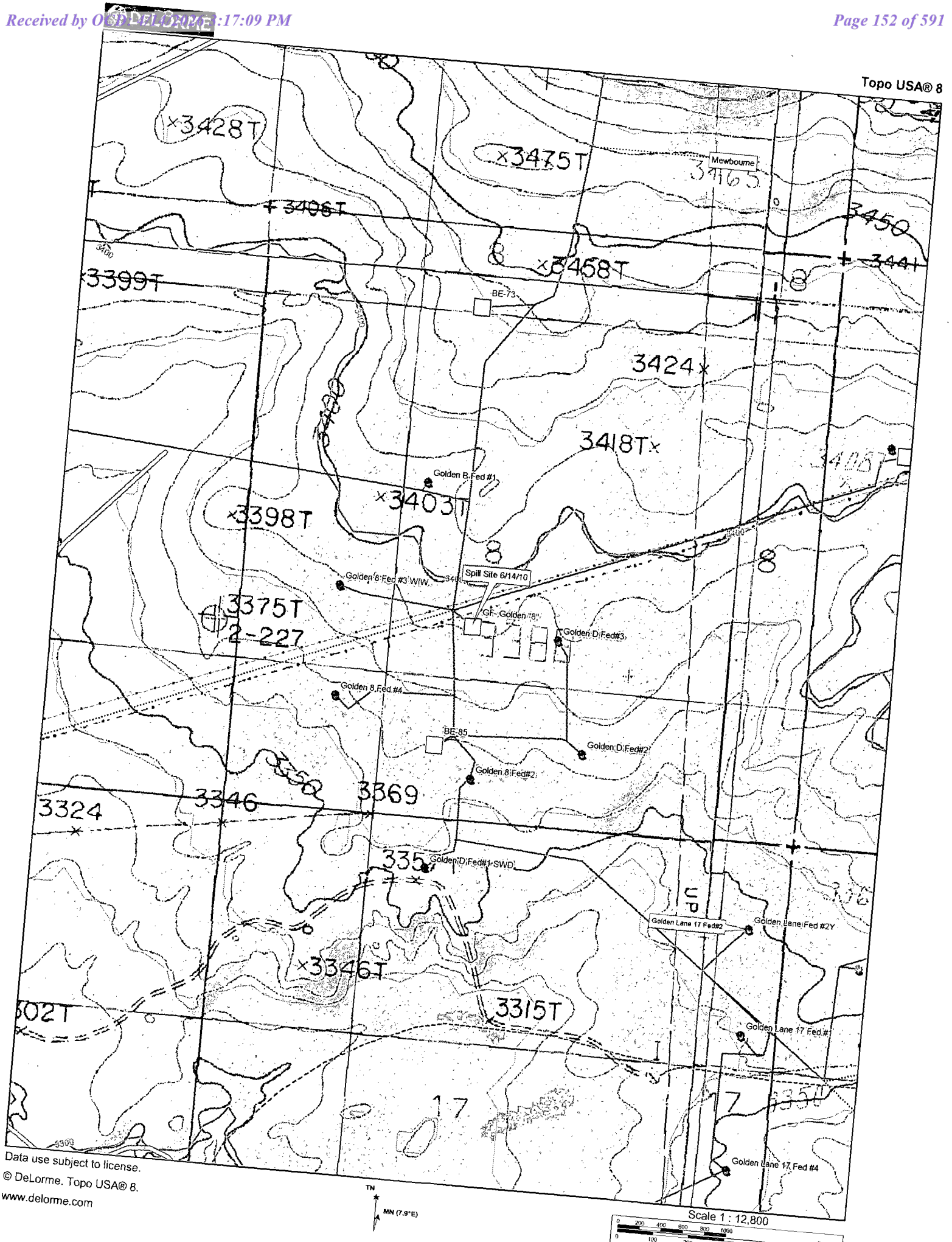
Conditions of Approval:

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/3/11

Attached ☐

2RP-521

* Attach Additional Sheets If Necessary


Topo USA® 8
Mewbourne
BE-73
Golden B Fed #1
Golden 8 Fed #3 WIW
Spill Site 6/14/10
GF Golden "8"
Golden D Fed#3
Golden 8 Fed #4
BE-85
Golden D Fed#2
Golden 8 Fed#2
Golden D Fed#1 SWD
Golden Lane 17 Fed#2
Golden Lane Fed #2Y
Golden Lane 17 Fed #
Golden Lane 17 Fed #4
3428T
3475T
3406T
3399T
3468T
3424
3418T
3403T
3398T
3375T
2-227
3324
3346
3369
335
3346T
3315T
502T
17
Data use subject to license.
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TN
MN (7.9°E)
Scale 1 : 12,800
1" = 1,066.7 ft
Data Zoom 14-0

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-0521) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | |

**Latitude** N 32.491438 **Longitude** W 104.008147

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release: 90 bbls of crude oil | Volume Recovered: 80 bbls of crude oil |
| Source of Release: Drain line connection on the back of a 500 bbl. tank | Date and Hour of Occurrence: Unknown | Date and Hour of Discovery: 6/14/10 8:56 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Randy NMOCD on call operator | |
| By Whom? Tony Savoie | Date and Hour: 6/14/10 9:24 a.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The drain line connection on the back of the tank failed due to internal corrosion, the remaining oil in the tank was removed, the tank was cleaned, inspected and repaired by replacing the connections and coating the tank internally.

Describe Area Affected and Cleanup Action Taken.* The released fluid affected an area of approximately 2,000 sq. ft inside the earthen containment around the tanks. The free standing fluids were removed. The heavily saturated soil is in the process of being removed and placed on plastic. The area inside the containment area will be sampled to determine vertical extent; a remediation plan along with a new containment plan will be submitted. The site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-26931
nKMW1106629393

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company BOPCO, L.P. 260737 | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name: Golden 8 Federal Battery #1 | Facility Type E&P |

| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|---|---|---|

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | Eddy |

**Latitude_N 32.491352___ Longitude W 104.008223**

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release: 310 Bbls Crude oil | Volume Recovered: 290 |
| Source of Release: 500 bbl tank overflow | Date and Hour of Occurrence 2/16/11 hour not known | Date and Hour of Discovery 2/16/11 10:00 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD emergency reporting. Left message with details. | |
| By Whom? Tony Savoie | Date and Hour 2/16/11 1:30 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

RECEIVED
MAR 02 2011
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. Oil product tank overflowed due to a heater-treater malfunction. The heater-treater was repaired and put back in service.

Describe Area Affected and Cleanup Action Taken.*An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/6/10. The oil saturated soil outside the containment was removed by Basin Env. using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment. The area inside the containment was covered with soil to absorb small areas of free product. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Mgmt.& Remediation Specialist

E-mail Address: TASavoie@BassPet.com

Date: 3/3/11 Phone:432-556-8730

* Attach Additional Sheets If Necessary

## OIL CONSERVATION DIVISION

Approved by District Supervisor:
Signed By: Mike Bratcher

Approval Date: 3/7/11 Expiration Date:

Conditions of Approval:

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/7/11

Attached ☐

2RP-633

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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-0633) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | Eddy |

**Latitude** N 32.491352 **Longitude** W 104.008223

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release : 310 bbls Crude oil | Volume Recovered: 290 bbls |
| Source of Release: 500 bbl tank overflow | Date and Hour of Occurrence: 2/16/11 hour not known | Date and Hour of Discovery: 2/16/11 10:00 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD emergency reporting. Left message with details. | |
| By Whom? Tony Savoie | Date and Hour: 2/16/11 1:30 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. Oil product tank overflowed due to a heater-treater malfunction. The heater-treater was repaired and put back in service.

Describe Area Affected and Cleanup Action Taken.* An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/6/10. The oil saturated soil outside the containment was removed by Basin Env. using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment. The area inside the containment was covered with soil to absorb small areas of free product. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

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

RECEIVED
NOV 26 2013
NMOCD ARTESIA

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nJMW 13330536660

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. 260737 | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.491141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil and produced water | Volume of Release: 6 Bbls of crude oil and 15 Bbls water | Volume Recovered: 3 Bbls oil and 2 Bbls water. |
| Source of Release: Heater-treater fire tube | Date and Hour of Occurrence: Date 11/25/13 Time unknown | Date and Hour of Discovery: Date 11/25/13 Time approximately 9:00 a.m. |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report dated 2/16/11. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous spill.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Management and Remediation Specialist

E-mail Address: tasavoie@basspet.com

Date: Phone: 432-556-8730

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: NOV 26 2013 Expiration Date:

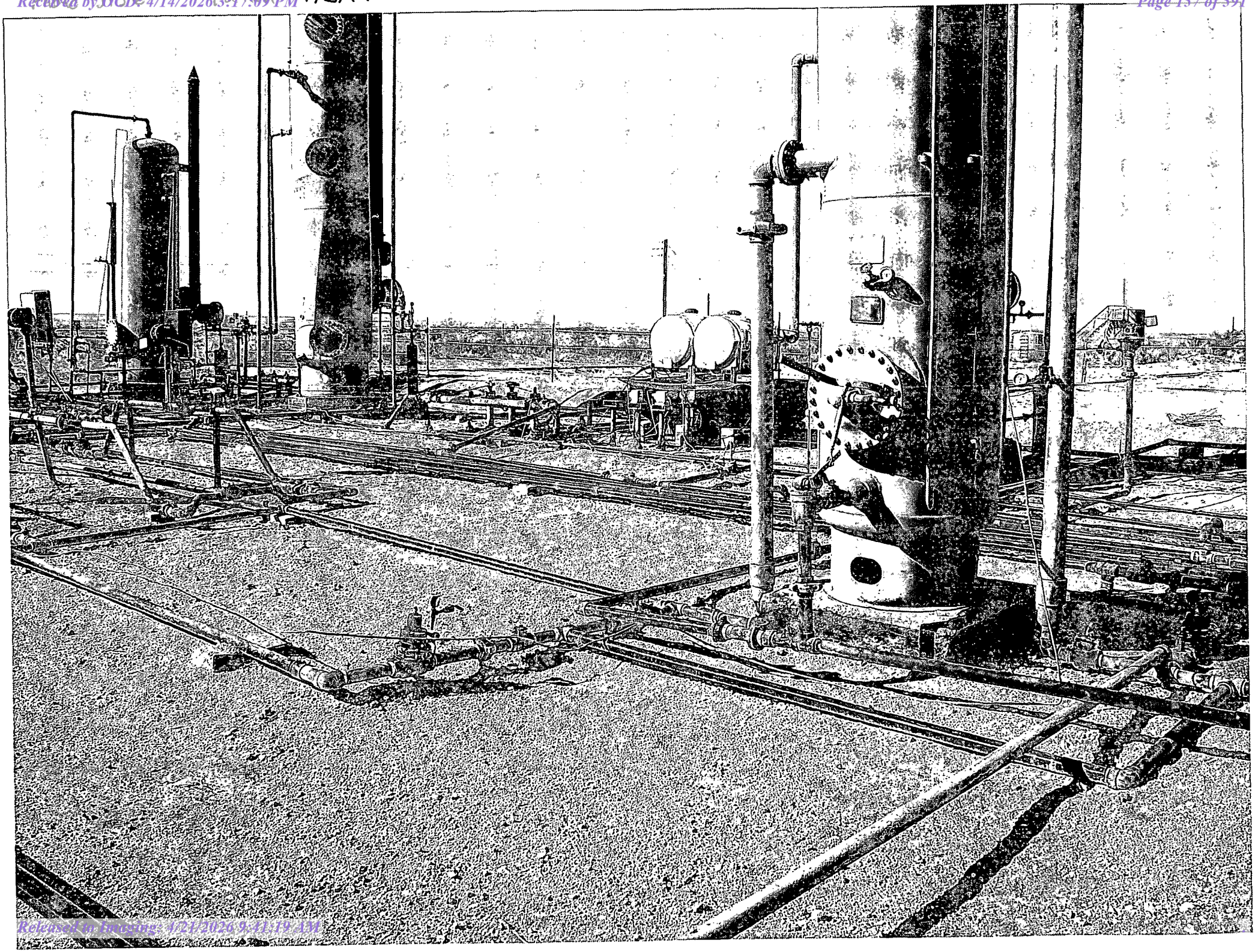
Conditions of Approval:
Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: December 26, 2013

Attached ☐

2RP-2082

* Attach Additional Sheets If Necessary

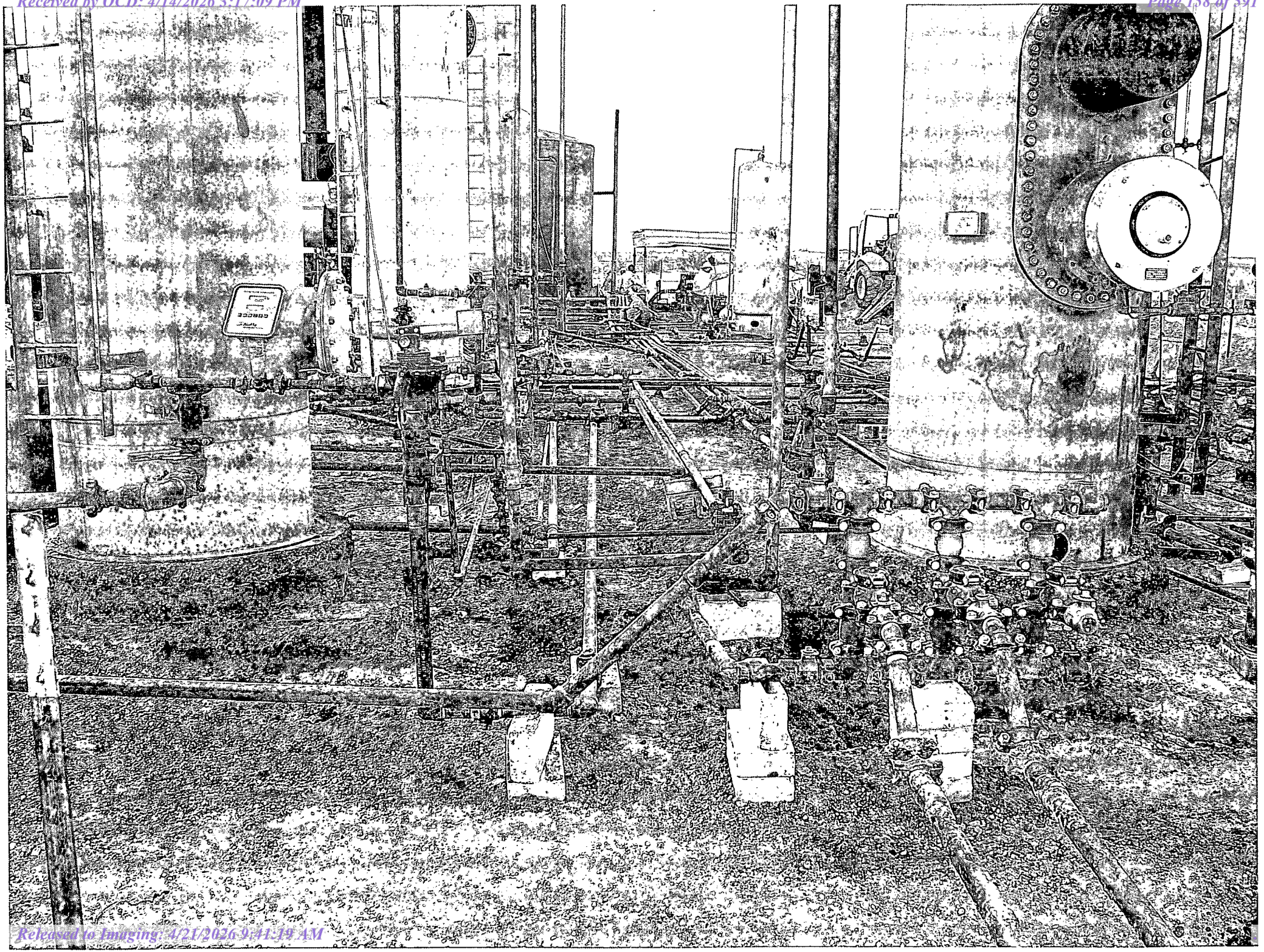
Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

Received by OCD: 4/14/2026 3:17:09 PM

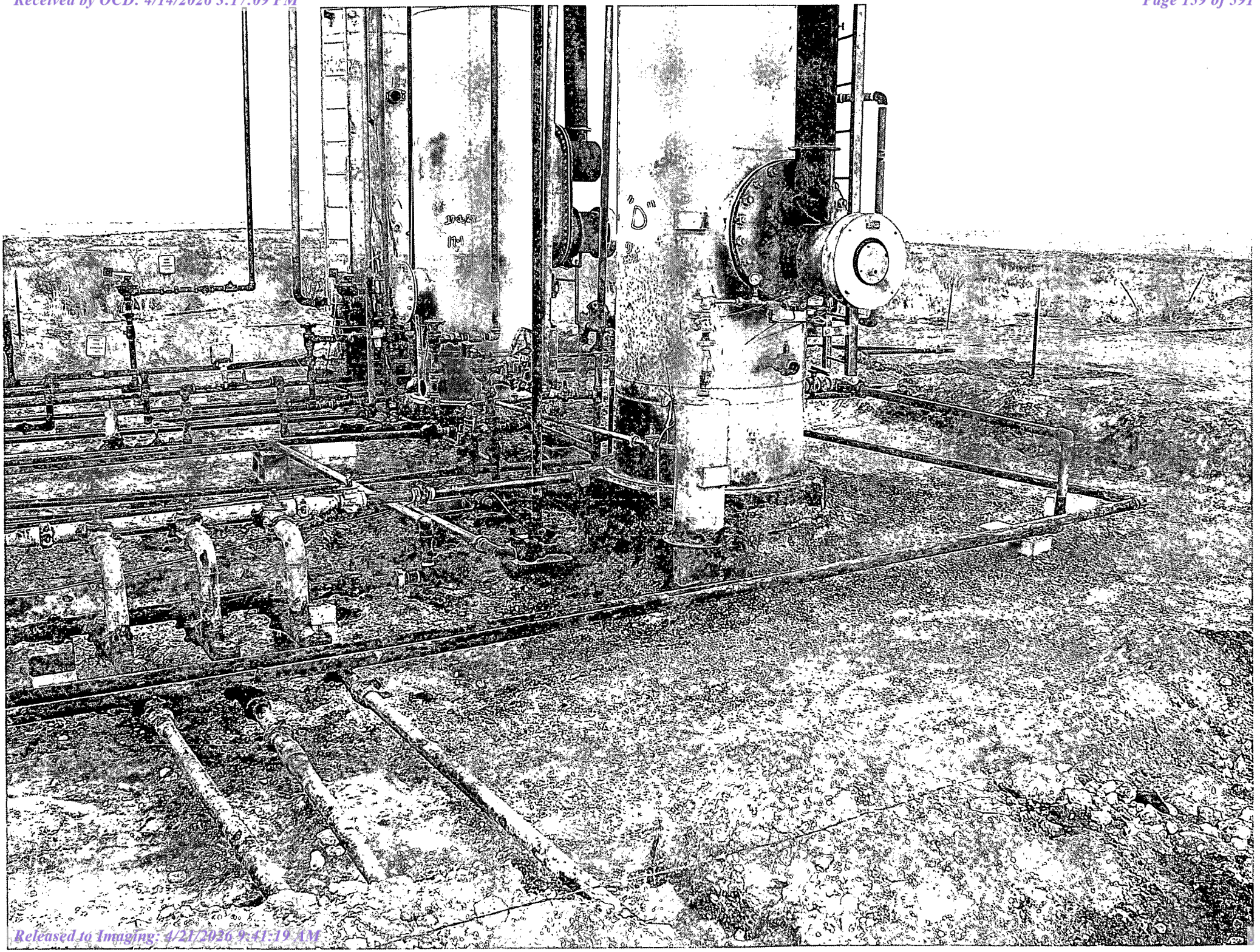

Photo 2982 Taken 8/3/11



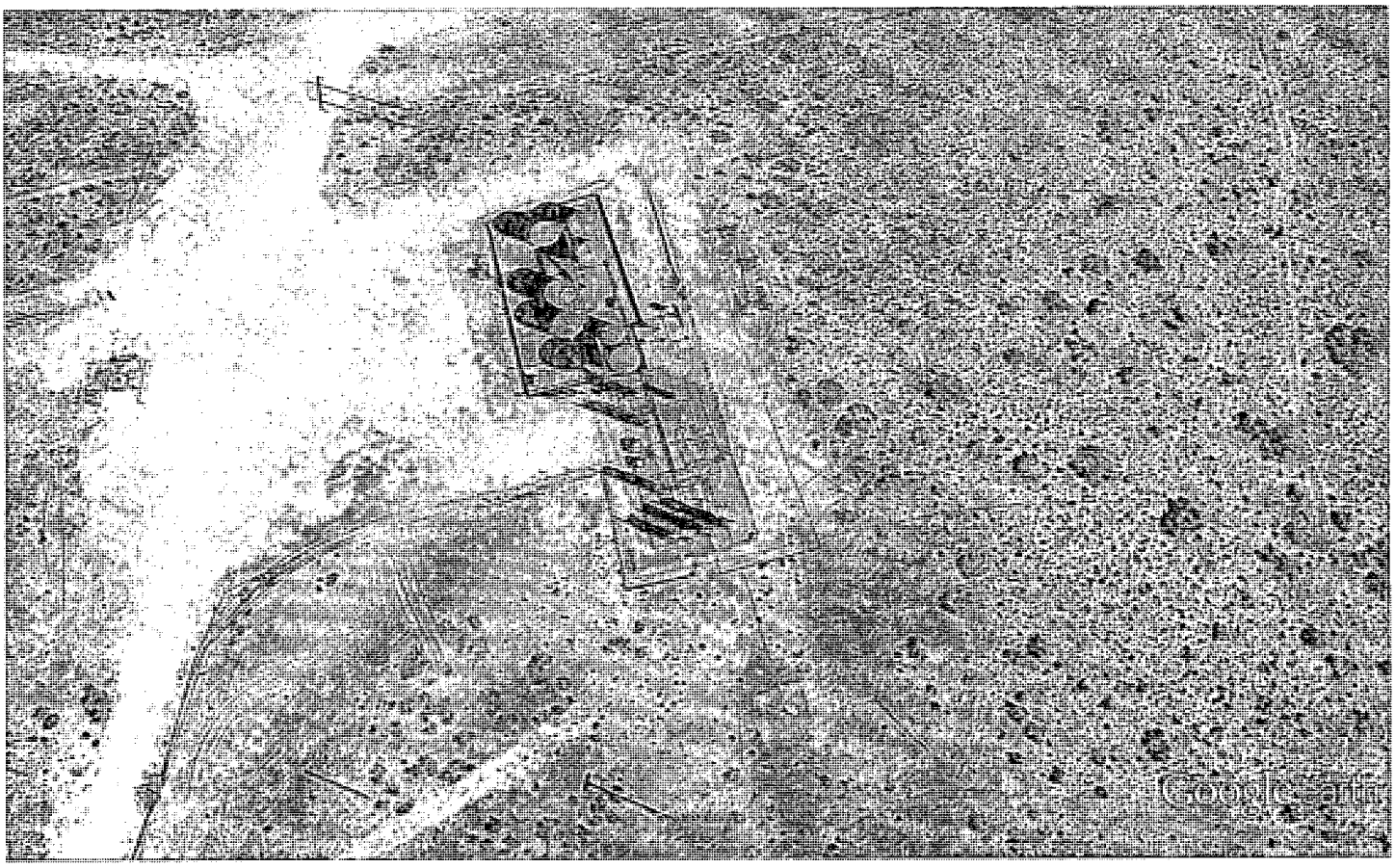
Released to Imaging: 4/21/2026 9:41:19 AM

Received by OCD: 4/14/2026 3:17:09 PM


Photo 2981 Taken 8/3/11



Released to Imaging: 4/21/2026 9:41:19 AM


Google earth
feet
200
meters
80

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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-2082) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | west | Eddy |

**Latitude** N 32.491141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release Crude oil and produced water | Volume of Release: 6 bbls of crude oil and 15 bbls of water | Volume Recovered: 3 bbls oil and 2 bbls of water |
| Source of Release: Heater-treater fire tube | Date and Hour of Occurrence 11/25/13 time unknown | Date and Hour of Discovery 11/25/13 ~9:00 |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour: | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report dated 2/16/11. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous spill.

LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

* Attach Additional Sheets If Necessary

ARTESIA DISTRICT
AUG 13 2014
RECEIVED

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nAB1422637219

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. 260737 | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.491141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil and produced water | Volume of Release: 3 Bbls of crude oil and 38 Bbls water | Volume Recovered: 1 Bbl. oil and 17 Bbls water. |
| Source of Release: Victaulic fitting on the production header. | Date and Hour of Occurrence: Date 8/12/14 Time unknown | Date and Hour of Discovery: Date 8/12/14 Time approximately 10:30 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD Emergency #104 | |
| By Whom? Tony Savoie | Date and Hour: 8/12/14 at 12:10 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 13 2014
RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A Victaulic gasket failed on the production header due to a normally open valve was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-633. And the same are as impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous two spills.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Management and Remediation Specialist

E-mail Address: tasavoie@basspet.com

Date:8/13/14 Phone: 432-556-8730

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Brandon Bowman

Approval Date: 8/14/14 Expiration Date: N/A

Conditions of Approval:
Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 2RP-2439

Attached ☐

* Attach Additional Sheets If Necessary

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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-2439) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.4911141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil and produced water | Volume of Release: 3 bbls of crude oil and 38 bbls water | Volume Recovered: 1 bbl oil and 17 bbls water |
| Source of Release: Victaulic fitting on the production heater | Date and Hour of Occurrence: Date 8/12/14 time unknown | Date and Hour of Discovery: Date 8/12/14 time approximately 10:30 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD emergency #104 | |
| By Whom? Tony Savoie | Date and Hour: 8/12/14 time approximately 12:10 a.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A Victaulic gasket failed on the production header due to a normally open valve that was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal.

Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-633. And the same are as impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous two spills.
LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 15 2016
RECEIVED

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nAB1607837012 260737

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. | Contact: Amy Ruth |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden 8 Federal #001 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

Latitude 32.491242° Longitude -104.008322°

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release: 30 bbls | Volume Recovered: 7 bbls |
| Source of Release: Heater Gasket | Date and Hour of Occurrence: 2/1/2016 time unknown | Date and Hour of Discovery: 2/1/2016 |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM) | |
| By Whom? Brad Blevins | Date and Hour 2/2/2016 3:26 pm | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Gasket seal in heater treater ruptured and released fluids onto location and pasture. Operator switched out vessels until repairs could be made to treater gasket.

Describe Area Affected and Cleanup Action Taken.*
Leak affected 3060 square feet of well pad and approximately 600 square feet of pasture to the east of the battery. Standing fluids were recovered.

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.

Signature:
Printed Name: Amy C. Ruth
Title: EHS Remediation Specialist
E-mail Address: ACRuth@basspet.com
Date: 3-15-2016 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By: Mike Bratcher

Approval Date: 3/21/16 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
~~SUBMIT REMEDIATION PROPOSAL NO~~
LATER THAN: 4/21/16

2RP-3612

* Attach Additional Sheets If Necessary

## Bratcher, Mike, EMNRD

**From:** Ruth, Amy C. <ACRuth@BassPet.Com>
**Sent:** Tuesday, March 15, 2016 2:59 PM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
**Cc:** Biehl, William "Bill"
**Subject:** RE: Golden 8 Federal 001
**Attachments:** Initial C-141 Golden 8 Federal Battery 2-1-16.pdf

Hello Mike/Heather,

I've been on medical leave since the beginning of February. Brad would have turned in this C-141 to you, but I stubbornly told him I would get it to you to save him the trouble. I had since been incapacitated and you can see where that has gotten us! My apologies, here is the very late initial C-141 for the spill notified to you on the date below. Please call me with any questions/concerns. I also have one more to submit that is late that was not immediately reportable but occurred on the same day. That was at the JRU 36 and that C-141 will follow this email. As always, thank you for your patience... :)

-----Original Message-----
From: Blevins, Bradley
Sent: Tuesday, February 02, 2016 3:26 PM
To: mike.bratcher@state.nm.us; heather.patterson@state.nm.us; Jim Amos
Cc: Blevins, Bradley; Ruth, Amy C.
Subject: Golden 8 Federal 001

All,
Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

## Bratcher, Mike, EMNRD

**From:** Blevins, Bradley <BBlevins@BassPet.Com>
**Sent:** Tuesday, February 02, 2016 3:26 PM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Jim Amos
**Cc:** Blevins, Bradley; Ruth, Amy C.
**Subject:** Golden 8 Federal 001

All,
Bopco EHS was notified of a release that occurred on the Golden 8 Federal 001 due to a man way gasket failure on the heater treater. The majority of the heavy saturation remained inside the earthen firewall but there was an overspray area to the east of the production equipment. It is estimated that 29 barrels of oil was released with 7 barrels oil being recovered by vacuum truck. If you have any additional questions please let me know. Thanks

Sent from my iPhone

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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-3612) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.491242 **Longitude** W 104.008322

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil | Volume of Release: 30 bbls | Volume Recovered: 7 bbls |
| Source of Release: Heater Gasket | Date and Hour of Occurrence: 2/1/2016 time unknown | Date and Hour of Discovery 2/1/2016 |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM) | |
| By Whom? Brad Belvins | Date and Hour: 2/2/2016 3:26 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* Gasket seal in heater treater ruptured and released fluids onto location and pasture. Operator switched out vessels until repairs could be made to treater gasket.

Describe Area Affected and Cleanup Action Taken.*
Leak affected 3060 square feet of well pad and approximately 600 square feet of pasture to the east of the battery. Standing fluids were recovered.

LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 29 2016
RECEIVED

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nAB1633656856 2007737

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. | Contact: Amy Ruth |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden Federal Battery #1 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1667 | South | 2300 | West | Eddy |

**Latitude** 32.491322° **Longitude** -104.007868°

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release: 32 bbls | Volume Recovered: 30 bbls |
| Source of Release: 3 Phase Vessel | Date and Hour of Occurrence: 11/26/2016 time unknown | Date and Hour of Discovery: 11/26/2016 approx. 10 am by operator |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD) and Jim Amos/Shelly Tucker (BLM) | |
| By Whom? Amy Ruth (within 2 hours of being notified) | Date and Hour 11/28/2016 11:19 am | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Unused 3 phase vessel re-fitted and returned to operation. Fluids released from vessel through pressure relief valve and leaking Vic connections. Fluids escaped mostly into zero permeability containment.

Describe Area Affected and Cleanup Action Taken.*
The leak affected a total of about 3,168 square feet of caliche pad, zero permeability containment, and misted pasture east of the location. Free standing liquids were recovered via vacuum truck and equipment, tanks, and liner were power washed. Vessel was isolated.

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.

Signature: Amy Ruth

Printed Name: Amy C. Ruth

Title: EHS Environmental Supervisor

E-mail Address: ACRuth@basspet.com

Date: 11/29/2016 Phone: 432-661-0571

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Shelly Bratcher

Approval Date: 11/29/16 Expiration Date: N/A

Conditions of Approval: Attached ☑

* Attach Additional Sheets If Necessary

2RP-4017

## Bratcher, Mike, EMNRD

**From:** Ruth, Amy C. <ACRuth@BassPet.Com>
**Sent:** Tuesday, November 29, 2016 2:50 PM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** RE: Release Notification - Golden Federal Battery 11-26-16
**Attachments:** Initial C-141 Golden Federal Battery 11-26-16.pdf

Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

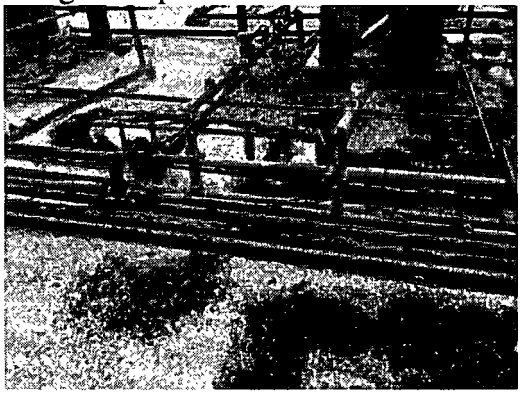
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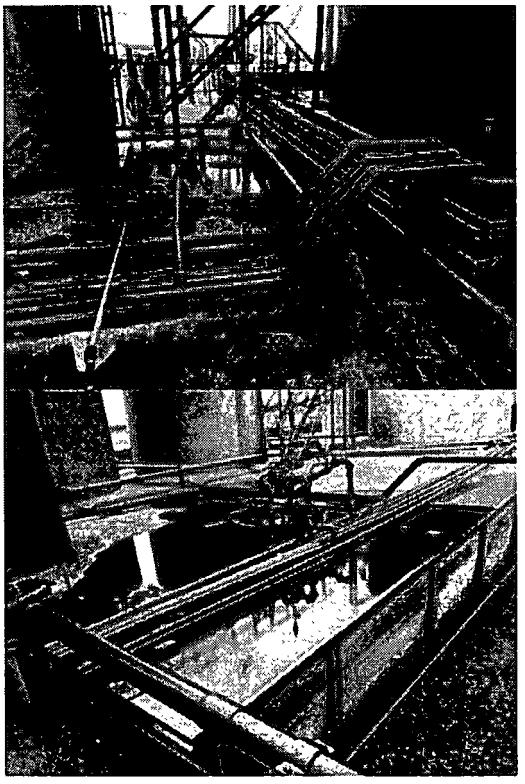
**From:** Ruth, Amy C.
**Sent:** Monday, November 28, 2016 11:19 AM
**To:** 'Mike Bratcher'; 'Heather.Patterson@state.nm.us'
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** Release Notification - Golden Federal Battery 11-26-16

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p.
Latitude: 32.491241
Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.





*Amy C. Ruth*
**BOPCO, L.P.**
EH&S Department
522 W. Mermod, Suite 704
Carlsbad, NM 88220
O: (575)689-3380
C: (432)661-0571

## Bratcher, Mike, EMNRD

**From:** Ruth, Amy C. <ACRuth@BassPet.Com>
**Sent:** Monday, November 28, 2016 11:19 AM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** Release Notification - Golden Federal Battery 11-26-16

BOPCO

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p.
Latitude: 32.491241
Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.



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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-01526931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1667 | South | 2300 | West | Eddy |

**Latitude** N 32.491322 **Longitude** W 104.007868

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil | Volume of Release: 32 bbls | Volume Recovered: 30 bbls |
| Source of Release: 3 phase vessel | Date and Hour of Occurrence: 11/26/2016 time unknown | Date and Hour of Discovery 11/26/2016 approx. 10 a.m. by operator |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Heather Patterson (NMOCD), Jim Amos/Shelly Tucker (BLM) | |
| By Whom? Amy Ruth | Date and Hour: 11/28/2016 11:19 a.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* Unused 3 phase vessel re-fitted and returned to operation. Fluids released from vessel through pressure relief valve and leaking Vic connections. Fluids escaped mostly into an impermeable containment.

Describe Area Affected and Cleanup Action Taken.* The leak affected a total of about 3,168 square feet of caliche pad, lined containment, and misted pasture east of the location. Free standing liquids were recovered via vacuum truck and equipment, tanks, and liner were power washed. Vessel was isolated.
LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

* Attach Additional Sheets If Necessary

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
FEB 02 2018
RECEIVED

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nAB1803638613 BOPCO 2H0737

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: XTO Energy, Inc. | Contact: Kyle Littrell |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (Well #1 was P&A in 2011) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1530 | South | 2375 | West | Eddy |

**Latitude** 32.490876° **Longitude** -104.007627°

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Fire/Crude Oil | Volume of Release: <1 bbl | Volume Recovered: 0 bbl |
| Source of Release: Flare | Date and Hour of Occurrence: 1/18/2018, 10:00 AM | Date and Hour of Discovery: 1/18/2018, 10:00 AM |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD), Shelly Tucker/Jim Amos (BLM) | |
| By Whom? Kyle Littrell | Date and Hour 1/18/2018 2:03 PM | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Fluid meters plugged and dump valve failed causing fluid to exit the facility flare. A small amount of exiting fluids ignited and impacted the ground within flare earthen berm. Dump valve was manually opened and all wells flowing into location were shut in.

Describe Area Affected and Cleanup Action Taken.*
Fire briefly impacted approximately 250 square feet and was extinguished. Oil misted approximately 2600 square feet of surrounding area (mostly to the west and east). An environmental contract company applied MicroBlaze to the affected area and will continue to assist with remediation efforts.

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.

| | |
|---|---|
| Signature: | OIL CONSERVATION DIVISION |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: |
| Title: Environmental Coordinator | Approval Date: 2/5/18 Expiration Date: N/A |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: See attached Attached ☒ 2RP-4601 |
| Date: 2/1/2018 Phone: 432-221-7331 | |

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **2/2/18** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4601 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/2/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; $C_6$ thru $C_{36}$), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

## Weaver, Crystal, EMNRD

**From:** Ruth, Amy <Amy_Ruth@xtoenergy.com>
**Sent:** Friday, February 2, 2018 9:49 AM
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
**Cc:** Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
**Subject:** Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
**Attachments:** Initial C-141 - Golden Federal D,8,17 CTB 1-18-18.pdf

Good Morning,

Please find attached the initial form C-141 detailing the accidental release of fluids and associated fire at the referenced facility. Thank you and contact us any time with questions or concerns.

Respectfully,

*Amy C. Ruth*
Delaware Basin Division
Environmental Coordinator
3104 E. Greene Street | Carlsbad, NM 88220 | M: 432.661.0571 | O: 575.689.3380

This document may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended recipient, you are notified that any unauthorized disclosure, copying, distribution or action on/of the contents of this document is prohibited.

---

**From:** Littrell, Kyle
**Sent:** Thursday, January 18, 2018 2:03 PM
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
**Cc:** Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
**Subject:** Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

**Kyle Littrell**
EH&S Coordinator
XTO Energy Inc.
Delaware Division
Phone:(432)-221-7331 | Mobile:(970)-317-1867
kyle_littrell@xtoenergy.com

## Bratcher, Mike, EMNRD

**From:** Littrell, Kyle <Kyle_Littrell@xtoenergy.com>
**Sent:** Thursday, January 18, 2018 2:03 PM
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly; Jim Amos
**Cc:** Sanders, Toady; McSpadden, Wes; Ruth, Amy; Foust, Bryan
**Subject:** Release Notification - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

Good Afternoon,

This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately 25'w X 10'l). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

**Kyle Littrell**
EH&S Coordinator
XTO Energy Inc.
Delaware Division
Phone:(432)-221-7331 | Mobile:(970)-317-1867
kyle_littrell@xtoenergy.com

An **ExxonMobil** Subsidiary

## Bratcher, Mike, EMNRD

**From:** Ruth, Amy C. <ACRuth@BassPet.Com>
**Sent:** Tuesday, November 29, 2016 2:50 PM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** RE: Release Notification - Golden Federal Battery 11-26-16
**Attachments:** Initial C-141 Golden Federal Battery 11-26-16.pdf

Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

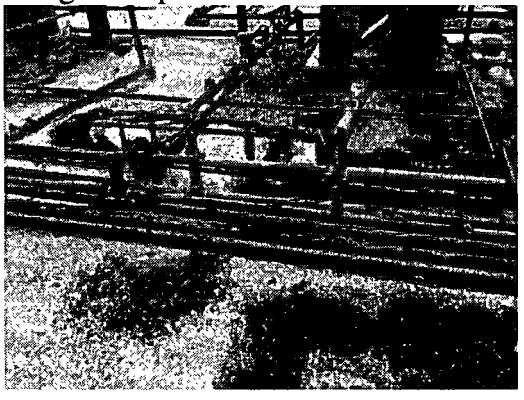
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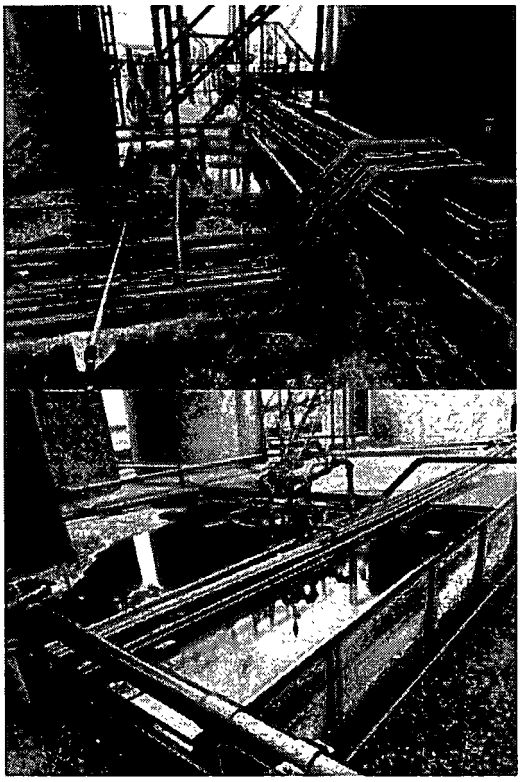
**From:** Ruth, Amy C.
**Sent:** Monday, November 28, 2016 11:19 AM
**To:** 'Mike Bratcher'; 'Heather.Patterson@state.nm.us'
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** Release Notification - Golden Federal Battery 11-26-16

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p.
Latitude: 32.491241
Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.





*Amy C. Ruth*

**BOPCO, L.P.**

EH&S Department

522 W. Mermod, Suite 704
Carlsbad, NM 88220
O: (575)689-3380
C: (432)661-0571

## Bratcher, Mike, EMNRD

**From:** Ruth, Amy C. <ACRuth@BassPet.Com>
**Sent:** Monday, November 28, 2016 11:19 AM
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
**Cc:** jamos@blm.gov; Tucker, Shelly
**Subject:** Release Notification - Golden Federal Battery 11-26-16

BOPCO

Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

Name: golden federal battery bopco, l.p.
Latitude: 32.491241
Longitude: -104.008324

Lease operator reported release on 11/26/2016 due to PRV on three phase vessel popping and Vic connections on vessel leaking. The majority of fluid was released into impervious containment and there was a mist oil & gas that affected soil and equipment. There was a vacuum truck dispatched to recover fluid from containment and ground puddles.



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

Form C-141
Revised April 3, 2017

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

# Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|---|
| Name of Company XTO Energy | Contact: Kyle Littrell |
| Address 3104 E Greene Street, Carlsbad, NM 88220 | Telephone No: 432-221-7331 |
| Facility Name: Golden 8 Federal Battery #1 (2RP-4601) | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner: Federal | API No. 30-01526931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1530 | South | 2375 | West | Eddy |

**Latitude** N 32.490876 **Longitude** W 104.007627

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Fire/Crude oil | Volume of Release: <1 bbls | Volume Recovered: 0 bbls |
| Source of Release: Flare | Date and Hour of Occurrence: 1/18/2018, 10:00AM | Date and Hour of Discovery 1/18/2018, 10:00AM |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Mike Bratcher/Crystal Weaver (NMOCD), Jim Amos/Shelly Tucker (BLM) | |
| By Whom? Kyle Littrell | Date and Hour: 1/18/18 2:03 pm | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse: N/A | |

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* Fluid meters plugged and dump valve failed to exit the facility flare. A small amount of exiting fluids ignited and impacted the ground within flare earthen berm. Dump valve was manually opened and all wells flowing into location were shut in.

Describe Area Affected and Cleanup Action Taken.* Fire briefly impacted approximately 250 square feet and was extinguished. Oil misted approximately 2,600 feet of surrounding area (mostly to the west and east). An environmental contract company applied Microblaze to the affected area and will continue to assist with remediation efforts.
LT Environmental collected 18 preliminary investigative soil samples between March 3, 2018 and May 11, 2018 to address this release and 6 others at the site. XTO excavated in areas where soil samples exceeded the NMOCD Remediation Action Levels, and LTE collected 8 excavation confirmation soil samples. Laboratory analytical results from the final soil samples indicate concentrations of BTEX, TPH, and chloride do not exceed NMOCD remediation action levels. XTO requests no further action for this site and will backfill and re-contour the excavation.

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.

| | | |
|---|---|---|
| Signature: | OIL CONSERVATION DIVISION | |
| Printed Name: Kyle Littrell | Approved by Environmental Specialist: | |
| Title: SH&E Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: Kyle_Littrell@xtoenergy.com | Conditions of Approval: | Attached ☐ |
| Date: 5/25/2018 Phone: 432-221-7331 | | |

* Attach Additional Sheets If Necessary

ENSOLUM

# APPENDIX B

# January 2, 2020 *Deferral Request – Addendum to the Original Closure Request* (Incident Numbers nKMW1035646177, nKMW1106629393, nJMW1333053660, and nAB1422637219)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED
JUN 22 2010
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-26931
nKMW 1035646177

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company BOPCO, L.P. 260737 | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name: Golden 8 Federal Battery #1 | Facility Type E&P |

| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|---|---|---|

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | Eddy |

**Latitude** N 32.491438 **Longitude** W 104.008147

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil | Volume of Release: 90 Bbls of Crude oil | Volume Recovered: 80 bbls of crude oil |
| Source of Release: Drain line connection on the back of a 500 bbl. tank | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 6/14/10 8:56 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? Randy NMOCD on call operator | |
| By Whom? Tony Savoie | Date and Hour 6/14/10 9:24 a.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The drain line connection on the back of the tank failed due to internal corrosion, the remaining oil in the tank was removed, the tank was cleaned, inspected and repaired by replacing the connections and coating the tank internally.

Describe Area Affected and Cleanup Action Taken.*The released fluid affected an area of approximately 2,000 sq. ft inside the earthen containment around the tanks. The free standing fluids were removed. The heavily saturated soil is in the process of being removed and placed on plastic. The area inside the containment area will be sampled to determine vertical extent; a remediation plan along with a new containment plan will be submitted. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Mgmt.& Remediation Specialist

E-mail Address: TASavoie@BassPet.com

Date: 6/22/10 Phone:432-556-8730

## OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed By Mike Bratcher

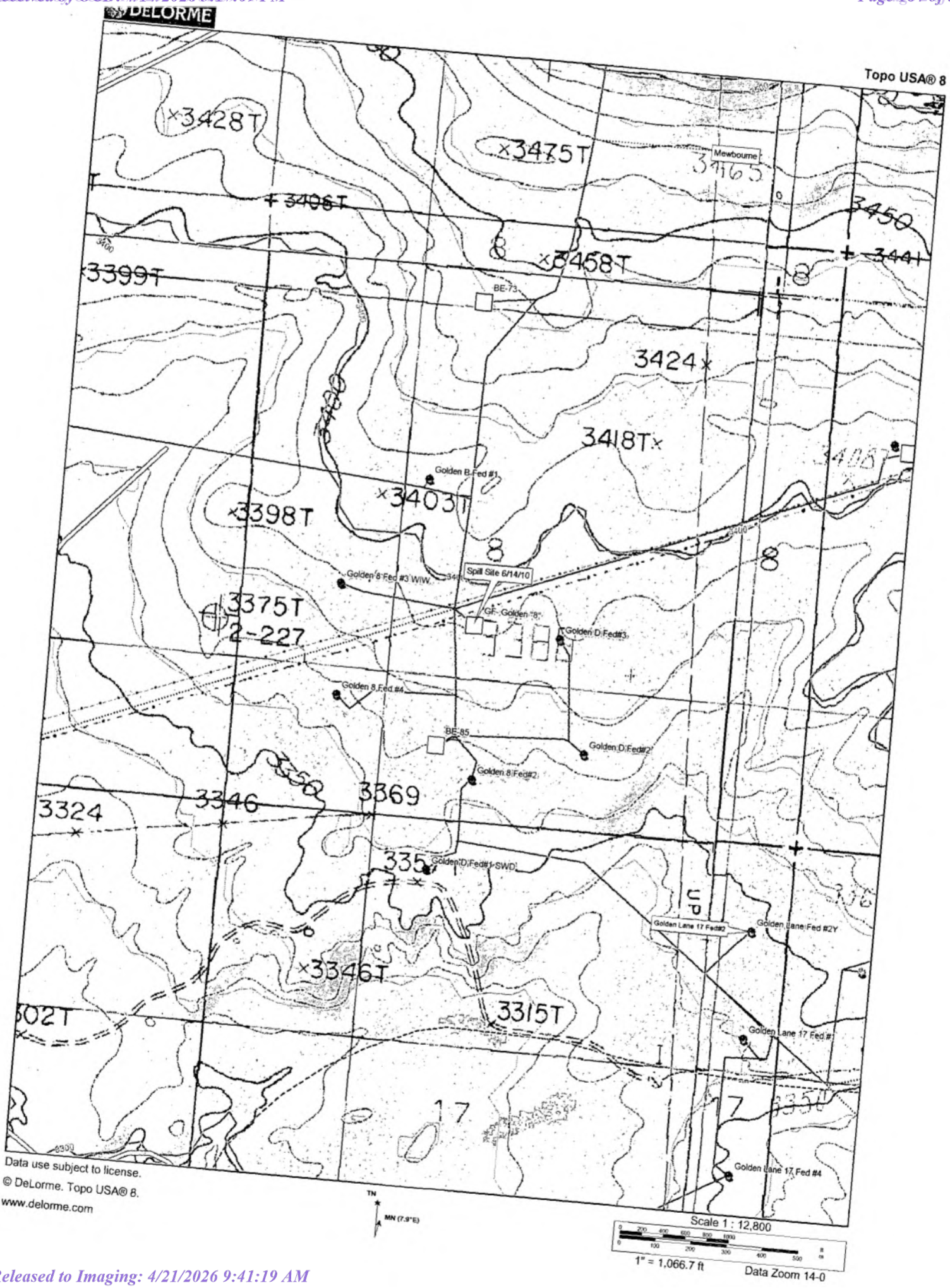
Approval Date: 3/3/11 Expiration Date:

Conditions of Approval: Attached ☐

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/3/11

2RP-521

* Attach Additional Sheets If Necessary


DELORME
Topo USA® 8
3428T
3475T
Mewbourne
3406T
3458T
3441
3399T
BE-73
3424
3418T
Golden B Fed #1
3403T
3398T
Golden 8 Fed #3 WIW
Spill Site 6/14/10
GF Golden "8"
3375T
2-227
Golden D Fed#3
Golden 8 Fed #4
BE-85
Golden D Fed#2
Golden 8 Fed#2
3324
3346
3369
335
Golden D Fed#1 SWD
Golden Lane 17 Fed#2
Golden Lane Fed #2Y
3346T
3315T
Golden Lane 17 Fed #
Golden Lane 17 Fed #4
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TN
MN (7.9°E)
Scale 1 : 12,800
1" = 1,066.7 ft
Data Zoom 14-0

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District III
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 | |
| District RP | 2RP-521 |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # *(assigned by OCD)* |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

## Location of Release Source

Latitude 32.491438 Longitude -104.008147
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Golden 8 Federal Battery #1 | Site Type Exploration and Production |
| Date Release Discovered 06/14/2010 | API# *(if applicable)* 30-015-26931 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| K | 8 | 21S | 29E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 90 | Volume Recovered (bbls) 80 |
| ☐ Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0521 |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☒ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br>Volume of release is greater than 25 bbls. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Tony Savoie (XTO) contacted the on-call NMOCD operator (Randy) on 06/14/2010 at 9:24 am. | |

## Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0521 |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0521 |
| 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: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nKMW1035646177 |
| District RP | 2RP-0521 |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

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

Signature: Bradford Billings Date: 07/23/2021

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

30-015-26931
nKMW1106629393

# Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company BOPCO, L.P. 260737 | Contact Tony Savoie |
| Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 432-556-8730 |
| Facility Name: Golden 8 Federal Battery #1 | Facility Type E&P |

| Surface Owner Federal | Mineral Owner Federal | Lease No. |
|---|---|---|

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | | | | | Eddy |

**Latitude_N 32.491352___ Longitude W 104.008223**

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude Oil | Volume of Release: 310 Bbls Crude oil | Volume Recovered: 290 |
| Source of Release: 500 bbl tank overflow | Date and Hour of Occurrence 2/16/11 hour not known | Date and Hour of Discovery 2/16/11 10:00 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD emergency reporting. Left message with details. | |
| By Whom? Tony Savoie | Date and Hour 2/16/11 1:30 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

RECEIVED
MAR 02 2011
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A 500 bbl. Oil product tank overflowed due to a heater-treater malfunction. The heater-treater was repaired and put back in service.

Describe Area Affected and Cleanup Action Taken.*An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/6/10. The oil saturated soil outside the containment was removed by Basin Env. using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment. The area inside the containment was covered with soil to absorb small areas of free product. The Site remediation for the crude oil spill will follow the NMOCD guidelines for leaks and spills.

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.

| | |
|---|---|
| Signature: Tony Savoie | OIL CONSERVATION DIVISION |
| Printed Name: Tony Savoie | Approved by District Supervisor: Signed By Mike Bratcher |
| Title: Waste Mgmt.& Remediation Specialist | Approval Date: 3/7/11 Expiration Date: |
| E-mail Address: TASavoie@BassPet.com | Conditions of Approval: Attached ☐ |
| Date: 3/3/11 Phone:432-556-8730 | Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 4/7/11 |

* Attach Additional Sheets If Necessary

2RP-633

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-0633 |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # *(assigned by OCD)* |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

## Location of Release Source

Latitude 32.491352 Longitude -104.008223
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Golden 8 Federal Battery #1 | Site Type Exploration and Production |
| Date Release Discovered 02/16/2011 | API# *(if applicable)* 30-015-26931 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| K | 8 | 21S | 29E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 310 | Volume Recovered (bbls) 290 |
| ☐ Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

A 500 bbl oil tank overflowed due to a heater-treater malfunction. The heater treater was repaired and put back into service. An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. was affected. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/06/2010. The oil saturated soil outside the containment was removed by Basin Env. Using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0633 |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☒ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br>Release volume was greater than 25 bbls. |

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, Tony Savoie contacted the NMOCD on 2/16/2011 via telephone (NMOCD emergency reporting).

## Initial Response

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

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

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

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0633 |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0633 |
| 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: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-0633 |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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

RECEIVED
NOV 26 2013
NMOCD ARTESIA

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nJMW 1333053660

**OPERATOR** ☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. 260737 | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.491141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil and produced water | Volume of Release: 6 Bbls of crude oil and 15 Bbls water | Volume Recovered: 3 Bbls oil and 2 Bbls water. |
| Source of Release: Heater-treater fire tube | Date and Hour of Occurrence: Date 11/25/13 Time unknown | Date and Hour of Discovery: Date 11/25/13 Time approximately 9:00 a.m. |
| Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

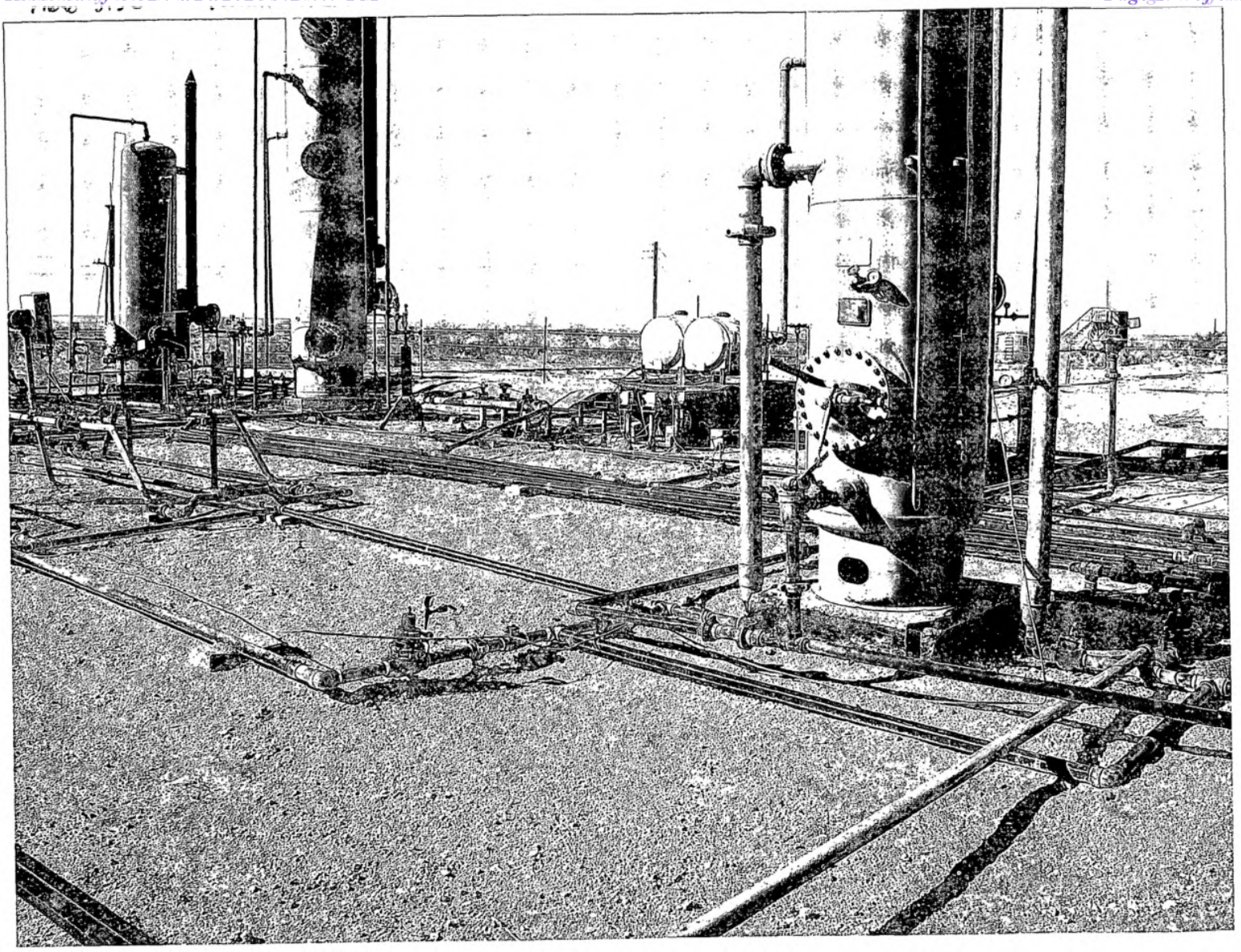
Describe Cause of Problem and Remedial Action Taken.*
The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product.

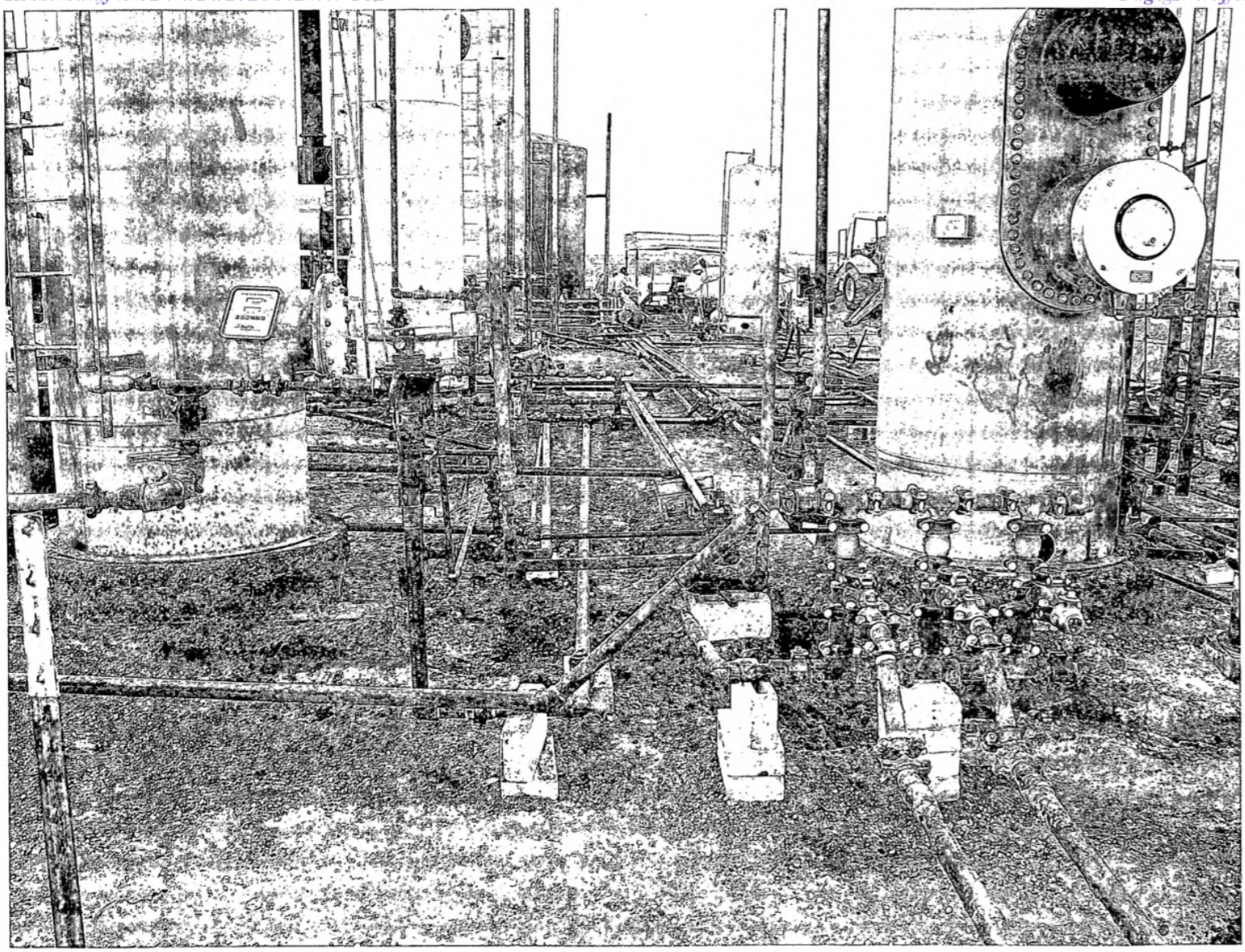
Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report dated 2/16/11. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous spill.

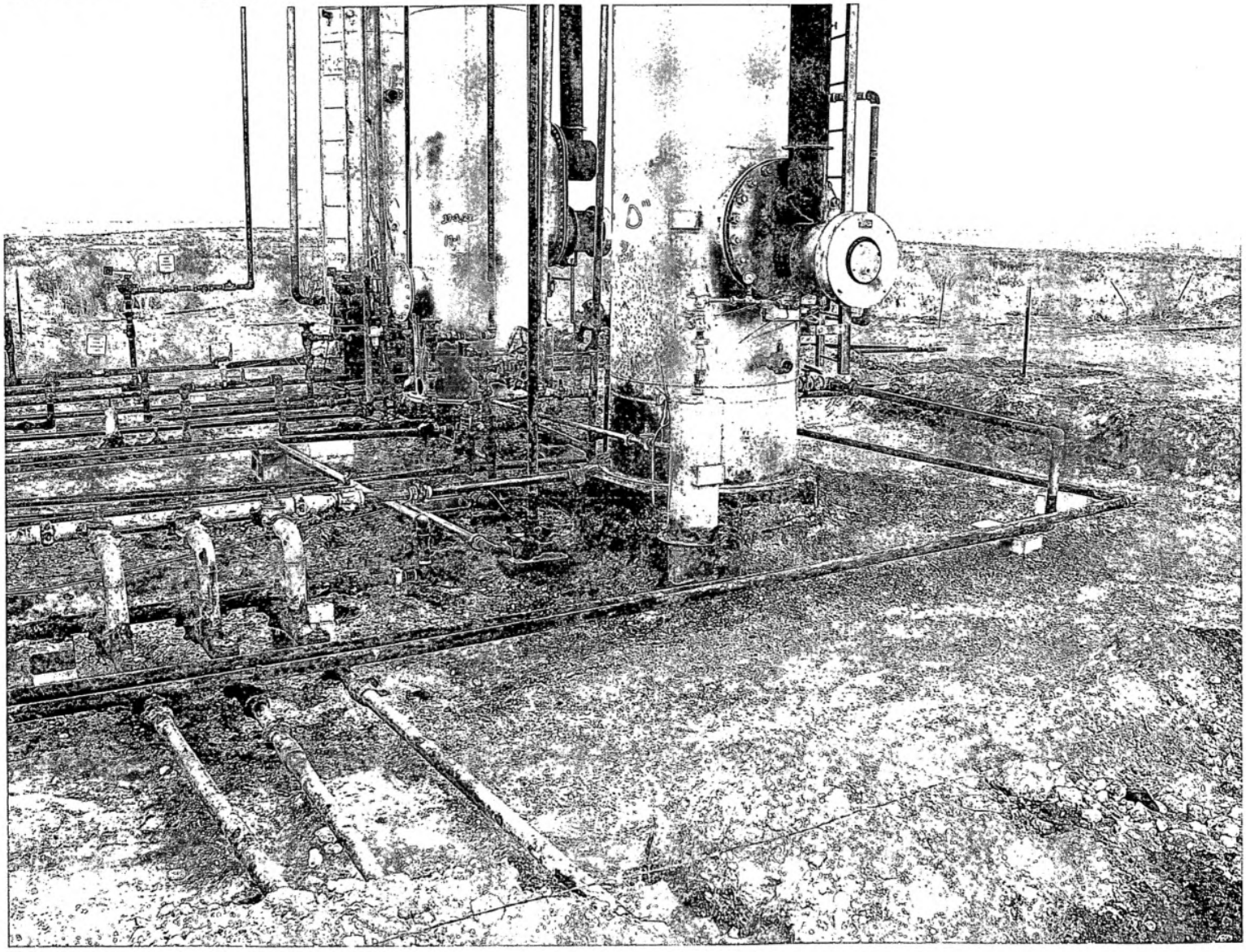
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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.

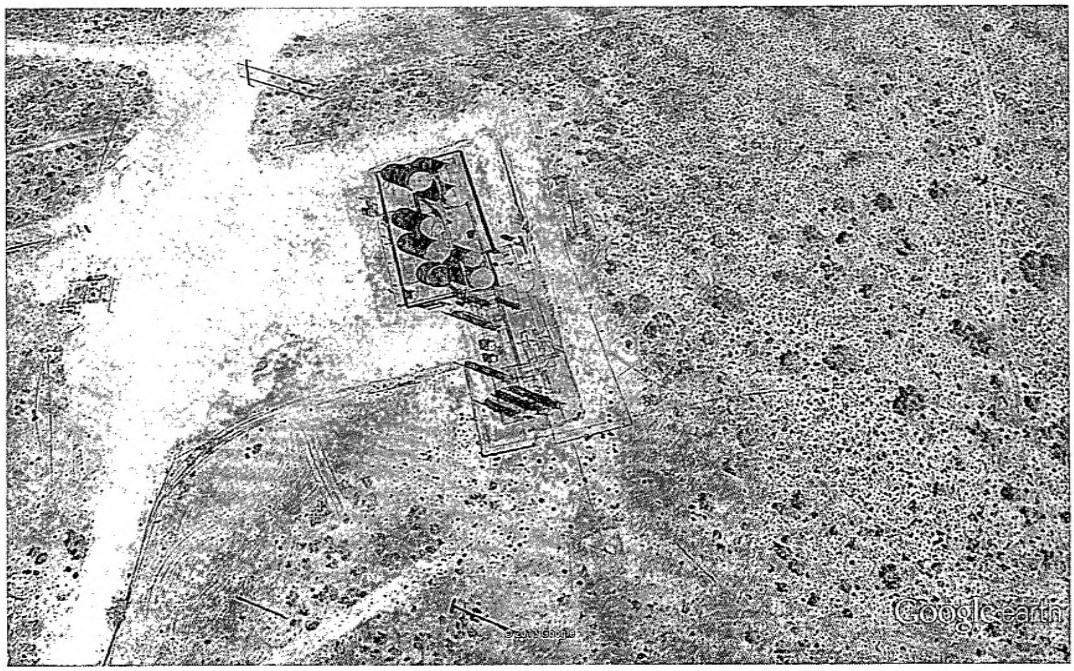
| | |
|---|---|
| Signature: Tony Savoie | OIL CONSERVATION DIVISION |
| Printed Name: Tony Savoie | Approved by Environmental Specialist: Signed By Mike Bratcher |
| Title: Waste Management and Remediation Specialist | Approval Date: NOV 26 2013 Expiration Date: |
| E-mail Address: tasavoie@basspet.com | Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: December 26, 2013 Attached ☐ |
| Date: Phone: 432-556-8730 | 2RP-2082 |

* Attach Additional Sheets If Necessary










Google earth feet 200 meters 80

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-2082 |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # *(assigned by OCD)* |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

## Location of Release Source

Latitude 32.491141 Longitude -104.007775
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Golden 8 Federal Battery #1 | Site Type Exploration and Production |
| Date Release Discovered 11/25/2013 | API# *(if applicable)* 30-015-26931 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| K | 8 | 21S | 29E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 6 | Volume Recovered (bbls) 3 |
| ☒ Produced Water | Volume Released (bbls) 15 | Volume Recovered (bbls) 2 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2082 |
| Facility ID | |
| Application ID | |

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2082 |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2082 |
| 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: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2082 |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

ARTESIA DISTRICT
AUG 13 2014
RECEIVED

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

Form C-141
Revised August 8, 2011

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

# Release Notification and Corrective Action

nAB1422637219

## OPERATOR

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company: BOPCO, L.P. 260737 | Contact: Tony Savoie |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329 |
| Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011 | Facility Type: Exploration and Production |

| | | |
|---|---|---|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-26931 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| K | 8 | 21S | 29E | 1650 | South | 2180 | West | Eddy |

**Latitude** N 32.491141 **Longitude** W 104.007775

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release: Crude oil and produced water | Volume of Release: 3 Bbls of crude oil and 38 Bbls water | Volume Recovered: 1 Bbl. oil and 17 Bbls water. |
| Source of Release: Victaulic fitting on the production header. | Date and Hour of Occurrence: Date 8/12/14 Time unknown | Date and Hour of Discovery: Date 8/12/14 Time approximately 10:30 a.m. |
| Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required | If YES, To Whom? NMOCD Emergency #104 | |
| By Whom? Tony Savoie | Date and Hour: 8/12/14 at 12:10 p.m. | |
| Was a Watercourse Reached? ☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 13 2014
RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A Victaulic gasket failed on the production header due to a normally open valve was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal.

Describe Area Affected and Cleanup Action Taken.*
The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practicable in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-633. And the same are as impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required and a new closure report will be submitted including data from the previous two spills.

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.

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Management and Remediation Specialist

E-mail Address: tasavoie@basspet.com

Date: 8/13/14 Phone: 432-556-8730

## OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 8/14/14 Expiration Date: N/A

Conditions of Approval:
Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 2RP-2439

Attached ☐

* Attach Additional Sheets If Necessary

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-2439 |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # *(assigned by OCD)* |
| Contact mailing address 522 W. Mermod, Carlsbad, NM 88220 | |

## Location of Release Source

Latitude 32.491141 Longitude -104.007775
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Golden 8 Federal Battery #1 | Site Type Exploration and Production |
| Date Release Discovered 08/12/2014 | API# *(if applicable)* 30-015-26931 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| K | 8 | 21S | 29E | Eddy |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 3 | Volume Recovered (bbls) 1 |
| ☒ Produced Water | Volume Released (bbls) 27 | Volume Recovered (bbls) 17 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

A Victaulic gasket failed on the production header due to a normally open valve was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal. The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-0633 and the same areas impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous two spills.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2439 |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☒ Yes ☐ No | If YES, for what reason(s) does the responsible party consider this a major release?<br>Volume of release is greater than 25 bbls. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Tony Savoie (XTO) contacted the NMOCD emergency operator #104 on 08/12/2014 at 12:10 pm. | |

## Initial Response

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

☒ The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2439 |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
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| District RP | 2RP-2439 |
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| Application ID | |

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Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | 2RP-2439 |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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Printed Name: _____Kyle Littrell_____ Title: ____SH&E Supervisor_____

Signature:_____ Date: __12/31/2019_____

email: _____Kyle_Littrell@xtoenergy.com_____ Telephone: ___432-221-7331_____

**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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

January 2, 2020

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

**RE: Deferral Request – Addendum to Original Closure Request**
**Golden 8 Federal Battery #1**
**Remediation Permit Numbers 2RP-521, 2RP-633, 2RP-2082, and 2RP-2439**
**Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request as an addendum to a previously submitted Closure Request detailing site assessment and soil sampling activities at the Golden 8 Federal Battery #1 (Site) in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The original Closure Request addressed seven historical releases that occurred at the same well pad location. The New Mexico Oil Conservation Division (NMOCD) approved closure of three of the historical releases, but requested additional information for deferral consideration of four releases that occurred around production equipment. The purpose of the site assessment and soil sampling activities documented in this report was to delineate previously identified impacted soil associated with those four historical releases. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Deferral Request, requesting deferral of final remediation for these release events.

## RELEASE BACKGROUND

### 2RP-521

On June 14, 2010 a drain line connection on a tank failed due to internal corrosion releasing 90 barrels (bbls) of crude oil into the lined earthen tank battery containment. The remaining oil in the tank was removed, the tank was cleaned, inspected and repaired. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 80 bbls of crude oil were recovered. The heavily saturated soils were removed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on June 22, 2010, and the NMOCD subsequently issued RP Number 2RP-521.

**2RP-633**

On February 12, 2011 a heater-treater malfunction caused an oil product tank to overflow releasing 310 bbls of crude oil to the lined earthen containment and pasture outside the containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 290 bbls of crude oil were recovered.

**2RP-2082**

On November 25, 2013 a fire tube on the heater-treater developed a leak resulting in a release of 6 bbls of crude oil and 15 bbls of produced water to the lined earthen containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 3 bbls of crude oil and 2 bbls of produced water were recovered.

**2RP-2439**

On August 12, 2014 a Victaulic gasket failed on the production header due to a blow out on the gasket resulting in a release of 3 bbls of crude oil and 38 bbls of produced water. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 1 bbl of crude oil and 17 bbls of water were recovered. The gasket was replaced.

XTO submitted a Closure Request dated May 25, 2018, for this site addressing seven separate historical releases. The NMOCD approved closure of 2RP-3612, 2RP-4017, and 2RP-4601 via email dated June 6, 2018. In consideration of the other historical releases, which were inside the tank battery, NMOCD responded with a recommendation to attempt a delineation, remediate as much as possible, and defer anything left until final plugging and abandonment.

## SITE CLOSURE STANDARDS

The original site work and subsequent sampling occurred prior to promulgation of new spill response requirements listed in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). As described and approved in the original Closure Request, closure standards were established as follows: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region at the time of sampling and previous reporting, LTE applied a site-specific chloride action level of 600 mg/kg.

## SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On June 7, 2018 LTE evaluated the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected six preliminary soil samples (SS06-SS11) within the lined earthen containment. Soil from the soil sample location was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID)

and Hach® chloride QuanTab® test strips, respectively. The preliminary soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Based on laboratory analytical results for chloride in preliminary soil sample SS09, additional vertical delineation was conducted at that location.

On June 13, 2018 LTE personnel advanced a borehole via hand-auger at one location within the lined tank battery containment on the northeastern side of the caliche well pad. The borehole was advanced at SS09 to delineate the impacted soils. Three soil samples were collected at depths ranging from 7 feet and 12.5 feet bgs (BH01A through BH01C). Soil from the soil sample location was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for each sample were documented on a lithologic/soil sampling log and are included as Attachment 1. The borehole was backfilled with the soil removed and LTE personnel repaired the liner. The borehole and vertical delineation soil sample location is depicted on Figure 2.

## ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS09 and BH01A, collected at depths ranging from 0.5 feet to 7 feet bgs, indicated that chloride concentrations exceeded 600 mg/kg. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the documented closure standards in all other soil samples. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

## DEFERRAL REQUEST

LTE personnel advanced one borehole in the location of the SS09 in the lined earthen containment. Delineation soil samples BH01A through BH01C were collected from within the lined tank battery containment from depths ranging from 0.5 foot to 12.5 feet bgs to assess for the presence or absence of soil impacts as a result of the four releases in the lined earthen containment. Laboratory analytical results indicated that chloride concentrations exceeded the the previously documented closure standards in soil samples SS09 and BH01A, collected at

depths ranging from 0.5 feet to 7 feet bgs. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the previously documented closure standards in soil samples SS06 through SS08, SS10, SS11 and BH01B through BH01C at depths of approximately 0.5 feet and 12.5 feet bgs, respectively.

Residual impacted soil in the area of delineation borehole BH01 was left in place under the lined containment in which active operating equipment exists. Vertical delineation was achieved at approximately 10 feet bgs. The lateral extent of impacted soil remaining in place is defined by the other samples documented in this report and the numerous samples collected outside the containment and documented in the original Closure Request. An estimated 555 cubic yards of impacted soil remains in place surrounding borehole BH01 and beneath the lined tank battery containment, assuming a maximum 10-foot depth based on soil sample BH01B collected at a depth of 10 feet bgs.

Because depth to groundwater is estimated to be greater than 200 feet bgs, there no nearby surface features, and the impacted soil exists above and beneath a liner, LTE and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The lined containment was repaired by XTO and will restrict potential vertical migration of residual impacts. XTO requests deferral of final remediation for this release event until final reclamation of the well pad or major construction, whichever comes first. An updated Form C-141 is attached.

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

Sincerely,

LT ENVIRONMENTAL, INC.

T Morrissey

Ashley L. Ager

Tacoma Morrissey
Staff Geologist

Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
United States Bureau of Land Management – New Mexico
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Appendices:

| | |
|---|---|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Table 1 | Soil Analytical Results |
| Attachment 1 | Lithologic/Soil Sampling Logs |
| Attachment 2 | Photographic Log |
| Attachment 3 | Laboratory Analytical Reports |

FIGURES

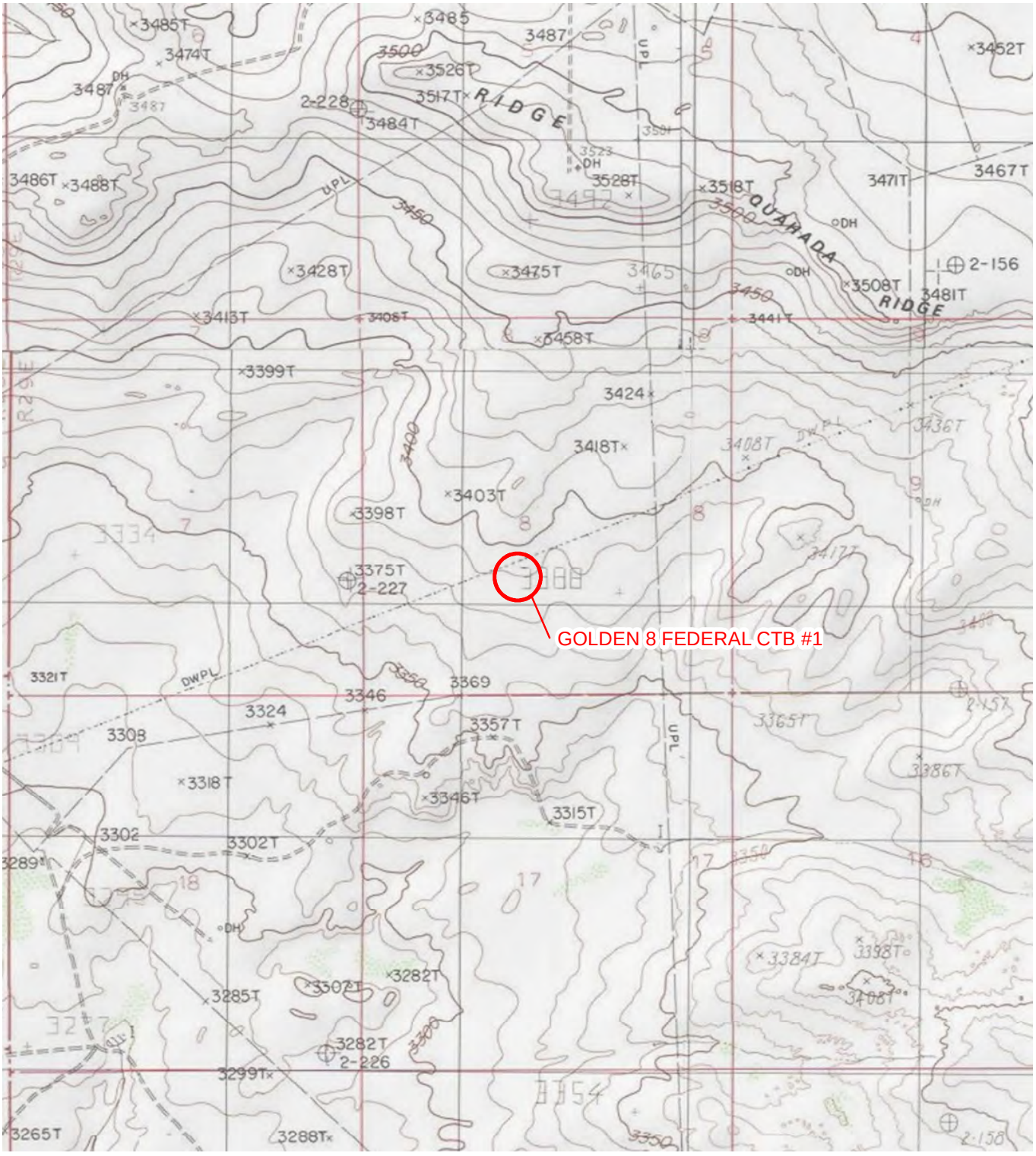



IMAGE COURTESY OF ESRI/USGS

**LEGEND**

SITE LOCATION

0 2,000 4,000

Feet

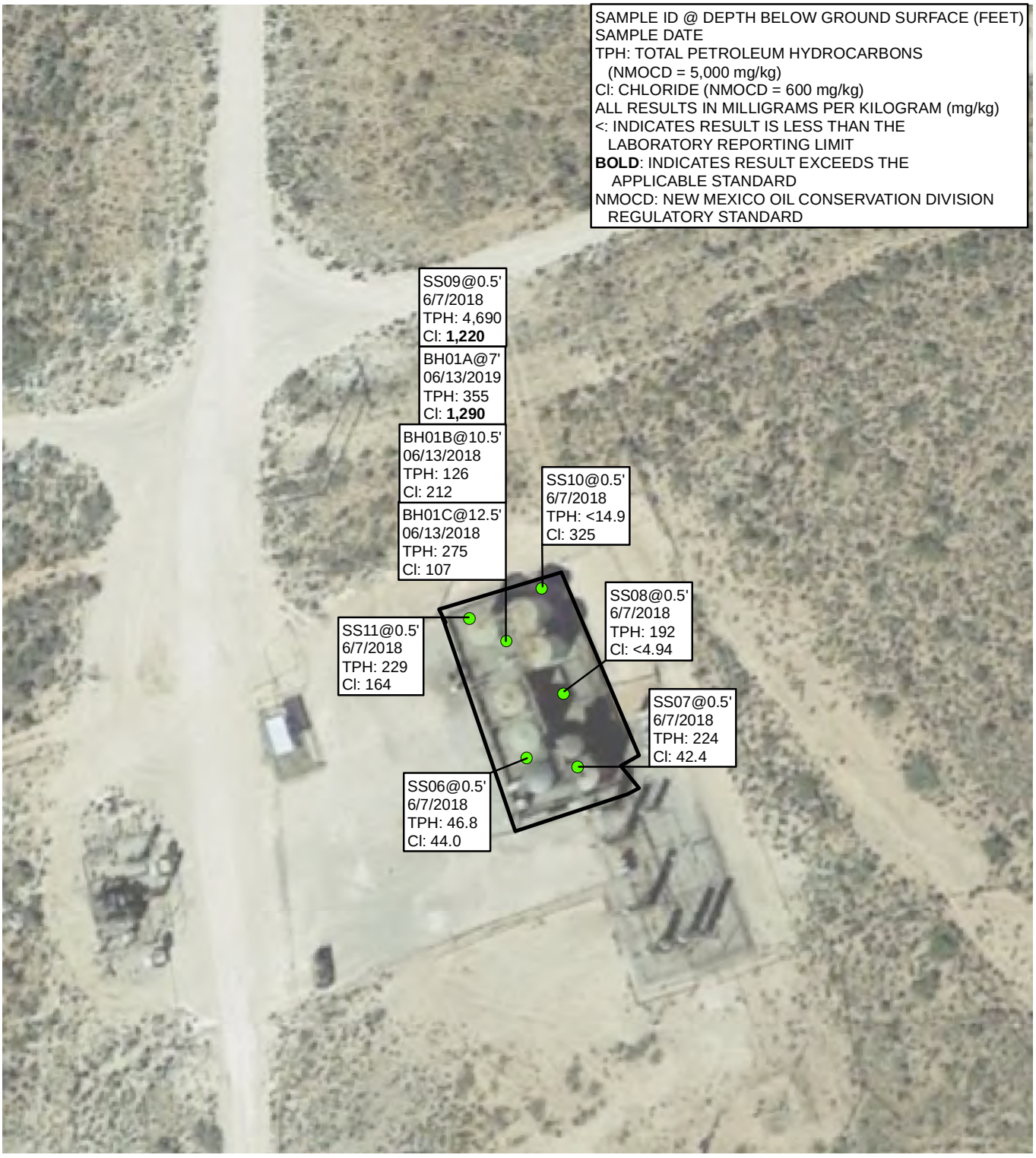
N

NEW MEXICO

NOTE: REMEDIATION PERMIT NUMBERS
2RP-521, 2RP-633, 2RP-2082, & 2RP-2439

FIGURE 1
SITE LOCATION MAP
GOLDEN 8 FEDERAL CTB #1
NESW SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012918065_GOLDEN 8 FEDERAL\012918065_FIG01_SL_2018.mxd




**LEGEND**

SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

CONTAINMENT AREA

IMAGE COURTESY OF GOOGLE EARTH 2017

0 70 140

Feet

N

NOTE: BENZENE AND TOTAL BTEX NOT INCLUDED BECAUSE ALL RESULTS WERE BELOW LABORATORY DETECTION LIMITS.
NOTE: REMEDIATION PERMIT NUMBERS 2RP-521, 2RP-633, 2RP-2082, & 2RP-2439

FIGURE 2
SOIL SAMPLE LOCATIONS
GOLDEN 8 FEDERAL CTB #1
NESW SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012918065_GOLDEN 8 FEDERAL\012918065_FIG02_SS LOC_2019.mxd

TABLE

# TABLE 1
# SOIL ANALYTICAL RESULTS

## GOLDEN 8 FEDERAL CENTRAL TANK BATTERY #1
## REMEDIATION PERMIT NUMBER 2RP-521, 2RP-633, 2RP-2082, AND 2RP-2439
## EDDY COUNTY, NEW MEXICO
## XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Table 1 Closure Criteria** | | | **10** | NE | NE | NE | **50** | NE | NE | NE | **NE** | **5,000** | **600** |
| SS06 @ 6" bgs | 0.5 | 06/07/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 46.8 | <15.0 | 46.8 | 46.8 | 44.0 |
| SS07 | 0.5 | 06/07/2018 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <15.0 | 203 | 21.3 | 203 | 224 | 42.4 |
| SS08 | 0.5 | 06/07/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <14.9 | 172 | 20.3 | 172 | 192 | <4.94 |
| SS09 | 0.5 | 06/07/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | 659 | 3,900 | 129 | 4,550 | 4,690 | **1,220** |
| SS10 | 0.5 | 06/07/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <14.9 | <14.9 | <14.9 | <14.9 | <14.9 | 325 |
| SS11 | 0.5 | 06/07/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 210 | 19.2 | 210 | 229 | 164 |
| BH01 A | 7 | 06/13/2018 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <15.0 | 331 | 24.0 | 331 | 355 | **1,290** |
| BH01 B | 10.5 | 06/13/2018 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <15.0 | 126 | <15.0 | 126 | 126 | 212 |
| BH01 C | 12.5 | 06/13/2018 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <15.0 | 258 | 17.1 | 258 | 275 | 107 |

**Notes:**

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



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# ATTACHMENT 1: LITHOLOGIC/SOIL SAMPLING LOGS

**LT Environmental, Inc.**
*508 West Stevens Street*
*Carlsbad, New Mexico 88220*
*Compliance · Engineering · Remediation*

| | |
|---|---|
| Identifier: BH01 | Date: 6/13/2019 |
| Project Name: Golden 8 Federal #1 | RP Number: 2RP-521, 2RP-633, 2RP-2082, and 2RP-2439 |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: L. Laumbach | Method: Hand Auger | | |
| Lat/Long: 32.491438, -104.008147 | Field Screening: | Hole Diameter: 3" | Total Depth: 12.5' |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | | | |
| | | | | | 1 | | | |
| | | | | | 2 | | | |
| | | | | | 3 | | | |
| 985 | 352 | | | | 4 | 4' | S | Caliche/sand light brown- hydrocarbon odor detected |
| | | | | | 5 | | | |
| | | | | | 6 | | | |
| 1160 | 215 | | | BH01 A | 7 | 7' | S | sand/ clay brown |
| | | | | | 8 | | | |
| 462 | 95.4 | | | | 9 | 9.5' | S | sand/clay brown- no staining or hydrocarbon odor detected |
| 156.4 | 492 | | | BH01B | 10 | 10.5' | | sand/clay brown- no staining or hydrocarbon odor detected |
| 50.1 | 630 | | | | 11 | 11.5' | | caliche/sand- no staining or hydrocarbon odor detected |
| 65.1 | 115 | | | BH01C | 12 | 12.5' | | caliche/sand- no staining or hydrocarbon odor detected; auguer refusal |

ATTACHMENT 2: PHOTOGRAPHIC LOG



**Western view of lined tank battery containment.**

| | | |
|---|---|---|
| Project: 012918065 | XTO Energy, Inc.<br>Golden 8 Federal Battery #1 | LTE Advancing Opportunity |
| March 3, 2018 | Photographic Log | |



**View of lined tank battery containment and liner hole during soil sampling activities.**

| | | |
|---|---|---|
| Project: 012918065 | XTO Energy, Inc.<br>Golden 8 Federal Battery #1 | LTE Advancing Opportunity |
| March 4, 2018 | Photographic Log | |

# ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

# Analytical Report 588640

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal #1**

**11-JUN-18**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



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11-JUN-18

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

Reference: XENCO Report No(s): **588640**
**Golden 8 Federal #1**
Project Address: NM 2RP-2439

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 588640. 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. 588640 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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



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# Sample Cross Reference 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS06 @ 6"bgs. | S | 06-07-18 10:00 | 6 In | 588640-001 |
| SS07 | S | 06-07-18 10:15 | 6 In | 588640-002 |
| SS08 | S | 06-07-18 10:35 | 6 In | 588640-003 |
| SS09 | S | 06-07-18 10:50 | 6 In | 588640-004 |
| SS10 | S | 06-07-18 11:00 | 6 In | 588640-005 |
| SS11 | S | 06-07-18 10:20 | 6 In | 588640-006 |



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# CASE NARRATIVE

***Client Name: LT Environmental, Inc.***
***Project Name: Golden 8 Federal #1***

Project ID:
Work Order Number(s): *588640*

Report Date: *11-JUN-18*
Date Received: *06/08/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3052932 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3052970 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



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# Certificate of Analysis Summary 588640

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal #1

**Project Id:**
**Contact:** Adrian Baker
**Project Location:** NM 2RP-2439

**Date Received in Lab:** Fri Jun-08-18 10:09 am
**Report Date:** 11-JUN-18
**Project Manager:** Jessica Kramer

| Analysis Requested | | Lab Id: | 588640-001 | | 588640-002 | | 588640-003 | | 588640-004 | | 588640-005 | | 588640-006 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Field Id: | SS06 @ 6"bgs. | | SS07 | | SS08 | | SS09 | | SS10 | | SS11 | |
| | | Depth: | 6- In | | 6- In | | 6- In | | 6- In | | 6- In | | 6- In | |
| | | Matrix: | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | | Sampled: | Jun-07-18 10:00 | | Jun-07-18 10:15 | | Jun-07-18 10:35 | | Jun-07-18 10:50 | | Jun-07-18 11:00 | | Jun-07-18 10:20 | |
| **BTEX by EPA 8021B** | | Extracted: | Jun-09-18 07:55 | | Jun-09-18 07:55 | | Jun-09-18 07:55 | | Jun-10-18 08:30 | | Jun-09-18 07:55 | | Jun-09-18 07:55 | |
| | | Analyzed: | Jun-10-18 00:43 | | Jun-10-18 01:01 | | Jun-10-18 01:19 | | Jun-10-18 21:34 | | Jun-10-18 01:55 | | Jun-10-18 02:13 | |
| | | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Toluene | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Ethylbenzene | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| m,p-Xylenes | | | <0.00398 | 0.00398 | <0.00397 | 0.00397 | <0.00402 | 0.00402 | <0.00399 | 0.00399 | <0.00401 | 0.00401 | <0.00398 | 0.00398 |
| o-Xylene | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total Xylenes | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| Total BTEX | | | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 | <0.00199 | 0.00199 |
| **Inorganic Anions by EPA 300** | | Extracted: | Jun-08-18 15:15 | | Jun-08-18 15:15 | | Jun-08-18 15:15 | | Jun-08-18 15:15 | | Jun-08-18 15:15 | | Jun-08-18 15:15 | |
| | | Analyzed: | Jun-09-18 01:09 | | Jun-09-18 01:15 | | Jun-09-18 01:20 | | Jun-09-18 01:26 | | Jun-09-18 01:31 | | Jun-09-18 01:47 | |
| | | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | | 44.0 | 4.93 | 42.4 | 4.99 | <4.94 | 4.94 | 1220 | 24.7 | 325 | 4.96 | 164 | 4.98 |
| **TPH by SW8015 Mod** | | Extracted: | Jun-08-18 14:00 | | Jun-08-18 14:00 | | Jun-08-18 14:00 | | Jun-08-18 14:00 | | Jun-08-18 14:00 | | Jun-08-18 14:00 | |
| | | Analyzed: | Jun-09-18 01:03 | | Jun-09-18 01:23 | | Jun-09-18 01:44 | | Jun-09-18 02:04 | | Jun-09-18 02:25 | | Jun-09-18 02:45 | |
| | | Units/RL: | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | | <15.0 | 15.0 | <15.0 | 15.0 | <14.9 | 14.9 | 659 | 74.8 | <14.9 | 14.9 | <15.0 | 15.0 |
| Diesel Range Organics (DRO) | | | 46.8 | 15.0 | 203 | 15.0 | 172 | 14.9 | 3900 | 74.8 | <14.9 | 14.9 | 210 | 15.0 |
| Oil Range Hydrocarbons (ORO) | | | <15.0 | 15.0 | 21.3 | 15.0 | 20.3 | 14.9 | 129 | 74.8 | <14.9 | 14.9 | 19.2 | 15.0 |
| Total TPH | | | 46.8 | 15.0 | 224 | 15.0 | 192 | 14.9 | 4690 | 74.8 | <14.9 | 14.9 | 229 | 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.



Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS06 @ 6"bgs.** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-001 | Date Collected: | 06.07.18 10.00 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **44.0** | 4.93 | mg/kg | 06.09.18 01.09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.09.18 01.03 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **46.8** | 15.0 | mg/kg | 06.09.18 01.03 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.09.18 01.03 | U | 1 |
| **Total TPH** | PHC635 | **46.8** | 15.0 | mg/kg | 06.09.18 01.03 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 06.09.18 01.03 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 06.09.18 01.03 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS06 @ 6"bgs.** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-001 | Date Collected: | 06.07.18 10.00 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.09.18 07.55 | Basis: | Wet Weight |
| Seq Number: | 3052932 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.10.18 00.43 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.10.18 00.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 06.10.18 00.43 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 06.10.18 00.43 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS07** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-002 | Date Collected: | 06.07.18 10.15 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **42.4** | 4.99 | mg/kg | 06.09.18 01.15 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.09.18 01.23 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **203** | 15.0 | mg/kg | 06.09.18 01.23 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **21.3** | 15.0 | mg/kg | 06.09.18 01.23 | | 1 |
| **Total TPH** | PHC635 | **224** | 15.0 | mg/kg | 06.09.18 01.23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 06.09.18 01.23 | |
| o-Terphenyl | 84-15-1 | 95 | % | 70-135 | 06.09.18 01.23 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS07** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-002 | Date Collected: | 06.07.18 10.15 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.09.18 07.55 | Basis: | Wet Weight |
| Seq Number: | 3052932 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 06.10.18 01.01 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 06.10.18 01.01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 06.10.18 01.01 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.10.18 01.01 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS08** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-003 | Date Collected: | 06.07.18 10.35 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Chloride | 16887-00-6 | <4.94 | 4.94 | mg/kg | 06.09.18 01.20 | U | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 06.09.18 01.44 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **172** | 14.9 | mg/kg | 06.09.18 01.44 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **20.3** | 14.9 | mg/kg | 06.09.18 01.44 | | 1 |
| **Total TPH** | PHC635 | **192** | 14.9 | mg/kg | 06.09.18 01.44 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 91 | % | 70-135 | 06.09.18 01.44 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 06.09.18 01.44 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS08** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-003 | Date Collected: | 06.07.18 10.35 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.09.18 07.55 | Basis: | Wet Weight |
| Seq Number: | 3052932 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.10.18 01.19 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.10.18 01.19 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 06.10.18 01.19 | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 06.10.18 01.19 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS09** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-004 | Date Collected: | 06.07.18 10.50 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1220** | 24.7 | mg/kg | 06.09.18 01.26 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **659** | 74.8 | mg/kg | 06.09.18 02.04 | | 5 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **3900** | 74.8 | mg/kg | 06.09.18 02.04 | | 5 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **129** | 74.8 | mg/kg | 06.09.18 02.04 | | 5 |
| **Total TPH** | PHC635 | **4690** | 74.8 | mg/kg | 06.09.18 02.04 | | 5 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 121 | % | 70-135 | 06.09.18 02.04 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-135 | 06.09.18 02.04 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS09** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-004 | Date Collected: | 06.07.18 10.50 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.10.18 08.30 | Basis: | Wet Weight |
| Seq Number: | 3052970 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 06.10.18 21.34 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.10.18 21.34 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 06.10.18 21.34 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 06.10.18 21.34 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS10** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-005 | Date Collected: | 06.07.18 11.00 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **325** | 4.96 | mg/kg | 06.09.18 01.31 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <14.9 | 14.9 | mg/kg | 06.09.18 02.25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <14.9 | 14.9 | mg/kg | 06.09.18 02.25 | U | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <14.9 | 14.9 | mg/kg | 06.09.18 02.25 | U | 1 |
| Total TPH | PHC635 | <14.9 | 14.9 | mg/kg | 06.09.18 02.25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 95 | % | 70-135 | 06.09.18 02.25 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 06.09.18 02.25 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS10** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-005 | Date Collected: | 06.07.18 11.00 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.09.18 07.55 | Basis: | Wet Weight |
| Seq Number: | 3052932 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 06.10.18 01.55 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.10.18 01.55 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 06.10.18 01.55 | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 06.10.18 01.55 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS11** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-006 | Date Collected: | 06.07.18 10.20 | Sample Depth: | 6 In |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | OJS | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.08.18 15.15 | Basis: | Wet Weight |
| Seq Number: | 3052933 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **164** | 4.98 | mg/kg | 06.09.18 01.47 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 06.08.18 14.00 | Basis: | Wet Weight |
| Seq Number: | 3052902 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.09.18 02.45 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **210** | 15.0 | mg/kg | 06.09.18 02.45 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **19.2** | 15.0 | mg/kg | 06.09.18 02.45 | | 1 |
| **Total TPH** | PHC635 | **229** | 15.0 | mg/kg | 06.09.18 02.45 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 06.09.18 02.45 | |
| o-Terphenyl | 84-15-1 | 105 | % | 70-135 | 06.09.18 02.45 | |



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# Certificate of Analytical Results 588640

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS11** | Matrix: | Soil | Date Received: | 06.08.18 10.09 |
| Lab Sample Id: | 588640-006 | Date Collected: | 06.07.18 10.20 | Sample Depth: | 6 In |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.09.18 07.55 | Basis: | Wet Weight |
| Seq Number: | 3052932 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.10.18 02.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.10.18 02.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 87 | % | 70-130 | 06.10.18 02.13 | |
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 06.10.18 02.13 | |



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# 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



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# QC Summary 588640

## LT Environmental, Inc.

Golden 8 Federal #1

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3052933 — Matrix: Solid — Date Prep: 06.08.18
MB Sample Id: 7656302-1-BLK — LCS Sample Id: 7656302-1-BKS — LCSD Sample Id: 7656302-1-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 | 270 | 108 | 267 | 107 | 90-110 | 1 | 20 | mg/kg | 06.09.18 00:05 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3052933 — Matrix: Soil — Date Prep: 06.08.18
Parent Sample Id: 588639-001 — MS Sample Id: 588639-001 S — MSD Sample Id: 588639-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 47.6 | 247 | 345 | 120 | 337 | 117 | 90-110 | 2 | 20 | mg/kg | 06.09.18 00:21 | X |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3052933 — Matrix: Soil — Date Prep: 06.08.18
Parent Sample Id: 588640-005 — MS Sample Id: 588640-005 S — MSD Sample Id: 588640-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 325 | 248 | 583 | 104 | 584 | 104 | 90-110 | 0 | 20 | mg/kg | 06.09.18 01:36 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3052902 — Matrix: Solid — Date Prep: 06.08.18
MB Sample Id: 7656356-1-BLK — LCS Sample Id: 7656356-1-BKS — LCSD Sample Id: 7656356-1-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) | <15.0 | 1000 | 943 | 94 | 954 | 95 | 70-135 | 1 | 20 | mg/kg | 06.08.18 19:37 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 993 | 99 | 1000 | 100 | 70-135 | 1 | 20 | mg/kg | 06.08.18 19:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 122 | | 125 | | 70-135 | % | 06.08.18 19:37 |
| o-Terphenyl | 106 | | 108 | | 107 | | 70-135 | % | 06.08.18 19:37 |

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



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# QC Summary 588640

## LT Environmental, Inc.

Golden 8 Federal #1

**Analytical Method:** TPH by SW8015 Mod
Prep Method: TX1005P
Seq Number: 3052902
Matrix: Soil
Date Prep: 06.08.18
Parent Sample Id: 588620-001
MS Sample Id: 588620-001 S
MSD Sample Id: 588620-001 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) | <15.0 | 998 | 890 | 89 | 903 | 90 | 70-135 | 1 | 20 | mg/kg | 06.08.18 20:38 | |
| Diesel Range Organics (DRO) | <15.0 | 998 | 924 | 93 | 942 | 94 | 70-135 | 2 | 20 | mg/kg | 06.08.18 20:38 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 122 | | 124 | | 70-135 | % | 06.08.18 20:38 |
| o-Terphenyl | 107 | | 107 | | 70-135 | % | 06.08.18 20:38 |

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3052932
Matrix: Solid
Date Prep: 06.09.18
MB Sample Id: 7656352-1-BLK
LCS Sample Id: 7656352-1-BKS
LCSD Sample Id: 7656352-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.0866 | 86 | 0.0847 | 85 | 70-130 | 2 | 35 | mg/kg | 06.09.18 18:38 | |
| Toluene | <0.00202 | 0.101 | 0.0902 | 89 | 0.0897 | 90 | 70-130 | 1 | 35 | mg/kg | 06.09.18 18:38 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0922 | 91 | 0.0914 | 91 | 70-130 | 1 | 35 | mg/kg | 06.09.18 18:38 | |
| m,p-Xylenes | <0.00403 | 0.202 | 0.192 | 95 | 0.187 | 94 | 70-130 | 3 | 35 | mg/kg | 06.09.18 18:38 | |
| o-Xylene | <0.00202 | 0.101 | 0.0929 | 92 | 0.0977 | 98 | 70-130 | 5 | 35 | mg/kg | 06.09.18 18:38 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 89 | | 95 | | 94 | | 70-130 | % | 06.09.18 18:38 |
| 4-Bromofluorobenzene | 93 | | 95 | | 99 | | 70-130 | % | 06.09.18 18:38 |

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3052970
Matrix: Solid
Date Prep: 06.10.18
MB Sample Id: 7656395-1-BLK
LCS Sample Id: 7656395-1-BKS
LCSD Sample Id: 7656395-1-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 | 0.0879 | 88 | 0.0862 | 85 | 70-130 | 2 | 35 | mg/kg | 06.10.18 19:28 | |
| Toluene | <0.00200 | 0.100 | 0.0934 | 93 | 0.0907 | 90 | 70-130 | 3 | 35 | mg/kg | 06.10.18 19:28 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0917 | 92 | 0.0893 | 88 | 70-130 | 3 | 35 | mg/kg | 06.10.18 19:28 | |
| m,p-Xylenes | <0.00401 | 0.200 | 0.189 | 95 | 0.185 | 92 | 70-130 | 2 | 35 | mg/kg | 06.10.18 19:28 | |
| o-Xylene | <0.00200 | 0.100 | 0.0921 | 92 | 0.0897 | 89 | 70-130 | 3 | 35 | mg/kg | 06.10.18 19:28 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 93 | | 99 | | 94 | | 70-130 | % | 06.10.18 19:28 |
| 4-Bromofluorobenzene | 87 | | 98 | | 94 | | 70-130 | % | 06.10.18 19:28 |

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

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

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



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# QC Summary 588640

## LT Environmental, Inc.

Golden 8 Federal #1

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3052932
Matrix: Soil
Date Prep: 06.09.18
Parent Sample Id: 588112-021
MS Sample Id: 588112-021 S
MSD Sample Id: 588112-021 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 | 0.0473 | 47 | 0.0544 | 55 | 70-130 | 14 | 35 | mg/kg | 06.09.18 19:16 | X |
| Toluene | <0.00200 | 0.100 | 0.0502 | 50 | 0.0567 | 57 | 70-130 | 12 | 35 | mg/kg | 06.09.18 19:16 | X |
| Ethylbenzene | <0.00200 | 0.100 | 0.0468 | 47 | 0.0537 | 54 | 70-130 | 14 | 35 | mg/kg | 06.09.18 19:16 | X |
| m,p-Xylenes | <0.00401 | 0.200 | 0.0968 | 48 | 0.111 | 56 | 70-130 | 14 | 35 | mg/kg | 06.09.18 19:16 | X |
| o-Xylene | <0.00200 | 0.100 | 0.0465 | 47 | 0.0653 | 66 | 70-130 | 34 | 35 | mg/kg | 06.09.18 19:16 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 88 | | 106 | | 70-130 | % | 06.09.18 19:16 |
| 4-Bromofluorobenzene | 95 | | 104 | | 70-130 | % | 06.09.18 19:16 |

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3052970
Matrix: Soil
Date Prep: 06.10.18
Parent Sample Id: 588647-004
MS Sample Id: 588647-004 S
MSD Sample Id: 588647-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.0756 | 75 | 0.0760 | 75 | 70-130 | 1 | 35 | mg/kg | 06.10.18 20:04 | |
| Toluene | <0.00202 | 0.101 | 0.0813 | 80 | 0.0797 | 79 | 70-130 | 2 | 35 | mg/kg | 06.10.18 20:04 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0814 | 81 | 0.0819 | 81 | 70-130 | 1 | 35 | mg/kg | 06.10.18 20:04 | |
| m,p-Xylenes | <0.00404 | 0.202 | 0.167 | 83 | 0.171 | 85 | 70-130 | 2 | 35 | mg/kg | 06.10.18 20:04 | |
| o-Xylene | <0.00202 | 0.101 | 0.0767 | 76 | 0.0782 | 77 | 70-130 | 2 | 35 | mg/kg | 06.10.18 20:04 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 98 | | 98 | | 70-130 | % | 06.10.18 20:04 |
| 4-Bromofluorobenzene | 104 | | 106 | | 70-130 | % | 06.10.18 20:04 |

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

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

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

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



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# CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

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San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
www.xenco.com
Phoenix, Arizona (480-355-0900)

Xenco Quote #
Xenco Job # 588640

**Client / Reporting Information**

Company Name / Branch: LT Environmental, Inc. - Permian Office
Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705
Email: Abaker@LTEnv.com
Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Lynda Lambach

**Project Information**

Project Name/Number: Golden 8 Federal #1
Project Location: NM 2RP-2439
Invoice To: XTO Energy - Kyle Littrell
PO Number:

**Matrix Codes**

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

| No. | Field ID / Point of Collection | Collection: Sample Depth | Date | Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | Analytical Information: BTEX 8021 (only BTEX) | TPH (MRO, GRO, DRO) 8015 | chloride (300.0) | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SS06 @ 6" bgs. | 6" | 06/7/18 | 10:00 | S | 1 | | | | | | | | X | X | X | X | ETB - S |
| 2 | SS07 | | | 10:15 | S | 1 | | | | | | | | X | X | X | X | ETB - N |
| 3 | SS08 | | | 10:35 | S | 1 | | | | | | | | X | X | X | X | W-mid TB |
| 4 | SS09 | | | 10:50 | S | 1 | | | | | | | | X | X | X | X | SW-mid TB |
| 5 | SS10 | | | 11:00 | S | 1 | | | | | | | | X | X | X | X | NW - WTB |
| 6 | SS11 | | | 11:20 | S | 1 | | | | | | | | X | X | X | X | SW - WTB |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

**Turnaround Time ( Business days)**

- [X] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

**Data Deliverable Information**

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

**Notes:**

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | Lynda Lambach | 06/07/18 13:20 | Timothy P. Elbert | | | |
| 2 | | | | | 6/7 15:30 | |
| 3 | Relinquished by: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
| 4 | | | | | | 6/8/18 1009 |
| 5 | Relinquished by: | Date Time: | Received By: | Custody Seal # | Preserved where applicable | On Ice: [X] Cooler Temp. 4.2 Thermo. Corr. Factor 0.0 |

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

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Final 1.000
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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 06/08/2018 10:09:00 AM

**Work Order #:** 588640

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

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 06/08/2018
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 06/08/2018
Jessica Kramer

# Analytical Report 589277

## for

## LT Environmental, Inc.

**Project Manager: Adrian Baker**

**Golden 8 Federal 1**

**15-JUN-18**

Collected By: Client





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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



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15-JUN-18

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

Reference: XENCO Report No(s): **589277**
**Golden 8 Federal 1**
Project Address: NM 2RP-3612

**Adrian Baker**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 589277. 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. 589277 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

***Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.***
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# Sample Cross Reference 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH01 A | S | 06-13-18 09:50 | 7 ft | 589277-001 |
| BH01 B | S | 06-13-18 10:30 | 10.5 ft | 589277-002 |
| BH01 C | S | 06-13-18 11:15 | 12.5 ft | 589277-003 |



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# CASE NARRATIVE

***Client Name: LT Environmental, Inc.***
***Project Name: Golden 8 Federal 1***

Project ID:
Work Order Number(s): *589277*

Report Date: *15-JUN-18*
Date Received: *06/14/2018*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3053586 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 589277-001 S.

Batch: LBA-3053603 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



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# Certificate of Analysis Summary 589277

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal 1

**Project Id:**
**Contact:** Adrian Baker
**Project Location:** NM 2RP-3612

**Date Received in Lab:** Thu Jun-14-18 02:00 pm
**Report Date:** 15-JUN-18
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 589277-001 | | 589277-002 | | 589277-003 | | | | | | | |
| | ***Field Id:*** | BH01 A | | BH01 B | | BH01 C | | | | | | | |
| | ***Depth:*** | 7- ft | | 10.5- ft | | 12.5- ft | | | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | | | | | | |
| | ***Sampled:*** | Jun-13-18 09:50 | | Jun-13-18 10:30 | | Jun-13-18 11:15 | | | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Jun-14-18 16:00 | | Jun-14-18 16:00 | | Jun-14-18 16:00 | | | | | | | |
| | ***Analyzed:*** | Jun-14-18 19:08 | | Jun-14-18 19:26 | | Jun-14-18 19:44 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Benzene | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| Toluene | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| Ethylbenzene | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| m,p-Xylenes | | <0.00402 | 0.00402 | <0.00398 | 0.00398 | <0.00400 | 0.00400 | | | | | | |
| o-Xylene | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| Total Xylenes | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| Total BTEX | | <0.00201 | 0.00201 | <0.00199 | 0.00199 | <0.00200 | 0.00200 | | | | | | |
| **Inorganic Anions by EPA 300** | ***Extracted:*** | Jun-14-18 14:30 | | Jun-14-18 14:30 | | Jun-14-18 14:30 | | | | | | | |
| | ***Analyzed:*** | Jun-14-18 18:51 | | Jun-14-18 18:56 | | Jun-14-18 19:02 | | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | | | |
| Chloride | | 1290 | 24.6 | 212 | 4.94 | 107 | 5.00 | | | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | Jun-15-18 12:00 | | Jun-15-18 12:00 | | Jun-15-18 12:00 | | | | | | | |
| | ***Analyzed:*** | Jun-15-18 14:06 | | Jun-15-18 15:06 | | Jun-15-18 15:27 | | | | | | | |
| | ***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) | | 331 | 15.0 | 126 | 15.0 | 258 | 15.0 | | | | | | |
| Oil Range Hydrocarbons (ORO) | | 24.0 | 15.0 | <15.0 | 15.0 | 17.1 | 15.0 | | | | | | |
| Total TPH | | 355 | 15.0 | 126 | 15.0 | 275 | 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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 A** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-001 | Date Collected: | 06.13.18 09.50 | Sample Depth: | 7 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.14.18 14.30 | Basis: | Wet Weight |
| Seq Number: | 3053433 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1290** | 24.6 | mg/kg | 06.14.18 18.51 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | JUM | Date Prep: | 06.15.18 12.00 | Basis: | Wet Weight |
| Seq Number: | 3053586 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.15.18 14.06 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **331** | 15.0 | mg/kg | 06.15.18 14.06 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **24.0** | 15.0 | mg/kg | 06.15.18 14.06 | | 1 |
| **Total TPH** | PHC635 | **355** | 15.0 | mg/kg | 06.15.18 14.06 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-135 | 06.15.18 14.06 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 06.15.18 14.06 | |



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# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 A** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-001 | Date Collected: | 06.13.18 09.50 | Sample Depth: | 7 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.14.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3053603 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 06.14.18 19.08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 06.14.18 19.08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 06.14.18 19.08 | |
| 1,4-Difluorobenzene | 540-36-3 | 108 | % | 70-130 | 06.14.18 19.08 | |



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# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 B** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-002 | Date Collected: | 06.13.18 10.30 | Sample Depth: | 10.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.14.18 14.30 | Basis: | Wet Weight |
| Seq Number: | 3053433 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **212** | 4.94 | mg/kg | 06.14.18 18.56 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | JUM | Date Prep: | 06.15.18 12.00 | Basis: | Wet Weight |
| Seq Number: | 3053586 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.15.18 15.06 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **126** | 15.0 | mg/kg | 06.15.18 15.06 | | 1 |
| Oil Range Hydrocarbons (ORO) | PHCG2835 | <15.0 | 15.0 | mg/kg | 06.15.18 15.06 | U | 1 |
| **Total TPH** | PHC635 | **126** | 15.0 | mg/kg | 06.15.18 15.06 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 75 | % | 70-135 | 06.15.18 15.06 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-135 | 06.15.18 15.06 | |



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# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 B** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-002 | Date Collected: | 06.13.18 10.30 | Sample Depth: | 10.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.14.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3053603 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 06.14.18 19.26 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 06.14.18 19.26 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 93 | % | 70-130 | 06.14.18 19.26 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 06.14.18 19.26 | |



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# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 C** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-003 | Date Collected: | 06.13.18 11.15 | Sample Depth: | 12.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Inorganic Anions by EPA 300 | | | Prep Method: | E300P |
| Tech: | SCM | | | % Moisture: | |
| Analyst: | SCM | Date Prep: | 06.14.18 14.30 | Basis: | Wet Weight |
| Seq Number: | 3053433 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **107** | 5.00 | mg/kg | 06.14.18 19.02 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | TX1005P |
| Tech: | ARM | | | % Moisture: | |
| Analyst: | JUM | Date Prep: | 06.15.18 12.00 | Basis: | Wet Weight |
| Seq Number: | 3053586 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <15.0 | 15.0 | mg/kg | 06.15.18 15.27 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **258** | 15.0 | mg/kg | 06.15.18 15.27 | | 1 |
| **Oil Range Hydrocarbons (ORO)** | PHCG2835 | **17.1** | 15.0 | mg/kg | 06.15.18 15.27 | | 1 |
| **Total TPH** | PHC635 | **275** | 15.0 | mg/kg | 06.15.18 15.27 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 06.15.18 15.27 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 06.15.18 15.27 | |



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# Certificate of Analytical Results 589277

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01 C** | Matrix: | Soil | Date Received: | 06.14.18 14.00 |
| Lab Sample Id: | 589277-003 | Date Collected: | 06.13.18 11.15 | Sample Depth: | 12.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | ALJ | | | % Moisture: | |
| Analyst: | ALJ | Date Prep: | 06.14.18 16.00 | Basis: | Wet Weight |
| Seq Number: | 3053603 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 06.14.18 19.44 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 06.14.18 19.44 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 06.14.18 19.44 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 06.14.18 19.44 | |



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# 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



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# QC Summary 589277

## LT Environmental, Inc.

Golden 8 Federal 1

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3053433 — Matrix: Solid — Date Prep: 06.14.18
MB Sample Id: 7656636-1-BLK — LCS Sample Id: 7656636-1-BKS — LCSD Sample Id: 7656636-1-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 | 257 | 103 | 257 | 103 | 90-110 | 0 | 20 | mg/kg | 06.14.18 12:29 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3053433 — Matrix: Soil — Date Prep: 06.14.18
Parent Sample Id: 588898-002 — MS Sample Id: 588898-002 S — MSD Sample Id: 588898-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 321 | 250 | 558 | 95 | 559 | 95 | 90-110 | 0 | 20 | mg/kg | 06.14.18 17:57 | |

**Analytical Method:** Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3053433 — Matrix: Soil — Date Prep: 06.14.18
Parent Sample Id: 589043-001 — MS Sample Id: 589043-001 S — MSD Sample Id: 589043-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 7.35 | 247 | 270 | 106 | 264 | 104 | 90-110 | 2 | 20 | mg/kg | 06.14.18 12:46 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3053586 — Matrix: Solid — Date Prep: 06.15.18
MB Sample Id: 7656745-1-BLK — LCS Sample Id: 7656745-1-BKS — LCSD Sample Id: 7656745-1-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) | <15.0 | 1000 | 837 | 84 | 847 | 85 | 70-135 | 1 | 20 | mg/kg | 06.15.18 13:26 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 827 | 83 | 854 | 85 | 70-135 | 3 | 20 | mg/kg | 06.15.18 13:26 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 80 | | 107 | | 109 | | 70-135 | % | 06.15.18 13:26 |
| o-Terphenyl | 84 | | 86 | | 83 | | 70-135 | % | 06.15.18 13:26 |

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



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# QC Summary 589277

## LT Environmental, Inc.

Golden 8 Federal 1

**Analytical Method:** TPH by SW8015 Mod
Prep Method: TX1005P
Seq Number: 3053586
Matrix: Soil
Date Prep: 06.15.18
Parent Sample Id: 589277-001
MS Sample Id: 589277-001 S
MSD Sample Id: 589277-001 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) | <15.0 | 999 | 820 | 82 | 871 | 87 | 70-135 | 6 | 20 | mg/kg | 06.15.18 14:26 | |
| Diesel Range Organics (DRO) | 331 | 999 | 1140 | 81 | 1160 | 83 | 70-135 | 2 | 20 | mg/kg | 06.15.18 14:26 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 109 | | 102 | | 70-135 | % | 06.15.18 14:26 |
| o-Terphenyl | 54 | ** | 90 | | 70-135 | % | 06.15.18 14:26 |

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3053603
Matrix: Solid
Date Prep: 06.14.18
MB Sample Id: 7656667-1-BLK
LCS Sample Id: 7656667-1-BKS
LCSD Sample Id: 7656667-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0941 | 94 | 0.0871 | 87 | 70-130 | 8 | 35 | mg/kg | 06.14.18 17:19 | |
| Toluene | <0.00200 | 0.100 | 0.101 | 101 | 0.0930 | 93 | 70-130 | 8 | 35 | mg/kg | 06.14.18 17:19 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0993 | 99 | 0.0925 | 93 | 70-130 | 7 | 35 | mg/kg | 06.14.18 17:19 | |
| m,p-Xylenes | <0.00401 | 0.200 | 0.208 | 104 | 0.194 | 97 | 70-130 | 7 | 35 | mg/kg | 06.14.18 17:19 | |
| o-Xylene | <0.00200 | 0.100 | 0.106 | 106 | 0.0910 | 91 | 70-130 | 15 | 35 | mg/kg | 06.14.18 17:19 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 98 | | 92 | | 99 | | 70-130 | % | 06.14.18 17:19 |
| 4-Bromofluorobenzene | 89 | | 100 | | 122 | | 70-130 | % | 06.14.18 17:19 |

**Analytical Method:** BTEX by EPA 8021B
Prep Method: SW5030B
Seq Number: 3053603
Matrix: Soil
Date Prep: 06.14.18
Parent Sample Id: 588822-002
MS Sample Id: 588822-002 S
MSD Sample Id: 588822-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.100 | 0.0578 | 58 | 0.0661 | 65 | 70-130 | 13 | 35 | mg/kg | 06.14.18 17:55 | X |
| Toluene | <0.00201 | 0.100 | 0.0592 | 59 | 0.0663 | 66 | 70-130 | 11 | 35 | mg/kg | 06.14.18 17:55 | X |
| Ethylbenzene | <0.00201 | 0.100 | 0.0519 | 52 | 0.0592 | 59 | 70-130 | 13 | 35 | mg/kg | 06.14.18 17:55 | X |
| m,p-Xylenes | <0.00402 | 0.201 | 0.107 | 53 | 0.120 | 60 | 70-130 | 11 | 35 | mg/kg | 06.14.18 17:55 | X |
| o-Xylene | <0.00201 | 0.100 | 0.0520 | 52 | 0.0572 | 57 | 70-130 | 10 | 35 | mg/kg | 06.14.18 17:55 | X |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 106 | | 97 | | 70-130 | % | 06.14.18 17:55 |
| 4-Bromofluorobenzene | 106 | | 123 | | 70-130 | % | 06.14.18 17:55 |

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

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

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

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



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# CHAIN OF CUSTODY

Page 1 Of 1

Xenco Quote #

Xenco Job # 589277

**Client / Reporting Information**

Company Name / Branch: LT Environmental, Inc. - Permian Office
Company Address: 3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705
Email: Abaker@LTEnv.com
Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Lynda Lambeth

**Project Information**

Project Name/Number: Golden 8 Federal 1
Project Location: NM 2RP-3612
Invoice To: XTO Energy - Kyle Littrell
PO Number:

**Analytical Information**

| No. | Field ID / Point of Collection | Collection: Sample Depth | Date | Time | Matrix | # of bottles | Number of preserved bottles: HCl | NaOH/Zn Acetate | HNO3 | H2SO4 | NaOH | NaHSO4 | MEOH | NONE | BTEX 8021 (only BTEX) | TPH (MRO GRO DRO) 8015 | Chloride (300.0) | Field Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BH01A | 7' | 06/13/18 | 9:50 | S | 1 | | | | | | | | X | X | X | X | SS09 |
| 2 | BH01B | 10.5' | ↓ | 10:30 | S | 1 | | | | | | | | X | X | X | X | ↓ |
| 3 | BH01C | 12.5' | ↓ | 11:15 | S | 1 | | | | | | | | X | X | X | X | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |

**Matrix Codes**

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

**Turnaround Time ( Business days)**

- [X] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

**Data Deliverable Information**

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

**Notes:**

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

| | Relinquished by Sampler: | Date/Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | | 06/15/18 13:00 | 1 | 2 | 6/13/18 15:30 | 2 |
| 3 | Relinquished by: | Date Time: 6/14/18 14:00 | Received By: 3 | Relinquished By: 4 | Date Time: | Received By: 4 |
| 5 | Relinquished by: | Date Time: | Received By: 5 | Custody Seal # | Preserved where applicable | On Ice: X |

Cooler Temp. 3.5°C Thermo. Corr. Factor 1.8 0°C

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Received by OCD: 4/14/2026 8:17:09 PM
Final 1.000
Page 15 of 17
Released to Imaging: 4/21/2026 9:41:19 AM




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

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

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 06/14/2018 02:00:00 PM

**Work Order #:** 589277

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

**Temperature Measuring device used : R8**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 3.5 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **N/A** |
| #5 Custody Seals intact on sample bottles? | **N/A** |
| #6*Custody Seals Signed and dated? | **N/A** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **N/A** |
| #18 Water VOC samples have zero headspace? | **N/A** |

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Brianna Teel Date: 06/14/2018
Brianna Teel

**Checklist reviewed by:** Jessica Kramer Date: 06/14/2018
Jessica Kramer

ENSOLUM

# APPENDIX C

## September 2, 2020 *Deferral Request* (Incident Number NAB1929041495)

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 | NAB1929041495 |
| District RP | 2RP-5672 |
| Facility ID | |
| Application ID | pAB1929041013 |

# Release Notification

**GEJ4N-190927-C-1410**

## Responsible Party

| | |
|---|---|
| Responsible Party XTO Energy | OGRID 5380 |
| Contact Name Kyle Littrell | Contact Telephone 432-221-7331 |
| Contact email Kyle_Littrell@xtoenergy.com | Incident # *(assigned by OCD)* NAB1929041495 |
| Contact mailing address 522 W. Mermod, Calsbad, NM 88220 | |

## Location of Release Source

Latitude 32.4912491 Longitude -104.0083542
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Golden 8 Federal Battery 1 | Site Type Battery |
| Date Release Discovered 09/12/2019 | API# *(if applicable)* *30-015-26931 (Golden 8 Federal #001)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| K | 08 | 21S | 29E | EDDY |

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

## Nature and Volume of Release

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

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 0.01 | Volume Recovered (bbls) 0.01 |
| ☒ Produced Water | Volume Released (bbls) 5.79 | Volume Recovered (bbls) 4.99 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: Produced water leaked from bottom of the Heater Treater due to internal corrosion. Release was contained inside dirt berm of the Battery. Additional third party resources have been retained to assist in the remediation.

State of New Mexico
Oil Conservation Division



| | |
|---|---|
| Incident ID | NAB1929041493 |
| District RP | 2RP-5672 |
| Facility ID | |
| Application ID | pAB1929041013 |

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

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

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

N/A

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

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

Printed Name: Kyle Littrell  Title: SH&E Supervisor

Signature:  Date: 9-27-19

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

**OCD Only**

Received by: *Amalia Bustamante*  Date: *10/17/2019*

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAB1929041495 |
| District RP | 2RP-5672 |
| Facility ID | |
| Application ID | pAB1929041013 |

# Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | *NAB1929041495* |
| District RP | 2RP-5672 |
| Facility ID | |
| Application ID | pAB1929041013 |

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: 08/31/2020

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

**OCD Only**

Received by: Date:

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAB1929041495 |
| District RP | 2RP-5672 |
| Facility ID | |
| Application ID | pAB1929041013 |

# Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: _____Kyle Littrell_____ Title: _____SH&E Coordinator_____

Signature:_____ Date: __08/31/2020__

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

**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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

August 31, 2020

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

**RE: Deferral Request**
**Golden 8 Federal Battery 1**
**Remediation Permit Number 2RP-5672**
**Incident Number NAB1929041495**
**Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling and remediation activities at the Golden 8 Federal Battery 1 (Site) in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil following the release of crude oil and produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling following excavation activities, XTO is submitting this Deferral Request, and requesting no further action (NFA) for Remediation Permit (RP) Number 2RP-5672 and Incident Number NAB1929041495 until the Site is reconstructed and/or the pad is abandoned.

## RELEASE BACKGROUND

On September 12, 2019, internal corrosion from the bottom of the heater treater resulted in the release of approximately 0.01 barrels (bbls) of crude oil and approximately 5.79 bbls of produced water into the earthen berm surrounding the battery. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 0.01 bbls of crude oil and approximately 4.99 bbls of produced water were recovered from within the dirt berm area. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 27, 2019, and subsequently assigned RP Number 2RP-5672 and Incident Number NAB1929041495.

## SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well

322850104014201, located approximately 1.43 miles southwest of the Site. The groundwater well has a depth to groundwater of 134 feet bgs and a total depth of 160 feet bgs. Ground surface elevation at the groundwater well location is 3,289 feet above mean sea level (AMSL), which is approximately 113 feet lower in elevation than the Site. There are 7 water wells within a 2.5-mile radius of the Site with data indicating depth to water is greater than 100 feet bgs, indicating the regional groundwater aquifer, including beneath the Site, is greater than 100 feet bgs. These water wells are depicted on Figure 1 and referenced well records are in Attachment 1. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash located approximately 4,223 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology based on being located in a medium potential karst designation area by the Bureau of Land Management (BLM). The Site receptors are identified on Figure 1.

## CLOSURE CRITERIA

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

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

## SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On September 17, 2019, LTE personnel evaluated the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected four preliminary soil samples (SS01 through SS04) within and around the release extent at a depth of approximately 0.5 feet bgs to assess for the presence or absence of soil impacts at the ground surface. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a photo-ionization detector (PID) and Hach© chloride QuanTab© test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit, and a photographic log is included in Attachment 2.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The laboratory analytical results indicated preliminary soil samples SS01, SS02, and SS04 were in compliance with the Closure Criteria. Based on field screening results and laboratory analytical results for preliminary soil sample SS03, excavation activities appeared to be warranted at the Site. The laboratory analytical results are summarized in Table 1 and the laboratory data reports are provided in Attachment 3.

## INITIAL DELINEATION ACTIVITIES

LTE personnel oversaw the advancement of three potholes (PH01 through PH03) within the release extent between December 3 and December 4, 2019 in coordination with excavation activities. Two discrete soil samples were collected from each pothole utilizing a backhoe to a depth of approximately 1-foot and 3 feet bgs.

Due to limitations of mechanical means to collect additional delineation soils samples in the vicinity of processing equipment, three boreholes (BH01 through BH03) were advanced via hand-auger within the release area. Boreholes BH01 and BH02 were advanced within the southern and western portion of the release extent, respectively, to a depth of approximately 0.5 feet bgs and 2 feet bgs; BH03 was advanced within the west-central portion of the release extent to a depth of 0.5 feet bgs before encountering auger refusal.

Soil from all potholes and boreholes were field screened for volatile aromatic hydrocarbons and chloride. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico. Field screening results and observations for each pothole and borehole location were logged on lithologic/soil sampling logs, which are included in Attachment 4. The delineation soil sample locations are depicted on Figure 3.

Delineation soil samples from pothole PH03 and boreholes BH01 and BH02 were below the Closure Criteria for benzene, BTEX, TPH-GRO, TPH-DRO, TPH, and chloride. The shallow (0.5 feet) soil samples from PH01, PH02, and BH03 exceeded the Closure Criteria for TPH-GRO, TPH-DRO and/or TPH. All samples collected at the depth in the potholes and boreholes met Closure Criteria.

Laboratory analytical results for all delineation samples are summarized in Table 1 and the laboratory data reports are provided in Attachment 3.

## EXCAVATION ACTIVITIES

From December 4, 2019 through February 20, 2020, LTE oversaw excavation of impacted soil, where possible, as indicated by visual observations, field screening results, and preliminary and delineation soil sample results. Excavation activities were performed in three areas using a track-mounted backhoe and hand shoveling as illustrated on Figure 4.

Following removal of impacted soil from the excavations, LTE collected 5-point composite soil samples following the required 200 square foot frequency from sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The samples were handled and analyzed as described above at Xenco in Carlsbad, New Mexico.

The three excavation extents totaled approximately 240 square feet in area and ranged in depth from 0.5 feet in the west to 3.5 feet in the south. A total of approximately 27 cubic yards of impacted soil were removed from the Site. The impacted soil was transported and properly disposed of at the R360 landfill facility located in Carlsbad, New Mexico.

All excavation confirmation samples met Closure Criteria, except for two sidewall samples collected from the southern-most excavation. Sidewall samples SW03 and SW04 contained 1,860 mg/kg and 1,400 mg/kg TPH-GRO + TPH-DRO, respectively. Laboratory analytical results for all excavation samples are summarized in Table 1 and the laboratory data reports are provided in Attachment 3.

Additional soil was removed from the sidewall at sample SW03 and soil sample SW05 was collected for confirmation. The new sample met Closure Criteria. Additional excavation at SW04 was not possible due to XTO safety policy regarding soil disturbing activities within 2 feet of any above ground production equipment and active pipelines.

LTE personnel returned to the Site to collect a delineation pothole sample, PH04, to attempt to delineate impacts identified in SW04. Three discrete soil samples were collected from PH04 utilizing a backhoe at depths of approximately 1 foot, 3 feet, and 5 feet bgs. All samples from pothole PH04 met Closure Criteria.

## DEFERRAL REQUEST

The release occurred in an area of active production equipment. Elevated concentrations of TPH identified during delineation activities were remediated to the maximum extent practical in coordination with XTO safety policy regarding earth moving activities near active production equipment. Approximately 27 cubic yards of impacted soil were excavated from the Site via track hoe, hand shoveling, and a hydrovac truck. Impacted soil between the active aboveground equipment, as indicated by laboratory analytical results for confirmation sidewall soil sample

SW04, could not be excavated further due to these safety limitations. The area of deferral is depicted in Figure 5.

The residual soil has been delineated. Soil samples from PH03, BH01, and BH02 confirm no impacted soil in other areas of the release footprint. Soil represented by SW04 is delineated vertically by the clean excavation floor sample (FS02) and pothole soil samples collected from total depths. Excavation and delineation samples from the release footprint delineate the impacted soil laterally to the south, east, and west. Soil samples collected from PH04 delineate the remaining impacted soil to the north. An estimated 4 cubic yards of impacted soil remains within 2 feet of active production equipment.

XTO respectfully requests NFA and deferral of final remediation for RP Number 2RP-5672 and Incident Number NAB192904149. XTO requests permission to backfill the excavation extents and complete remediation of the remaining impacted soil in the area immediately surrounding the containment during any future major construction, final facility abandonment, or when the structure is removed, whichever occurs first. LTE and XTO do not believe deferment will result in an imminent risk to human health, the environment, or groundwater. Upon approval of this deferral request, XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Kalei Jennings
Project Environmental Scientist

Ashley L. Ager, P.G.
Senior Geologist

cc: Kyle Littrell, XTO
United States Bureau of Land Management – New Mexico
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Attachments:

| | |
|---|---|
| Figure 1 | Site Location Map |
| Figure 2 | Preliminary Soil Sample Locations |
| Figure 3 | Delineation Soil Sample Locations |
| Figure 4 | Excavation Soil Sample Locations |
| Figure 5 | Deferral Area |
| Table 1 | Soil Analytical Report |
| Attachment 1 | Referenced Well Logs |
| Attachment 2 | Photographic Log |
| Attachment 3 | Laboratory Analytical Reports |
| Attachment 4 | Lithologic/Soil Sample Logs |

FIGURES

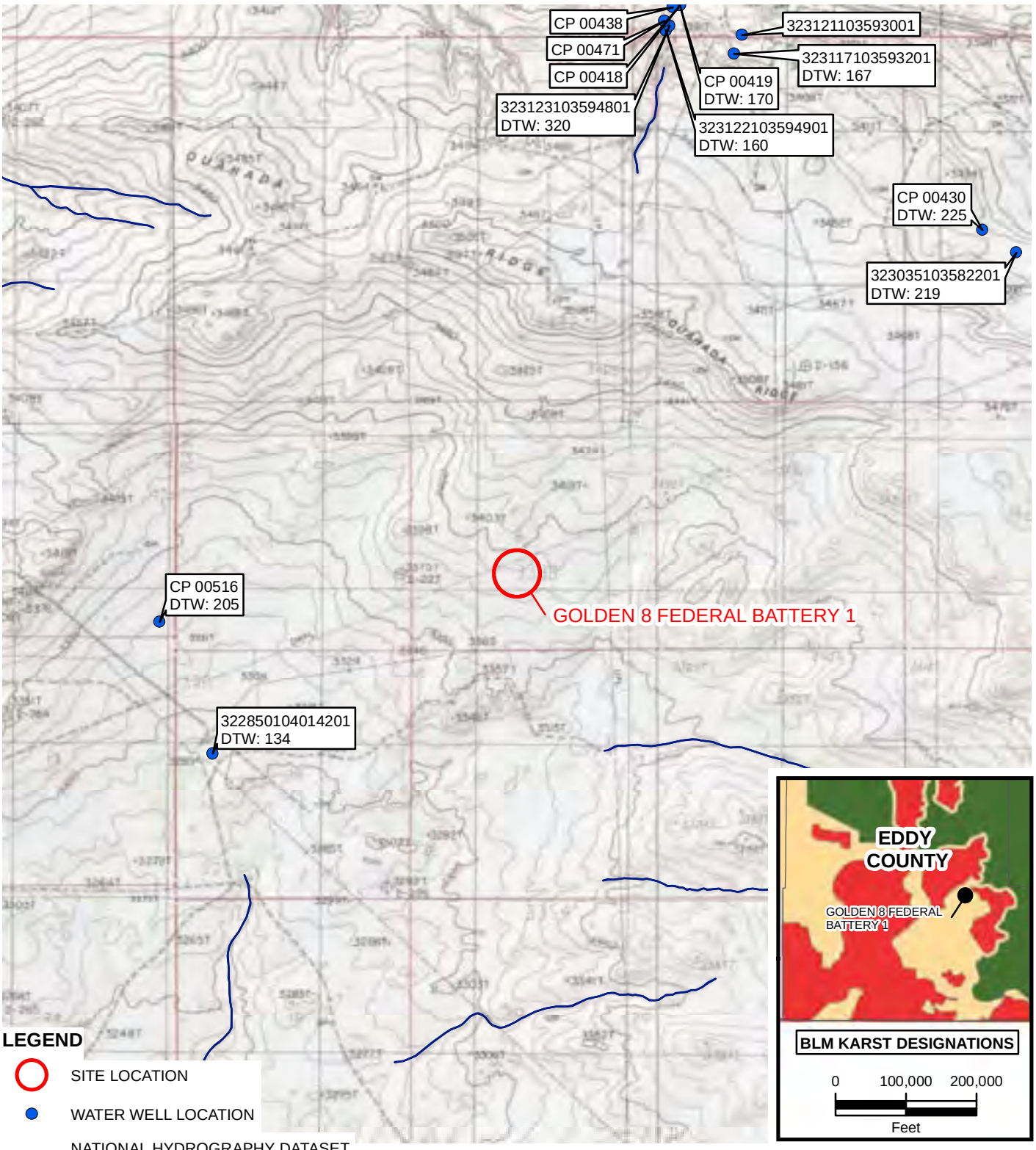



FIGURE 1
SITE LOCATION MAP
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG01_SL_5672.mxd




FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG02_PRELIMINARY_2019.mxd

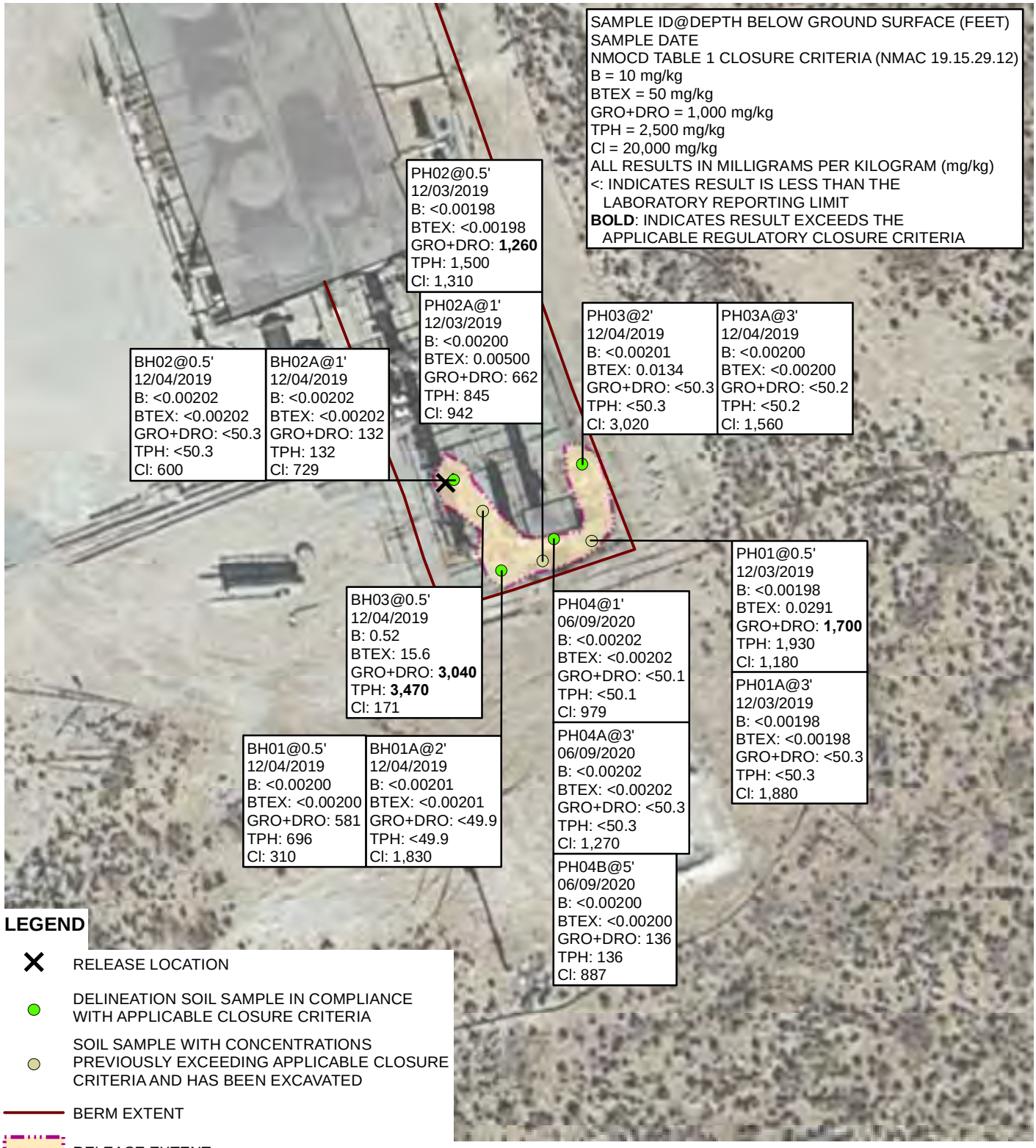



FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG03_DELINEATION_2020.mxd




**LEGEND**

- RELEASE LOCATION
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- BERM EXTENT
- EXCAVATION EXTENT
- INFRASTRUCTURE

NOTE: REMEDIATION PERMIT NUMBER 2RP-5672
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF GOOGLE EARTH 2019

0 40 80
Feet

N

FIGURE 4
EXCAVATION SOIL SAMPLE LOCATIONS
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG04_EXCAVATION_ND_2020.mxd




IMAGE COURTESY OF GOOGLE EARTH 2019

**LEGEND**

- RELEASE LOCATION
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- BERM EXTENT
- EXCAVATION EXTENT
- INFRASTRUCTURE
- DEFERRAL AREA

NOTE: REMEDIATION PERMIT NUMBER 2RP-5672
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

0 40 80
Feet

N

FIGURE 5
DEFERRAL AREA
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG05_DEFERRAL_2020.mxd

TABLES

# TABLE 1
# SOIL ANALYTICAL RESULTS

## GOLDEN 8 FEDERAL BATTERY 1
## REMEDIATION PERMIT NUMBER 2RP-5672
## EDDY COUNTY, NEW MEXICO
## XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Table 1 Closure Criteria** | | | 10 | NE | NE | NE | **50** | NE | NE | NE | **1,000** | **2,500** | **20,000** |
| SS01 | 0.5 | 9/17/2019 | 0.0306 | 5.79 | 1.51 | 8.96 | 16.3 | 83.1 | 392 | 61 | 475 | 537 | 2,230 |
| SS02 | 0.5 | 9/17/2019 | <0.00200 | 0.00549 | <0.00200 | <0.00200 | 0.00549 | <49.9 | 182 | <49.9 | 182 | 182 | 1,330 |
| SS03 | 0.5 | 9/17/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.0 | 1,230 | 215 | **1,230** | 1,450 | 857 |
| SS04 | 0.5 | 9/17/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <49.8 | 233 | 62.7 | 233 | 296 | 232 |
| PH01 | 0.5 | 12/3/2019 | <0.00198 | <0.00198 | 0.00843 | 0.0207 | 0.0291 | <49.8 | 1,700 | 232 | **1,700** | 1,930 | 1,180 |
| PH01A | 3 | 12/3/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 1,880 |
| PH02 | 0.5 | 12/3/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.0 | 1,260 | 243 | **1,260** | 1,500 | 1,310 |
| PH02A | 1 | 12/3/2019 | <0.00200 | <0.00200 | <0.00200 | 0.005 | 0.005 | <50.3 | 662 | 183 | 662 | 845 | 942 |
| PH03 | 2 | 12/4/2019 | <0.00201 | <0.00201 | <0.00201 | 0.0134 | 0.0134 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 3,020 |
| PH03A | 3 | 12/4/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 1,560 |
| PH04 | 1 | 06/09/2020 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 979 |
| PH04A | 3 | 06/09/2020 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 1,270 |
| PH04B | 5 | 06/09/2020 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.3 | 136 | <50.3 | 136 | 136 | 887 |
| BH01 | 0.5 | 12/4/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.0 | 581 | 115 | 581 | 696 | 310 |
| BH01A | 2 | 12/4/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,830 |
| BH02 | 0.5 | 12/4/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 600 |
| BH02A | 1 | 12/4/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <50.2 | 132 | <50.2 | 132 | 132 | 729 |
| BH03 | 0.5 | 12/4/2019 | 0.52 | 6.3 | 1.26 | 7.54 | 15.6 | 383 | 2,660 | 424 | **3,040** | **3,470** | 171 |
| SW01 | 0 - 3 | 12/4/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.0 | 686 | 88.6 | 686 | 775 | 1,090 |
| SW02 | 0 - 3 | 12/4/2019 | <0.00203 | <0.00203 | <0.00203 | <0.00203 | <0.00203 | <50.2 | 95.5 | <50.2 | 95.5 | 95.5 | 1,290 |
| SW03 | 0 - 3.5 | 12/4/2019 | <0.00199 | 0.00287 | 0.287 | 0.75 | 1.04 | 281 | 1,580 | 151 | **1,860** | 2,010 | 707 |
| SW04 | 0 - 4 | 1/31/2020 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <49.9 | 1400 | 159 | **1,400** | 1,560 | 2,050 |
| SW04 | 0 - 4 | 06/09/2020 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <250 | 3460 | 461 | **3,460** | **3,920** | 5,650 |

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# TABLE 1
# SOIL ANALYTICAL RESULTS

## GOLDEN 8 FEDERAL BATTERY 1
## REMEDIATION PERMIT NUMBER 2RP-5672
## EDDY COUNTY, NEW MEXICO
## XTO ENERGY, INC.

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Table 1 Closure Criteria** | | | 10 | NE | NE | NE | **50** | NE | NE | NE | **1,000** | **2,500** | **20,000** |
| SW05 | 0 - 4 | 1/31/2020 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 395 |
| FS01 | 0.5 - 3 | 12/3/2019 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <0.00201 | <50.2 | 155 | <50.2 | 155 | 155 | 567 |
| FS02 | 3.5 | 12/4/2019 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <0.00202 | <49.9 | 155 | <49.9 | 155 | 155 | 969 |
| FS03 | 0.5 | 02/20/2020 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <49.9 | 371 | 66.9 | 371 | 438 | 487 |

**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
TEXT - indicates soil was removed during remediation activities

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ATTACHMENT 1: REFERENCED WELL LOGS

# New Mexico Office of the State Engineer
# Water Right Summary

get image list

**WR File Number:** CP 00516 **Subbasin:** CP **Cross Reference:** -

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

**Primary Status:** PMT PERMIT

**Total Acres:** **Subfile:** - **Header:** -

**Total Diversion:** 0 **Cause/Case:** -

**Owner:** PERRY R. BASS INC.

**Documents on File**

| | Trn # | Doc | File/Act | Status 1 | Status 2 | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|---|---|---|---|---|---|---|---|---|---|---|
| get images | 473794 | 72121 | 1973-06-04 | PMT | LOG | CP 00516 | T | | 3 | |

**Current Points of Diversion**

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | Q 64 | Q16 | Q4 | Sec | Tws | Rng | X | Y | Other Location Desc |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 00516 | | Shallow | 4 | 4 | 4 | 12 | 21S | 28E | 590901 | 3594984* | |

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

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# New Mexico Office of the State Engineer
# Point of Diversion Summary

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 00516 | 4 | 4 | 4 | 12 | 21S | 28E | 590901 | 3594984* |

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

| | | | | | |
|---|---|---|---|---|---|
| **Driller License:** | 46 | **Driller Company:** | ABBOTT BROTHERS COMPANY | | |
| **Driller Name:** | ABBOTT, MURRELL | | | | |
| **Drill Start Date:** | 05/30/1973 | **Drill Finish Date:** | 06/06/1973 | **Plug Date:** | |
| **Log File Date:** | 06/14/1973 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | |
| **Casing Size:** | 7.00 | **Depth Well:** | 275 feet | **Depth Water:** | 205 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 260 | 275 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 253 | 275 |

***UTM location was derived from PLSS - see Help**

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# USGS 322850104014201 21S.29E.18.13320

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

## Well Site

DESCRIPTION:

Latitude 32°28'50", Longitude 104°01'42" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 160 feet
Land surface altitude: 3,289 feet above NAVD88.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|---|---|---|
| Field groundwater-level measurements | 1948-12-30 | 2015-12-16 | 6 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site

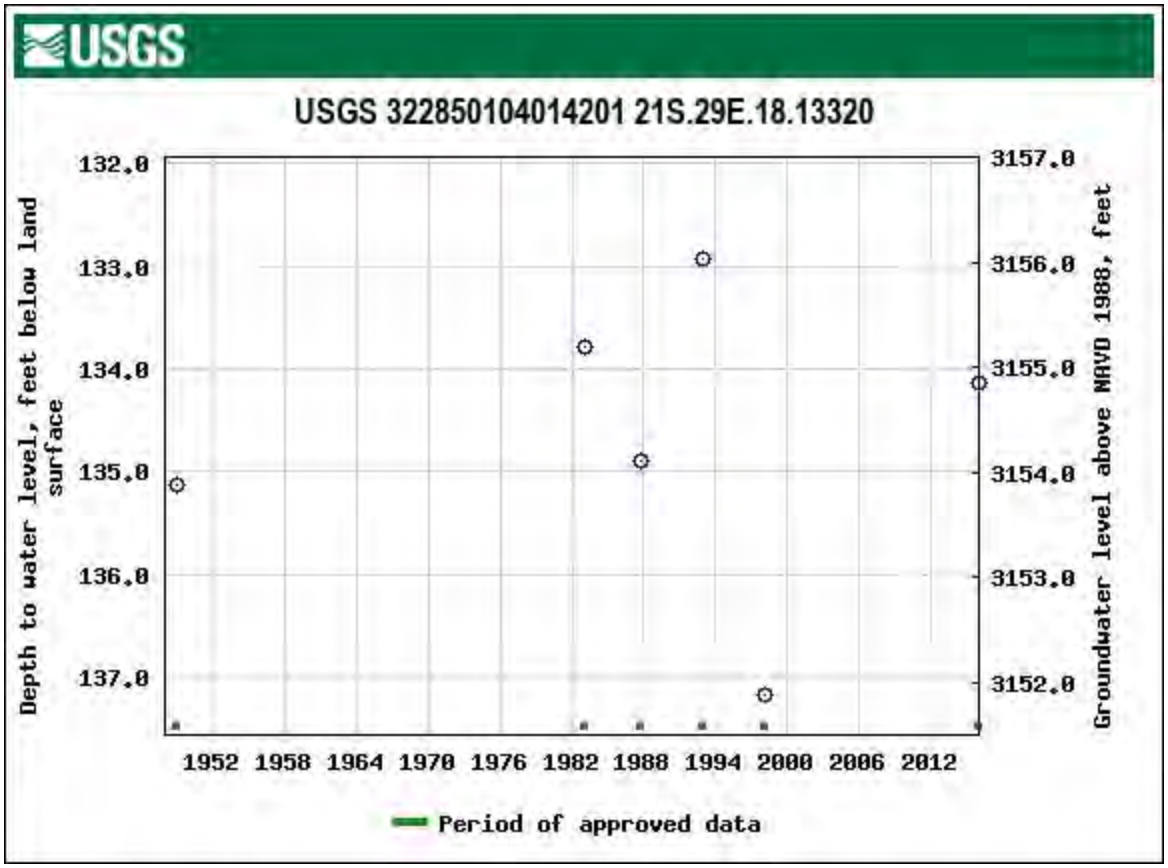
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: NWIS Site Information for USA: Site Inventory**
**URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=322850104014201**

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-08-31 16:46:30 EDT
0.28 0.28 caww01


USGS
USGS 322850104014201 21S.29E.18.13320
Depth to water level, feet below land surface
132.0
133.0
134.0
135.0
136.0
137.0
Groundwater level above NAVD 1988, feet
3157.0
3156.0
3155.0
3154.0
3153.0
3152.0
1952 1958 1964 1970 1976 1982 1988 1994 2000 2006 2012
Period of approved data

# *New Mexico Office of the State Engineer*
# Water Right Summary

get image list

**WR File Number:** CP 00430 **Subbasin:** CP **Cross Reference:** -

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

**Primary Status:** PMT PERMIT

**Total Acres:** **Subfile:** - **Header:** -

**Total Diversion:** 0 **Cause/Case:** -

**Owner:** PAN AMERICAN PETROLEUM COMPANY

**Documents on File**

| | Trn # | Doc | File/Act | Status 1 | Status 2 | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|---|---|---|---|---|---|---|---|---|---|---|
| get images | 473385 | 72121 | 1989-12-20 | EXP | EXP | CP 00430 | T | | 3 | |
| get images | 473378 | COWNF | 1967-04-26 | CHG | PRC | CP 00430 | T | | 0 | |
| get images | 473326 | 72121 | 1967-04-07 | PMT | LOG | CP 00430 | T | | 3 | |

**Current Points of Diversion**

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | Q 64 | Q16 | Q4 | Sec | Tws | Rng | X | Y | Other Location Desc |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 00430 | | Shallow | 1 | 4 | 1 | 03 | 21S | 29E | 596221 | 3597558* | |

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

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*New Mexico Office of the State Engineer*

# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 00430 | 1 | 4 | 1 | 03 | 21S | 29E | 596221 | 3597558* |

| | | | | | |
|---|---|---|---|---|---|
| **Driller License:** | 46 | **Driller Company:** | ABBOTT BROTHERS COMPANY | | |
| **Driller Name:** | ABBOTT, MURRELL | | | | |
| **Drill Start Date:** | 04/04/1967 | **Drill Finish Date:** | 04/06/1967 | **Plug Date:** | 06/27/1967 |
| **Log File Date:** | 04/21/1967 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | |
| **Casing Size:** | 7.00 | **Depth Well:** | 360 feet | **Depth Water:** | 225 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 175 | 205 | Other/Unknown |
| | 345 | 350 | Limestone/Dolomite/Chalk |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 310 | 360 |

***UTM location was derived from PLSS - see Help**

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# *New Mexico Office of the State Engineer*
# Water Right Summary

get image list

**WR File Number:** CP 00419 **Subbasin:** CP **Cross Reference:** -

**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

**Primary Status:** PMT PERMIT

**Total Acres:** **Subfile:** - **Header:** -

**Total Diversion:** 0 **Cause/Case:** -

**Owner:** MCVAY DRILLING COMPANY

**Documents on File**

| | Trn # | Doc | File/Act | Status 1 | Status 2 | Transaction Desc. | From/ To | Acres | Diversion | Consumptive |
|---|---|---|---|---|---|---|---|---|---|---|
| get images | 473268 | 72121 | 1966-12-01 | PMT | LOG | CP 00419 | T | | 3 | |

**Current Points of Diversion**

(NAD83 UTM in meters)

| POD Number | Well Tag | Source | Q 64 | Q16 | Q4 | Sec | Tws | Rng | X | Y | Other Location Desc |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CP 00419 | | Shallow | | 4 | 3 | 32 | 20S | 30E | 594250 | 3599003* | W 1/2 |

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

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*New Mexico Office of the State Engineer*

# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | CP 00419 | 4 | 3 | | 32 | 20S | 30E | 594250 | 3599003* |

| | | | | | |
|---|---|---|---|---|---|
| **Driller License:** | 46 | **Driller Company:** | ABBOTT BROTHERS COMPANY | | |
| **Driller Name:** | ABBOTT, MURRELL | | | | |
| **Drill Start Date:** | 11/18/1966 | **Drill Finish Date:** | 11/19/1966 | **Plug Date:** | |
| **Log File Date:** | 12/01/1966 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | |
| **Casing Size:** | 7.00 | **Depth Well:** | 262 feet | **Depth Water:** | 170 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 195 | 256 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 198 | 262 |

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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# USGS 323035103582201 21S.29E.03.14413

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

## Well Site

DESCRIPTION:

Latitude 32°30'35", Longitude 103°58'22" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 360 feet
Land surface altitude: 3,425 feet above NAVD88.
Well completed in "Seven Rivers Formation" (313SVRV) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|---|---|---|
| Field groundwater-level measurements | 1983-01-18 | 1987-10-14 | 2 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site

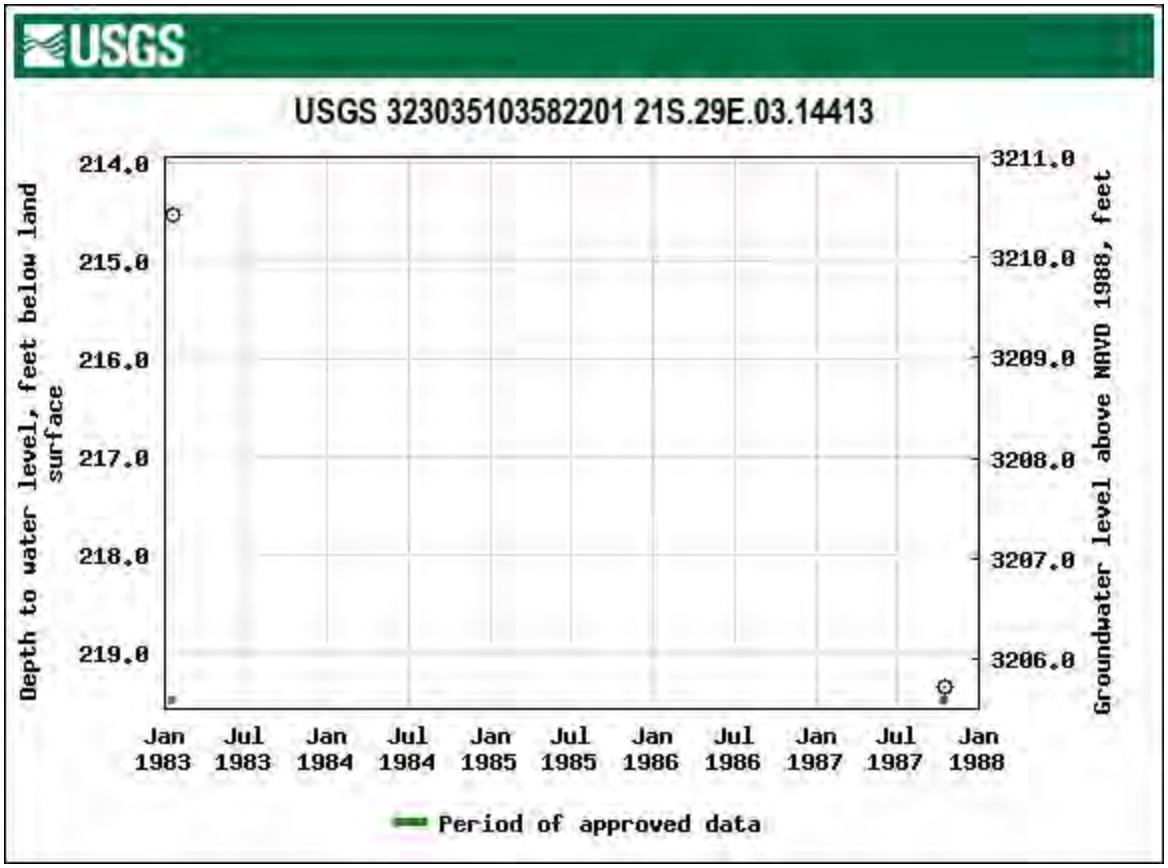
Automated retrievals
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Data Tips
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**Title: NWIS Site Information for USA: Site Inventory**
**URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323035103582201**

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-08-31 16:47:59 EDT
0.28 0.28 caww01


USGS
USGS 323035103582201 21S.29E.03.14413
Depth to water level, feet below land surface
214.0
215.0
216.0
217.0
218.0
219.0
Groundwater level above NAVD 1988, feet
3211.0
3210.0
3209.0
3208.0
3207.0
3206.0
Jan 1983
Jul 1983
Jan 1984
Jul 1984
Jan 1985
Jul 1985
Jan 1986
Jul 1986
Jan 1987
Jul 1987
Jan 1988
Period of approved data

## National Water Information System: Web Interface



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# USGS 323117103593201 20S.30E.32.433342

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

## Well Site

DESCRIPTION:

Latitude 32°31'17", Longitude 103°59'32" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 302 feet
Land surface altitude: 3,393 feet above NAVD88.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|---|---|---|
| Field groundwater-level measurements | 1968-05-27 | 1994-03-02 | 13 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site

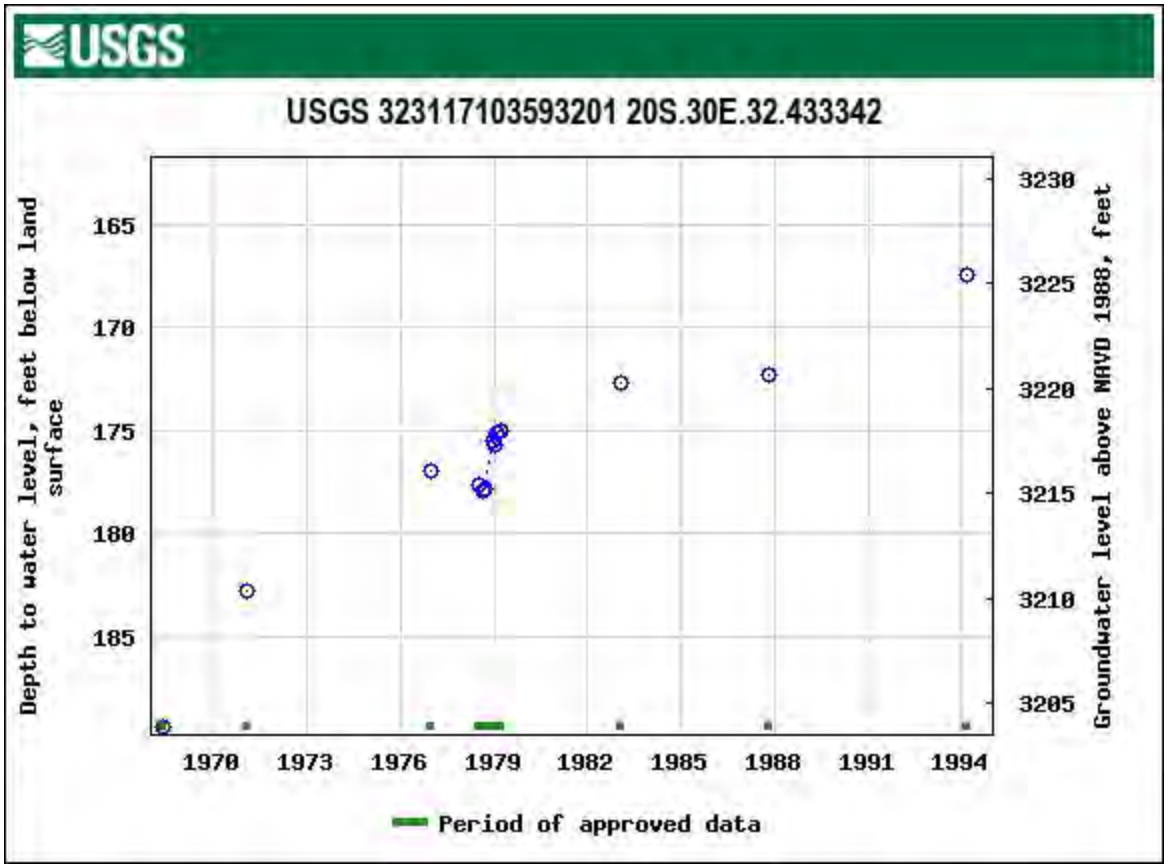
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Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: NWIS Site Information for USA: Site Inventory**
**URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323117103593201**

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-08-31 16:49:39 EDT
0.28 0.27 caww01


USGS
USGS 323117103593201 20S.30E.32.433342
Depth to water level, feet below land surface
165
170
175
180
185
Groundwater level above NAVD 1988, feet
3230
3225
3220
3215
3210
3205
1970
1973
1976
1979
1982
1985
1988
1991
1994
Period of approved data

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# USGS 323123103594801 20S.30E.32.341344

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

## Well Site

DESCRIPTION:

Latitude 32°31'23", Longitude 103°59'48" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 2515 feet
Land surface altitude: 3,379 feet above NAVD88.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|---|---|---|
| Field groundwater-level measurements | 1967-09-19 | 1994-03-02 | 12 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site

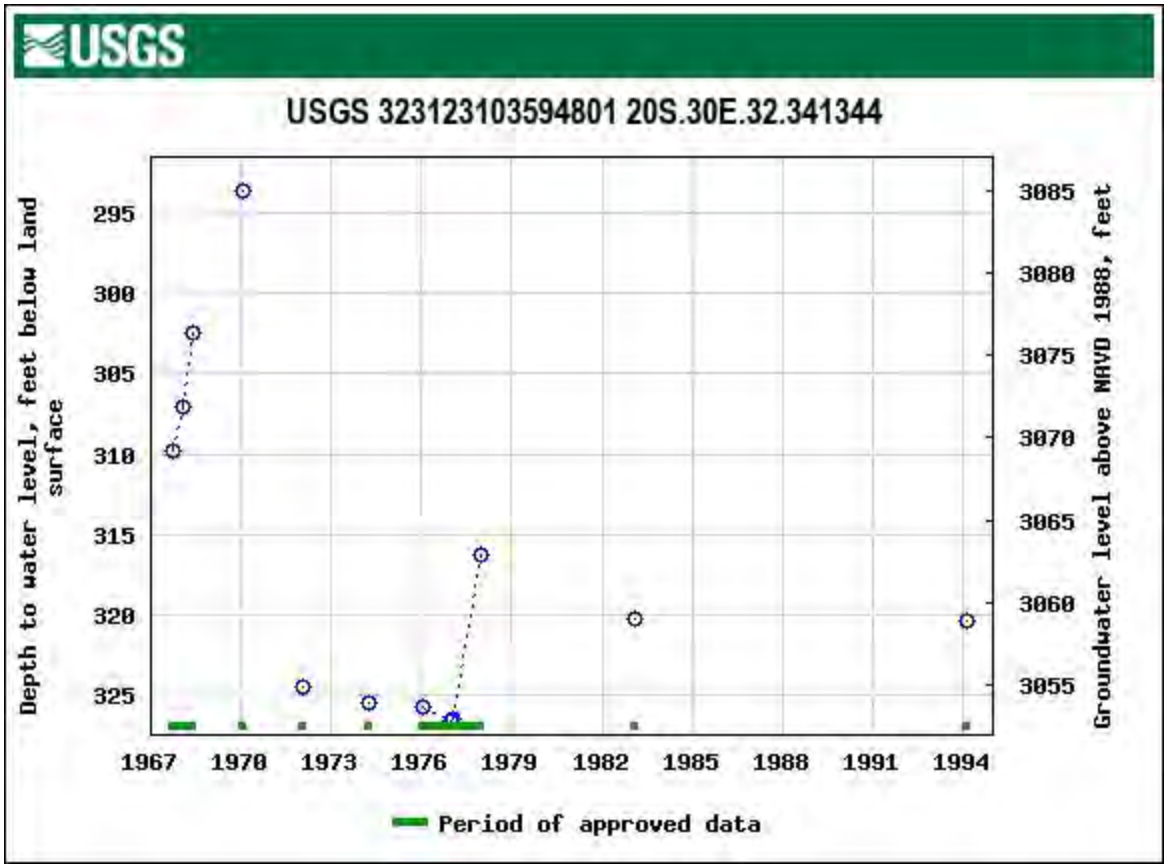
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[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
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Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: NWIS Site Information for USA: Site Inventory**
**URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323123103594801**

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-08-31 16:54:48 EDT
1.18 0.27 caww01


USGS
USGS 323123103594801 20S.30E.32.341344
Depth to water level, feet below land surface
295
300
305
310
315
320
325
Groundwater level above NAVD 1988, feet
3085
3080
3075
3070
3065
3060
3055
1967
1970
1973
1976
1979
1982
1985
1988
1991
1994
Period of approved data

## National Water Information System: Web Interface



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- Full News

# USGS 323122103594901 20S.30E.32.343123

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

## Well Site

DESCRIPTION:

Latitude 32°31'22", Longitude 103°59'49" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 262 feet
Land surface altitude: 3,392 feet above NAVD88.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

| Data Type | Begin Date | End Date | Count |
|---|---|---|---|
| Field groundwater-level measurements | 1970-09-03 | 1994-03-02 | 5 |
| Revisions | Unavailable (site:0) (timeseries:0) | | |

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site

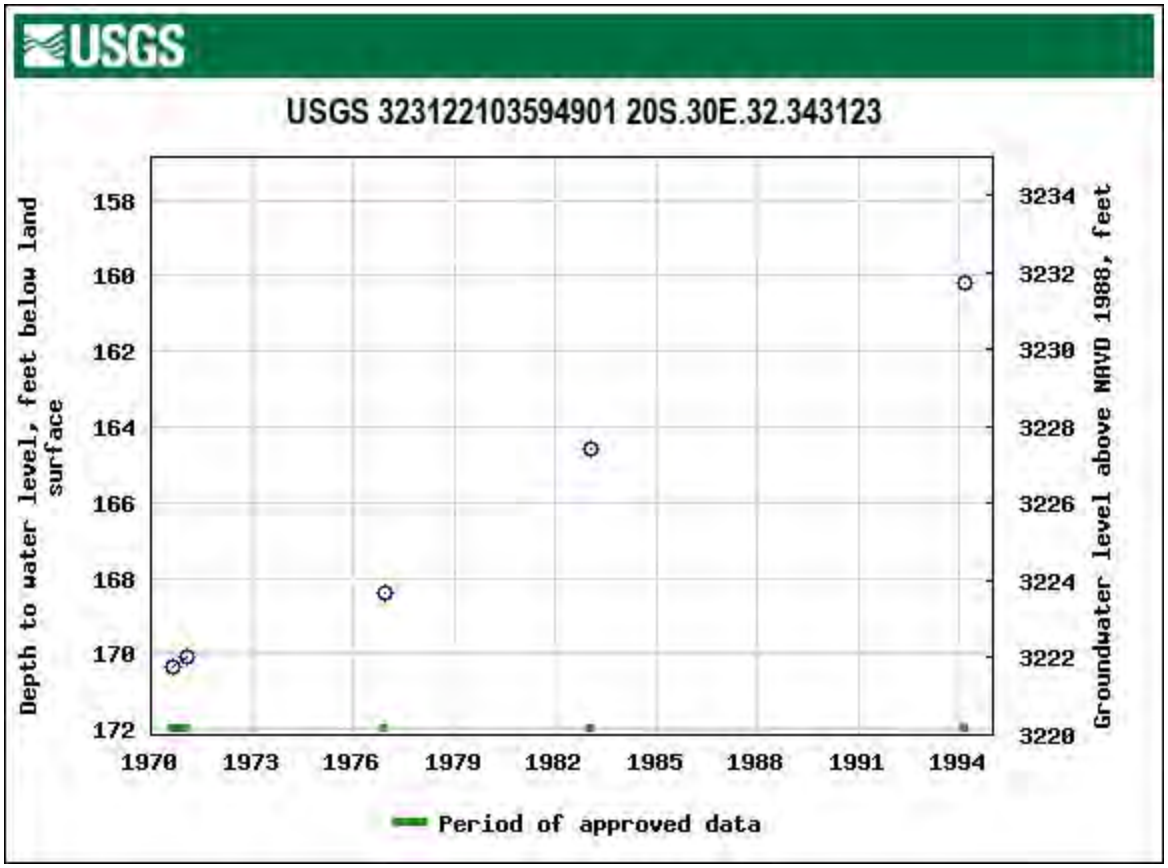
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U.S. Department of the Interior | U.S. Geological Survey

**Title: NWIS Site Information for USA: Site Inventory**
**URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323122103594901**

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2020-08-31 16:55:43 EDT
1.17 0.27 caww01


USGS
USGS 323122103594901 20S.30E.32.343123
Depth to water level, feet below land surface
158
160
162
164
166
168
170
172
Groundwater level above NAVD 1988, feet
3234
3232
3230
3228
3226
3224
3222
3220
1970
1973
1976
1979
1982
1985
1988
1991
1994
Period of approved data

# ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG



**Photograph 1:** Northwest view of release staining between equipment.



**Photograph 2:** Northern view of surficial staining within release extent.



**Photograph 3:** Surficial staining between equipment.



**Photograph 4:** View of equipment after hand shoveling activities.



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PHOTOGRAPHIC LOG



**Photograph 5:** Northern view of eastern excavation activities.



**Photograph 6:** Southern view of eastern excavation activities.



**Photograph 7:** View north of southern excavation activities.



**Photograph 8:** Surficial staining before hand shoveling activities.



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ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

# Analytical Report 637435

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Fed Battery**

**012919219**

**25-SEP-19**

Collected By: Client




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

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

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-21), Arizona (AZ0809), Arkansas (17-063-0)

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



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25-SEP-19

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

Reference: XENCO Report No(s): **637435**
**Golden 8 Fed Battery**
Project Address: Eddy County

**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) 637435. 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. 637435 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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



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# Sample Cross Reference 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SS01 | S | 09-17-19 10:22 | 0.5 ft | 637435-001 |
| SS02 | S | 09-17-19 10:23 | 0.5 ft | 637435-002 |
| SS03 | S | 09-17-19 10:24 | 0.5 ft | 637435-003 |
| SS04 | S | 09-17-19 10:25 | 0.5 ft | 637435-004 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Fed Battery***

Project ID: *012919219*
Work Order Number(s): *637435*

Report Date: *25-SEP-19*
Date Received: *09/19/2019*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3102203 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 637435-001.

Batch: LBA-3102246 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected;
Samples affected are: 637435-004.

# Certificate of Analysis Summary 637435

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Fed Battery

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:** Eddy County

**Date Received in Lab:** Thu Sep-19-19 10:50 am
**Report Date:** 25-SEP-19
**Project Manager:** Jessica Kramer

| Analysis Requested | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Lab Id:* | 637435-001 | | 637435-002 | | 637435-003 | | 637435-004 | | | | | |
| | *Field Id:* | SS01 | | SS02 | | SS03 | | SS04 | | | | | |
| | *Depth:* | 0.5- ft | | 0.5- ft | | 0.5- ft | | 0.5- ft | | | | | |
| | *Matrix:* | SOIL | | SOIL | | SOIL | | SOIL | | | | | |
| | *Sampled:* | Sep-17-19 10:22 | | Sep-17-19 10:23 | | Sep-17-19 10:24 | | Sep-17-19 10:25 | | | | | |
| **BTEX by EPA 8021B** **SUB: T104704400-18-18** | *Extracted:* | Sep-20-19 11:30 | | Sep-20-19 11:30 | | Sep-20-19 11:30 | | Sep-20-19 11:30 | | | | | |
| | *Analyzed:* | Sep-21-19 09:30 | | Sep-21-19 10:49 | | Sep-21-19 11:09 | | Sep-21-19 11:29 | | | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | 0.0306 | 0.00201 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| Toluene | | 5.79 D | 0.503 | 0.00549 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| Ethylbenzene | | 1.51 D | 0.503 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| m,p-Xylenes | | 6.39 D | 1.01 | <0.00400 | 0.00400 | <0.00397 | 0.00397 | <0.00396 | 0.00396 | | | | |
| o-Xylene | | 2.57 D | 0.503 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| Total Xylenes | | 8.96 | 0.503 | <0.00200 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| Total BTEX | | 16.3 | 0.00201 | 0.00549 | 0.00200 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | | | | |
| **Chloride by EPA 300** **SUB: T104704400-18-18** | *Extracted:* | Sep-20-19 13:20 | | Sep-20-19 13:20 | | Sep-20-19 13:20 | | Sep-20-19 13:20 | | | | | |
| | *Analyzed:* | Sep-20-19 16:31 | | Sep-20-19 16:39 | | Sep-20-19 17:01 | | Sep-20-19 17:09 | | | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 2230 | 24.8 | 1330 | 4.97 | 857 | 4.95 | 232 | 4.95 | | | | |
| **TPH by SW8015 Mod** **SUB: T104704400-18-18** | *Extracted:* | Sep-20-19 13:00 | | Sep-20-19 13:00 | | Sep-20-19 13:00 | | Sep-20-19 13:00 | | | | | |
| | *Analyzed:* | Sep-21-19 00:08 | | Sep-21-19 00:50 | | Sep-21-19 01:11 | | Sep-21-19 01:32 | | | | | |
| | *Units/RL:* | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | 83.1 | 50.0 | <49.9 | 49.9 | <50.0 | 50.0 | <49.8 | 49.8 | | | | |
| Diesel Range Organics (DRO) | | 392 | 50.0 | 182 | 49.9 | 1230 | 50.0 | 233 | 49.8 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 61.4 | 50.0 | <49.9 | 49.9 | 215 | 50.0 | 62.7 | 49.8 | | | | |
| Total GRO-DRO | | 475 | 50.0 | 182 | 49.9 | 1230 | 50.0 | 233 | 49.8 | | | | |
| Total TPH | | 537 | 50.0 | 182 | 49.9 | 1450 | 50.0 | 296 | 49.8 | | | | |

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

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

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS01** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-001 | Date Collected: | 09.17.19 10.22 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 09.20.19 13.20 | Basis: | Wet Weight |
| Seq Number: | 3102109 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **2230** | 24.8 | mg/kg | 09.20.19 16.31 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 09.20.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3102246 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **83.1** | 50.0 | mg/kg | 09.21.19 00.08 | | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **392** | 50.0 | mg/kg | 09.21.19 00.08 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **61.4** | 50.0 | mg/kg | 09.21.19 00.08 | | 1 |
| **Total GRO-DRO** | PHC628 | **475** | 50.0 | mg/kg | 09.21.19 00.08 | | 1 |
| **Total TPH** | PHC635 | **537** | 50.0 | mg/kg | 09.21.19 00.08 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 136 | % | 70-135 | 09.21.19 00.08 | ** |
| o-Terphenyl | 84-15-1 | 138 | % | 70-135 | 09.21.19 00.08 | ** |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS01** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-001 | Date Collected: | 09.17.19 10.22 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 09.20.19 11.30 | Basis: | Wet Weight |
| Seq Number: | 3102203 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Benzene** | 71-43-2 | **0.0306** | 0.00201 | mg/kg | 09.21.19 09.30 | | 1 |
| **Toluene** | 108-88-3 | **5.79** | 0.503 | mg/kg | 09.23.19 23.50 | D | 250 |
| **Ethylbenzene** | 100-41-4 | **1.51** | 0.503 | mg/kg | 09.23.19 23.50 | D | 250 |
| **m,p-Xylenes** | 179601-23-1 | **6.39** | 1.01 | mg/kg | 09.23.19 23.50 | D | 250 |
| **o-Xylene** | 95-47-6 | **2.57** | 0.503 | mg/kg | 09.23.19 23.50 | D | 250 |
| **Total Xylenes** | 1330-20-7 | **8.96** | 0.503 | mg/kg | 09.23.19 23.50 | | 250 |
| **Total BTEX** | | **16.3** | 0.00201 | mg/kg | 09.23.19 23.50 | | 250 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 139 | % | 70-130 | 09.21.19 09.30 | ** |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 09.21.19 09.30 | |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS02** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-002 | Date Collected: | 09.17.19 10.23 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 09.20.19 13.20 | Basis: | Wet Weight |
| Seq Number: | 3102109 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1330** | 4.97 | mg/kg | 09.20.19 16.39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 09.20.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3102246 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 09.21.19 00.50 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **182** | 49.9 | mg/kg | 09.21.19 00.50 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 09.21.19 00.50 | U | 1 |
| **Total GRO-DRO** | PHC628 | **182** | 49.9 | mg/kg | 09.21.19 00.50 | | 1 |
| **Total TPH** | PHC635 | **182** | 49.9 | mg/kg | 09.21.19 00.50 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 133 | % | 70-135 | 09.21.19 00.50 | |
| o-Terphenyl | 84-15-1 | 136 | % | 70-135 | 09.21.19 00.50 | ** |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS02** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-002 | Date Collected: | 09.17.19 10.23 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 09.20.19 11.30 | Basis: | Wet Weight |
| Seq Number: | 3102203 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 09.21.19 10.49 | U | 1 |
| **Toluene** | 108-88-3 | **0.00549** | 0.00200 | mg/kg | 09.21.19 10.49 | | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 09.21.19 10.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 09.21.19 10.49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 09.21.19 10.49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 09.21.19 10.49 | U | 1 |
| **Total BTEX** | | **0.00549** | 0.00200 | mg/kg | 09.21.19 10.49 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 09.21.19 10.49 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 09.21.19 10.49 | |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS03** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-003 | Date Collected: | 09.17.19 10.24 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 09.20.19 13.20 | Basis: | Wet Weight |
| Seq Number: | 3102109 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **857** | 4.95 | mg/kg | 09.20.19 17.01 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 09.20.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3102246 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 09.21.19 01.11 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1230** | 50.0 | mg/kg | 09.21.19 01.11 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **215** | 50.0 | mg/kg | 09.21.19 01.11 | | 1 |
| **Total GRO-DRO** | PHC628 | **1230** | 50.0 | mg/kg | 09.21.19 01.11 | | 1 |
| **Total TPH** | PHC635 | **1450** | 50.0 | mg/kg | 09.21.19 01.11 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 135 | % | 70-135 | 09.21.19 01.11 | |
| o-Terphenyl | 84-15-1 | 146 | % | 70-135 | 09.21.19 01.11 | ** |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS03** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-003 | Date Collected: | 09.17.19 10.24 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 09.20.19 11.30 | Basis: | Wet Weight |
| Seq Number: | 3102203 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 09.21.19 11.09 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 09.21.19 11.09 | |
| 4-Bromofluorobenzene | 460-00-4 | 76 | % | 70-130 | 09.21.19 11.09 | |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS04** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-004 | Date Collected: | 09.17.19 10.25 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | CHE | | | % Moisture: | |
| Analyst: | CHE | Date Prep: | 09.20.19 13.20 | Basis: | Wet Weight |
| Seq Number: | 3102109 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **232** | 4.95 | mg/kg | 09.20.19 17.09 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DVM | | | % Moisture: | |
| Analyst: | ARM | Date Prep: | 09.20.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3102246 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 09.21.19 01.32 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **233** | 49.8 | mg/kg | 09.21.19 01.32 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **62.7** | 49.8 | mg/kg | 09.21.19 01.32 | | 1 |
| **Total GRO-DRO** | PHC628 | **233** | 49.8 | mg/kg | 09.21.19 01.32 | | 1 |
| **Total TPH** | PHC635 | **296** | 49.8 | mg/kg | 09.21.19 01.32 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 21 | % | 70-135 | 09.21.19 01.32 | ** |
| o-Terphenyl | 84-15-1 | 22 | % | 70-135 | 09.21.19 01.32 | ** |

# Certificate of Analytical Results 637435

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SS04** | Matrix: | Soil | Date Received: | 09.19.19 10.50 |
| Lab Sample Id: | 637435-004 | Date Collected: | 09.17.19 10.25 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | KTL | | | % Moisture: | |
| Analyst: | KTL | Date Prep: | 09.20.19 11.30 | Basis: | Wet Weight |
| Seq Number: | 3102203 | | | SUB: | T104704400-18-18 |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00396 | 0.00396 | mg/kg | 09.21.19 11.29 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 09.21.19 11.29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 09.21.19 11.29 | |
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 09.21.19 11.29 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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



Released to Imaging: 4/21/2026 9:41:19 AM

# QC Summary 637435

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3102109 Matrix: Solid Date Prep: 09.20.19
MB Sample Id: 7686607-1-BLK LCS Sample Id: 7686607-1-BKS LCSD Sample Id: 7686607-1-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 | 242 | 97 | 242 | 97 | 90-110 | 0 | 20 | mg/kg | 09.20.19 14:09 | |

**Analytical Method:** **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3102109 Matrix: Soil Date Prep: 09.20.19
Parent Sample Id: 637438-001 MS Sample Id: 637438-001 S MSD Sample Id: 637438-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 35.3 | 250 | 275 | 96 | 275 | 96 | 90-110 | 0 | 20 | mg/kg | 09.20.19 16:16 | |

**Analytical Method:** **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3102109 Matrix: Soil Date Prep: 09.20.19
Parent Sample Id: 637510-001 MS Sample Id: 637510-001 S MSD Sample Id: 637510-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 192 | 252 | 415 | 88 | 415 | 88 | 90-110 | 0 | 20 | mg/kg | 09.20.19 14:32 | X |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3102246 Matrix: Solid Date Prep: 09.20.19
MB Sample Id: 7686628-1-BLK LCS Sample Id: 7686628-1-BKS LCSD Sample Id: 7686628-1-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) | <15.0 | 1000 | 1070 | 107 | 1060 | 106 | 70-135 | 1 | 20 | mg/kg | 09.20.19 19:35 | |
| Diesel Range Organics (DRO) | <15.0 | 1000 | 1050 | 105 | 1050 | 105 | 70-135 | 0 | 20 | mg/kg | 09.20.19 19:35 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 116 | | 125 | | 131 | | 70-135 | % | 09.20.19 19:35 |
| o-Terphenyl | 120 | | 126 | | 125 | | 70-135 | % | 09.20.19 19:35 |

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



Released to Imaging: 4/21/2026 9:41:19 AM

# QC Summary 637435

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3102246 — Matrix: Soil — Date Prep: 09.20.19
Parent Sample Id: 637427-006 — MS Sample Id: 637427-006 S — MSD Sample Id: 637427-006 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) | <15.0 | 999 | 1080 | 108 | 1080 | 108 | 70-135 | 0 | 20 | mg/kg | 09.20.19 20:38 | |
| Diesel Range Organics (DRO) | 89.8 | 999 | 1140 | 105 | 1130 | 104 | 70-135 | 1 | 20 | mg/kg | 09.20.19 20:38 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 128 | | 128 | | 70-135 | % | 09.20.19 20:38 |
| o-Terphenyl | 128 | | 126 | | 70-135 | % | 09.20.19 20:38 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3102203 — Matrix: Solid — Date Prep: 09.20.19
MB Sample Id: 7686580-1-BLK — LCS Sample Id: 7686580-1-BKS — LCSD Sample Id: 7686580-1-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 | 0.0962 | 96 | 0.0917 | 92 | 70-130 | 5 | 35 | mg/kg | 09.21.19 04:29 | |
| Toluene | <0.00200 | 0.100 | 0.0982 | 98 | 0.0938 | 94 | 70-130 | 5 | 35 | mg/kg | 09.21.19 04:29 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.109 | 109 | 0.103 | 103 | 70-130 | 6 | 35 | mg/kg | 09.21.19 04:29 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.220 | 110 | 0.206 | 103 | 70-130 | 7 | 35 | mg/kg | 09.21.19 04:29 | |
| o-Xylene | <0.00200 | 0.100 | 0.114 | 114 | 0.108 | 108 | 70-130 | 5 | 35 | mg/kg | 09.21.19 04:29 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 93 | | 96 | | 95 | | 70-130 | % | 09.21.19 04:29 |
| 4-Bromofluorobenzene | 105 | | 120 | | 115 | | 70-130 | % | 09.21.19 04:29 |

**Analytical Method:** BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3102203 — Matrix: Soil — Date Prep: 09.20.19
Parent Sample Id: 637427-001 — MS Sample Id: 637427-001 S — MSD Sample Id: 637427-001 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 | 0.0806 | 81 | 0.0858 | 86 | 70-130 | 6 | 35 | mg/kg | 09.21.19 05:10 | |
| Toluene | <0.00200 | 0.0998 | 0.0785 | 79 | 0.0822 | 83 | 70-130 | 5 | 35 | mg/kg | 09.21.19 05:10 | |
| Ethylbenzene | <0.00200 | 0.0998 | 0.0808 | 81 | 0.0834 | 84 | 70-130 | 3 | 35 | mg/kg | 09.21.19 05:10 | |
| m,p-Xylenes | <0.00399 | 0.200 | 0.158 | 79 | 0.162 | 81 | 70-130 | 3 | 35 | mg/kg | 09.21.19 05:10 | |
| o-Xylene | <0.00200 | 0.0998 | 0.0796 | 80 | 0.0819 | 82 | 70-130 | 3 | 35 | mg/kg | 09.21.19 05:10 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 102 | | 70-130 | % | 09.21.19 05:10 |
| 4-Bromofluorobenzene | 108 | | 110 | | 70-130 | % | 09.21.19 05:10 |

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

Released to Imaging: 4/21/2026 9:41:19 AM
Received by OCD: 4/14/2026 8:17:09 PM

# Chain of Custody

Work Order No: 637425

XENCO LABORATORIES

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

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | |
| City, State ZIP: | Midland, Tx 79705 | City, State ZIP: | |
| Phone: | (432) 236-3849 | Email: | dmoir@ltenv.com, cmann@ltenv.com |

**Work Order Comments**

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

| | | | |
|---|---|---|---|
| Project Name: | Golden 8 Fed Battery | Turn Around | |
| Project Number: | 12919219 | Routine | ✓ |
| P.O. Number: | Eddy County | Rush: | |
| Sampler's Name: | William Mather | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes No | Wet Ice: | Yes No |
| Temperature (°C): | 2.2 | Thermometer ID | T-NM-007 |
| Received Intact: | Yes No | | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | -0.2 |
| Sample Custody Seals | Yes No N/A | Total Containers: | 4 |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| SS01 | s | 9/17/2019 | 10:22 | 0.5 | 1 | x | x | x | Discrete |
| SS02 | s | 9/17/2019 | 10:23 | 0.5 | 1 | x | x | x | Discrete |
| SS03 | s | 9/17/2019 | 10:24 | 0.5 | 1 | x | x | x | Discrete |
| SS04 | s | 9/17/2019 | 10:25 | 0.5 | 1 | x | x | x | Discrete |

ANALYSIS REQUEST

Work Order Notes

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

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

*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 9/19/19 10:50 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

# Inter-Office Shipment





**IOS Number** **48408**

Date/Time: 09/19/19 14:07
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.: 776288782636

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

| Sample Id | Matrix | Client Sample Id | Sample Collection | Method | Method Name | Lab Due | HT Due | PM | Analytes | Sign |
|---|---|---|---|---|---|---|---|---|---|---|
| 637435-001 | S | SS01 | 09/17/19 10:22 | SW8015MOD_NM | TPH by SW8015 Mod | 09/25/19 | 10/01/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 637435-001 | S | SS01 | 09/17/19 10:22 | SW8021B | BTEX by EPA 8021B | 09/25/19 | 10/01/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637435-001 | S | SS01 | 09/17/19 10:22 | E300_CL | Chloride by EPA 300 | 09/25/19 | 03/15/20 | JKR | CL | |
| 637435-002 | S | SS02 | 09/17/19 10:23 | SW8021B | BTEX by EPA 8021B | 09/25/19 | 10/01/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637435-002 | S | SS02 | 09/17/19 10:23 | SW8015MOD_NM | TPH by SW8015 Mod | 09/25/19 | 10/01/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 637435-002 | S | SS02 | 09/17/19 10:23 | E300_CL | Chloride by EPA 300 | 09/25/19 | 03/15/20 | JKR | CL | |
| 637435-003 | S | SS03 | 09/17/19 10:24 | SW8021B | BTEX by EPA 8021B | 09/25/19 | 10/01/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637435-003 | S | SS03 | 09/17/19 10:24 | SW8015MOD_NM | TPH by SW8015 Mod | 09/25/19 | 10/01/19 | JKR | GRO-DRO PHCC10C28 PI | |
| 637435-003 | S | SS03 | 09/17/19 10:24 | E300_CL | Chloride by EPA 300 | 09/25/19 | 03/15/20 | JKR | CL | |
| 637435-004 | S | SS04 | 09/17/19 10:25 | SW8021B | BTEX by EPA 8021B | 09/25/19 | 10/01/19 | JKR | BR4FBZ BZ BZME EBZ X | |
| 637435-004 | S | SS04 | 09/17/19 10:25 | E300_CL | Chloride by EPA 300 | 09/25/19 | 03/15/20 | JKR | CL | |
| 637435-004 | S | SS04 | 09/17/19 10:25 | SW8015MOD_NM | TPH by SW8015 Mod | 09/25/19 | 10/01/19 | JKR | GRO-DRO PHCC10C28 PI | |

**Inter Office Shipment or Sample Comments:**

Relinquished By: Elizabeth McClellan
Date Relinquished: 09/19/2019

Received By: Brianna Teel
Date Received: 09/20/2019 11:34
Cooler Temperature: 0.4

# XENCO Laboratories

## Inter Office Report- Sample Receipt Checklist

**Sent To:** Midland

**IOS #:** 48408

**Acceptable Temperature Range: 0 - 6 degC**
**Air and Metal samples Acceptable Range: Ambient**
**Temperature Measuring device used : R8**

**Sent By:** Elizabeth McClellan **Date Sent:** 09/19/2019 02:07 PM

**Received By:** Brianna Teel **Date Received:** 09/20/2019 11:34 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: 09/20/2019

Brianna Teel

# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 09/19/2019 10:50:00 AM

**Work Order #:** 637435

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

**Temperature Measuring device used : T-NM-007**

| Sample Receipt Checklist | | Comments |
|---|---|---|
| #1 *Temperature of cooler(s)? | 2.2 | |
| #2 *Shipping container in good condition? | **Yes** | |
| #3 *Samples received on ice? | **Yes** | |
| #4 *Custody Seals intact on shipping container/ cooler? | **Yes** | |
| #5 Custody Seals intact on sample bottles? | **Yes** | |
| #6*Custody Seals Signed and dated? | **Yes** | |
| #7 *Chain of Custody present? | **Yes** | |
| #8 Any missing/extra samples? | **No** | |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** | |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** | |
| #11 Container label(s) legible and intact? | **Yes** | |
| #12 Samples in proper container/ bottle? | **Yes** | |
| #13 Samples properly preserved? | **Yes** | |
| #14 Sample container(s) intact? | **Yes** | |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** | |
| #16 All samples received within hold time? | **Yes** | |
| #17 Subcontract of sample(s)? | **Yes** | Subbed to 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: 09/19/2019

**Checklist reviewed by:** Jessica Kramer Date: 09/23/2019

Jessica Kramer

# Analytical Report 644985

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Fed Battery**

**012919219**

**05-DEC-19**

Collected By: Client




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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



Released to Imaging: 4/21/2026 9:41:19 AM

05-DEC-19

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

Reference: XENCO Report No(s): **644985**
**Golden 8 Fed Battery**
Project Address:

**Dan Moir**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644985. 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. 644985 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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



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# Sample Cross Reference 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| FS01 | S | 12-03-19 11:30 | 0.5 - 3 ft | 644985-001 |
| PH01 | S | 12-03-19 13:37 | 0.5 ft | 644985-002 |
| PH01A | S | 12-03-19 13:20 | 3 ft | 644985-003 |
| PH02 | S | 12-03-19 14:00 | 0.5 ft | 644985-004 |
| PH02A | S | 12-03-19 14:02 | 1 ft | 644985-005 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Fed Battery***

Project ID: *012919219*
Work Order Number(s): *644985*

Report Date: *05-DEC-19*
Date Received: *12/04/2019*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3109452 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3109453 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 644985-001.

# Certificate of Analysis Summary 644985

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Fed Battery

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:**

**Date Received in Lab:** Wed Dec-04-19 08:45 am
**Report Date:** 05-DEC-19
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 644985-001 | | 644985-002 | | 644985-003 | | 644985-004 | | 644985-005 | |
| | ***Field Id:*** | FS01 | | PH01 | | PH01A | | PH02 | | PH02A | |
| | ***Depth:*** | 0.5-3 ft | | 0.5- ft | | 3- ft | | 0.5- ft | | 1- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | Dec-03-19 11:30 | | Dec-03-19 13:37 | | Dec-03-19 13:20 | | Dec-03-19 14:00 | | Dec-03-19 14:02 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Dec-04-19 10:00 | | Dec-04-19 10:00 | | Dec-04-19 10:00 | | Dec-04-19 10:00 | | Dec-04-19 10:00 | |
| | ***Analyzed:*** | Dec-04-19 13:38 | | Dec-04-19 13:57 | | Dec-04-19 14:41 | | Dec-04-19 15:10 | | Dec-04-19 15:29 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Toluene | | <0.00201 | 0.00201 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| Ethylbenzene | | <0.00201 | 0.00201 | 0.00843 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | <0.00200 | 0.00200 |
| m,p-Xylenes | | <0.00402 | 0.00402 | 0.0127 | 0.00395 | <0.00395 | 0.00395 | <0.00397 | 0.00397 | <0.00399 | 0.00399 |
| o-Xylene | | <0.00201 | 0.00201 | 0.00798 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | 0.00500 | 0.00200 |
| Total Xylenes | | <0.00201 | 0.00201 | 0.0207 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | 0.00500 | 0.00200 |
| Total BTEX | | <0.00201 | 0.00201 | 0.0291 | 0.00198 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | 0.00500 | 0.00200 |
| **Chloride by EPA 300** | ***Extracted:*** | Dec-04-19 13:00 | | Dec-04-19 13:00 | | Dec-04-19 13:00 | | Dec-04-19 13:00 | | Dec-04-19 13:00 | |
| | ***Analyzed:*** | Dec-04-19 17:26 | | Dec-04-19 17:32 | | Dec-04-19 17:38 | | Dec-04-19 17:44 | | Dec-04-19 17:51 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 567 | 9.94 | 1180 | 49.8 | 1880 | 49.9 | 1310 | 49.6 | 942 | 49.9 |
| **TPH by SW8015 Mod** | ***Extracted:*** | Dec-04-19 13:30 | | Dec-04-19 13:30 | | Dec-04-19 13:30 | | Dec-04-19 13:30 | | Dec-04-19 13:30 | |
| | ***Analyzed:*** | Dec-04-19 16:56 | | Dec-04-19 16:56 | | Dec-04-19 17:16 | | Dec-04-19 17:36 | | Dec-04-19 17:36 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.2 | 50.2 | <49.8 | 49.8 | <50.3 | 50.3 | <50.0 | 50.0 | <50.3 | 50.3 |
| Diesel Range Organics (DRO) | | 155 | 50.2 | 1700 | 49.8 | <50.3 | 50.3 | 1260 | 50.0 | 662 | 50.3 |
| Motor Oil Range Hydrocarbons (MRO) | | <50.2 | 50.2 | 232 | 49.8 | <50.3 | 50.3 | 243 | 50.0 | 183 | 50.3 |
| Total GRO-DRO | | 155 | 50.2 | 1700 | 49.8 | <50.3 | 50.3 | 1260 | 50.0 | 662 | 50.3 |
| Total TPH | | 155 | 50.2 | 1930 | 49.8 | <50.3 | 50.3 | 1500 | 50.0 | 845 | 50.3 |

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

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

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS01** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-001 | Date Collected: | 12.03.19 11.30 | Sample Depth: | 0.5 - 3 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3109466 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **567** | 9.94 | mg/kg | 12.04.19 17.26 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 13.30 | Basis: | Wet Weight |
| Seq Number: | 3109453 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.04.19 16.56 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **155** | 50.2 | mg/kg | 12.04.19 16.56 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.04.19 16.56 | U | 1 |
| **Total GRO-DRO** | PHC628 | **155** | 50.2 | mg/kg | 12.04.19 16.56 | | 1 |
| **Total TPH** | PHC635 | **155** | 50.2 | mg/kg | 12.04.19 16.56 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 125 | % | 70-135 | 12.04.19 16.56 | |
| o-Terphenyl | 84-15-1 | 136 | % | 70-135 | 12.04.19 16.56 | ** |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS01** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-001 | Date Collected: | 12.03.19 11.30 | Sample Depth: | 0.5 - 3 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3109452 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.04.19 13.38 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.04.19 13.38 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.04.19 13.38 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.04.19 13.38 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH01** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-002 | Date Collected: | 12.03.19 13.37 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3109466 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1180** | 49.8 | mg/kg | 12.04.19 17.32 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 13.30 | Basis: | Wet Weight |
| Seq Number: | 3109453 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.04.19 16.56 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1700** | 49.8 | mg/kg | 12.04.19 16.56 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **232** | 49.8 | mg/kg | 12.04.19 16.56 | | 1 |
| **Total GRO-DRO** | PHC628 | **1700** | 49.8 | mg/kg | 12.04.19 16.56 | | 1 |
| **Total TPH** | PHC635 | **1930** | 49.8 | mg/kg | 12.04.19 16.56 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 12.04.19 16.56 | |
| o-Terphenyl | 84-15-1 | 122 | % | 70-135 | 12.04.19 16.56 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH01** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-002 | Date Collected: | 12.03.19 13.37 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3109452 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.04.19 13.57 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.04.19 13.57 | U | 1 |
| **Ethylbenzene** | 100-41-4 | **0.00843** | 0.00198 | mg/kg | 12.04.19 13.57 | | 1 |
| **m,p-Xylenes** | 179601-23-1 | **0.0127** | 0.00395 | mg/kg | 12.04.19 13.57 | | 1 |
| **o-Xylene** | 95-47-6 | **0.00798** | 0.00198 | mg/kg | 12.04.19 13.57 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0207** | 0.00198 | mg/kg | 12.04.19 13.57 | | 1 |
| **Total BTEX** | | **0.0291** | 0.00198 | mg/kg | 12.04.19 13.57 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 12.04.19 13.57 | |
| 1,4-Difluorobenzene | 540-36-3 | 98 | % | 70-130 | 12.04.19 13.57 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH01A** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-003 | Date Collected: | 12.03.19 13.20 | Sample Depth: | 3 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3109466 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1880** | 49.9 | mg/kg | 12.04.19 17.38 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 13.30 | Basis: | Wet Weight |
| Seq Number: | 3109453 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.04.19 17.16 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 12.04.19 17.16 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 12.04.19 17.16 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 12.04.19 17.16 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 12.04.19 17.16 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-135 | 12.04.19 17.16 | |
| o-Terphenyl | 84-15-1 | 121 | % | 70-135 | 12.04.19 17.16 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH01A** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-003 | Date Collected: | 12.03.19 13.20 | Sample Depth: | 3 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3109452 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00395 | 0.00395 | mg/kg | 12.04.19 14.41 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.04.19 14.41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 12.04.19 14.41 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 12.04.19 14.41 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH02** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-004 | Date Collected: | 12.03.19 14.00 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3109466 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1310** | 49.6 | mg/kg | 12.04.19 17.44 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 13.30 | Basis: | Wet Weight |
| Seq Number: | 3109453 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.04.19 17.36 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1260** | 50.0 | mg/kg | 12.04.19 17.36 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **243** | 50.0 | mg/kg | 12.04.19 17.36 | | 1 |
| **Total GRO-DRO** | PHC628 | **1260** | 50.0 | mg/kg | 12.04.19 17.36 | | 1 |
| **Total TPH** | PHC635 | **1500** | 50.0 | mg/kg | 12.04.19 17.36 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 118 | % | 70-135 | 12.04.19 17.36 | |
| o-Terphenyl | 84-15-1 | 127 | % | 70-135 | 12.04.19 17.36 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH02** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-004 | Date Collected: | 12.03.19 14.00 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3109452 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 12.04.19 15.10 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.04.19 15.10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 12.04.19 15.10 | |
| 4-Bromofluorobenzene | 460-00-4 | 108 | % | 70-130 | 12.04.19 15.10 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH02A** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-005 | Date Collected: | 12.03.19 14.02 | Sample Depth: | 1 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 13.00 | Basis: | Wet Weight |
| Seq Number: | 3109466 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **942** | 49.9 | mg/kg | 12.04.19 17.51 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 13.30 | Basis: | Wet Weight |
| Seq Number: | 3109453 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.04.19 17.36 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **662** | 50.3 | mg/kg | 12.04.19 17.36 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **183** | 50.3 | mg/kg | 12.04.19 17.36 | | 1 |
| **Total GRO-DRO** | PHC628 | **662** | 50.3 | mg/kg | 12.04.19 17.36 | | 1 |
| **Total TPH** | PHC635 | **845** | 50.3 | mg/kg | 12.04.19 17.36 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 12.04.19 17.36 | |
| o-Terphenyl | 84-15-1 | 119 | % | 70-135 | 12.04.19 17.36 | |

# Certificate of Analytical Results 644985

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH02A** | Matrix: | Soil | Date Received: | 12.04.19 08.45 |
| Lab Sample Id: | 644985-005 | Date Collected: | 12.03.19 14.02 | Sample Depth: | 1 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 10.00 | Basis: | Wet Weight |
| Seq Number: | 3109452 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.04.19 15.29 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.04.19 15.29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.04.19 15.29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.04.19 15.29 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.00500** | 0.00200 | mg/kg | 12.04.19 15.29 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.00500** | 0.00200 | mg/kg | 12.04.19 15.29 | | 1 |
| **Total BTEX** | | **0.00500** | 0.00200 | mg/kg | 12.04.19 15.29 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.04.19 15.29 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 12.04.19 15.29 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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



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# QC Summary 644985

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109466 — Matrix: Solid — Date Prep: 12.04.19
MB Sample Id: 7691688-1-BLK — LCS Sample Id: 7691688-1-BKS — LCSD Sample Id: 7691688-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 250 | 262 | 105 | 266 | 106 | 90-110 | 2 | 20 | mg/kg | 12.04.19 15:56 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109466 — Matrix: Soil — Date Prep: 12.04.19
Parent Sample Id: 644979-001 — MS Sample Id: 644979-001 S — MSD Sample Id: 644979-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.5 | 202 | 219 | 103 | 217 | 103 | 90-110 | 1 | 20 | mg/kg | 12.04.19 16:34 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109466 — Matrix: Soil — Date Prep: 12.04.19
Parent Sample Id: 644985-005 — MS Sample Id: 644985-005 S — MSD Sample Id: 644985-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 942 | 198 | 1140 | 100 | 1160 | 109 | 90-110 | 2 | 20 | mg/kg | 12.04.19 17:57 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3109453 — Matrix: Solid — Date Prep: 12.04.19
MB Sample Id: 7691711-1-BLK — LCS Sample Id: 7691711-1-BKS — LCSD Sample Id: 7691711-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 914 | 91 | 940 | 94 | 70-135 | 3 | 35 | mg/kg | 12.04.19 15:37 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1040 | 104 | 1140 | 114 | 70-135 | 9 | 35 | mg/kg | 12.04.19 15:37 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 97 | | 124 | | 130 | | 70-135 | % | 12.04.19 15:37 |
| o-Terphenyl | 108 | | 123 | | 128 | | 70-135 | % | 12.04.19 15:37 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3109453 — Matrix: Solid — Date Prep: 12.04.19
MB Sample Id: 7691711-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.04.19 15:17 | |

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

# QC Summary 644985

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3109453 | Matrix: Soil | Date Prep: 12.04.19
Parent Sample Id: 644983-001 | MS Sample Id: 644983-001 S | MSD Sample Id: 644983-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 902 | 90 | 916 | 91 | 70-135 | 2 | 35 | mg/kg | 12.04.19 15:57 | |
| Diesel Range Organics (DRO) | 62.4 | 1000 | 1090 | 103 | 1080 | 101 | 70-135 | 1 | 35 | mg/kg | 12.04.19 15:57 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 128 | | 126 | | 70-135 | % | 12.04.19 15:57 |
| o-Terphenyl | 132 | | 126 | | 70-135 | % | 12.04.19 15:57 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109452 | Matrix: Solid | Date Prep: 12.04.19
MB Sample Id: 7691694-1-BLK | LCS Sample Id: 7691694-1-BKS | LCSD Sample Id: 7691694-1-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 | 0.0892 | 89 | 0.0958 | 96 | 70-130 | 7 | 35 | mg/kg | 12.04.19 10:39 | |
| Toluene | <0.00200 | 0.100 | 0.0913 | 91 | 0.0974 | 97 | 70-130 | 6 | 35 | mg/kg | 12.04.19 10:39 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0913 | 91 | 0.0970 | 97 | 71-129 | 6 | 35 | mg/kg | 12.04.19 10:39 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.205 | 103 | 70-135 | 6 | 35 | mg/kg | 12.04.19 10:39 | |
| o-Xylene | <0.00200 | 0.100 | 0.0970 | 97 | 0.103 | 103 | 71-133 | 6 | 35 | mg/kg | 12.04.19 10:39 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 97 | | 102 | | 102 | | 70-130 | % | 12.04.19 10:39 |
| 4-Bromofluorobenzene | 109 | | 115 | | 115 | | 70-130 | % | 12.04.19 10:39 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109452 | Matrix: Soil | Date Prep: 12.04.19
Parent Sample Id: 644979-001 | MS Sample Id: 644979-001 S | MSD Sample Id: 644979-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | 0.100 | 0.0903 | 90 | 0.0737 | 74 | 70-130 | 20 | 35 | mg/kg | 12.04.19 11:18 | |
| Toluene | <0.00200 | 0.100 | 0.0910 | 91 | 0.0740 | 74 | 70-130 | 21 | 35 | mg/kg | 12.04.19 11:18 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0904 | 90 | 0.0720 | 72 | 71-129 | 23 | 35 | mg/kg | 12.04.19 11:18 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.193 | 97 | 0.154 | 77 | 70-135 | 22 | 35 | mg/kg | 12.04.19 11:18 | |
| o-Xylene | <0.00200 | 0.100 | 0.0963 | 96 | 0.0760 | 76 | 71-133 | 24 | 35 | mg/kg | 12.04.19 11:18 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 103 | | 105 | | 70-130 | % | 12.04.19 11:18 |
| 4-Bromofluorobenzene | 119 | | 118 | | 70-130 | % | 12.04.19 11:18 |

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

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

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

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

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# Chain of Custody

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 644705

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyla Littrell |
| Company Name: | LT Environmental, Inc., Permian Office | Company Name: | XTO Energy, Inc. |
| Address: | 3300 North A Street | Address: | 3104 E Greene St |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | fsmith@ltenv.com, dmoir@ltenv.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Golden & Fed Battery | Turn Around | |
| Project Number: | 012919219 | Routine: ☐ | |
| PO #: | 2RP-5672 | Rush: 24 hrs | |
| Sampler's Name: | Fatima Smith | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | (Yes) No |
| Temperature (°C): | 1.2 | Thermometer ID | NH007 |
| Received Intact: | (Yes) No | | |
| Cooler Custody Seals: | Yes (No) N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes (No) N/A | Total Containers: | 5 |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| FS01 | S | 12/3/19 | 1130 | 0.5-3' | 1 | X | X | X |
| PH01 | S | 12/3/19 | 1317 | 0.5' | 1 | X | X | X |
| PH01A | S | 12/3/19 | 1320 | 3' | 1 | X | X | X |
| PH02 | S | 12/3/19 | 1400 | 0.5' | 1 | X | X | X |
| PH02A | S | 12/3/19 | 1402 | 1' | 1 | X | X | X |

**Work Order Notes**

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

**Sample Comments**

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

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

| | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|
| 1 | Fatima | Whitney | 12-4-2019 | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

Revised Date 051410 Rev. 2010.1

Received by OCD: 4/14/2026 8:17:09 PM
Released to Imaging: 4/21/2026 9:41:19 AM
Final 1.000
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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 12/04/2019 08:45:00 AM

**Work Order #:** 644985

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

**Temperature Measuring device used : TNM 07**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 1.2 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **No** |
| #4 *Custody Seals intact on shipping container/ cooler? | **No** |
| #5 Custody Seals intact on sample bottles? | **No** |
| #6*Custody Seals Signed and dated? | **Yes** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **Yes** |
| #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** |
| #18 Water VOC samples have zero headspace? | **N/A** |

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Martha Castro Date: 12/04/2019

**Checklist reviewed by:** Jessica Kramer Date: 12/05/2019

Jessica Kramer

# Analytical Report 645129

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Fed Battery**

**012919219**

**06-DEC-19**

Collected By: Client




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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



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06-DEC-19

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

Reference: XENCO Report No(s): **645129**
**Golden 8 Fed Battery**
Project Address:

**Dan Moir**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645129. 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. 645129 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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Released to Imaging: 4/21/2026 9:41:19 AM

# Sample Cross Reference 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SW01 | S | 12-04-19 08:35 | 0 - 3 ft | 645129-001 |
| SW02 | S | 12-04-19 10:15 | 0 - 3 ft | 645129-002 |
| BH01 | S | 12-04-19 10:34 | 0.5 ft | 645129-003 |
| BH01A | S | 12-04-19 10:39 | 2 ft | 645129-004 |
| BH02 | S | 12-04-19 12:09 | 0.5 ft | 645129-005 |
| BH02A | S | 12-04-19 12:11 | 1 ft | 645129-006 |
| FS02 | S | 12-04-19 12:27 | 3.5 ft | 645129-007 |
| SW03 | S | 12-04-19 12:34 | 0 - 3.5 ft | 645129-008 |
| PH03 | S | 12-04-19 13:21 | 2 ft | 645129-009 |
| PH03A | S | 12-04-19 13:22 | 3 ft | 645129-010 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Fed Battery***

Project ID: *012919219*
Work Order Number(s): *645129*

Report Date: *06-DEC-19*
Date Received: *12/04/2019*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3109459 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3109484 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 645106-003 S.

Batch: LBA-3109529 BTEX by EPA 8021B
Ethylbenzene, Toluene, m,p-Xylenes , o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 645129-001, -007, -008, -009, -010
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 645129-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
Benzene, Ethylbenzene, Toluene, m,p-Xylenes , o-Xylene 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: 645129-001, -007, -008, -009, -010.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

# Certificate of Analysis Summary 645129

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Fed Battery

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:**

**Date Received in Lab:** Wed Dec-04-19 04:42 pm
**Report Date:** 06-DEC-19
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 645129-001 | | 645129-002 | | 645129-003 | | 645129-004 | | 645129-005 | | 645129-006 | |
| | ***Field Id:*** | SW01 | | SW02 | | BH01 | | BH01A | | BH02 | | BH02A | |
| | ***Depth:*** | 0-3 ft | | 0-3 ft | | 0.5- ft | | 2- ft | | 0.5- ft | | 1- ft | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | ***Sampled:*** | Dec-04-19 08:35 | | Dec-04-19 10:15 | | Dec-04-19 10:34 | | Dec-04-19 10:39 | | Dec-04-19 12:09 | | Dec-04-19 12:11 | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Dec-04-19 22:00 | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | | ** ** ** ** | |
| | ***Analyzed:*** | Dec-05-19 08:42 | | Dec-05-19 04:20 | | Dec-05-19 04:40 | | Dec-05-19 04:59 | | Dec-05-19 05:18 | | Dec-05-19 05:37 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Toluene | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Ethylbenzene | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| m,p-Xylenes | | <0.00399 | 0.00399 | <0.00406 | 0.00406 | <0.00401 | 0.00401 | <0.00402 | 0.00402 | <0.00403 | 0.00403 | <0.00403 | 0.00403 |
| o-Xylene | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total Xylenes | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| Total BTEX | | <0.00200 | 0.00200 | <0.00203 | 0.00203 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00202 | 0.00202 | <0.00202 | 0.00202 |
| **Chloride by EPA 300** | ***Extracted:*** | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | |
| | ***Analyzed:*** | Dec-05-19 10:11 | | Dec-05-19 10:17 | | Dec-05-19 10:34 | | Dec-05-19 11:23 | | Dec-05-19 11:29 | | Dec-05-19 11:35 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 1090 | 49.7 | 1290 | 50.4 | 310 | 10.0 | 1830 | 100 | 600 | 9.98 | 729 | 49.6 |
| **TPH by SW8015 Mod** | ***Extracted:*** | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | |
| | ***Analyzed:*** | Dec-05-19 06:44 | | Dec-05-19 06:44 | | Dec-05-19 07:23 | | Dec-05-19 07:23 | | Dec-05-19 07:43 | | Dec-05-19 08:03 | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons (GRO) | | <50.0 | 50.0 | <50.2 | 50.2 | <50.0 | 50.0 | <49.9 | 49.9 | <50.3 | 50.3 | <50.2 | 50.2 |
| Diesel Range Organics (DRO) | | 686 | 50.0 | 95.5 | 50.2 | 581 | 50.0 | <49.9 | 49.9 | <50.3 | 50.3 | 132 | 50.2 |
| Motor Oil Range Hydrocarbons (MRO) | | 88.6 | 50.0 | <50.2 | 50.2 | 115 | 50.0 | <49.9 | 49.9 | <50.3 | 50.3 | <50.2 | 50.2 |
| Total GRO-DRO | | 686 | 50.0 | 95.5 | 50.2 | 581 | 50.0 | <49.9 | 49.9 | <50.3 | 50.3 | 132 | 50.2 |
| Total TPH | | 775 | 50.0 | 95.5 | 50.2 | 696 | 50.0 | <49.9 | 49.9 | <50.3 | 50.3 | 132 | 50.2 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analysis Summary 645129

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Fed Battery

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:**

**Date Received in Lab:** Wed Dec-04-19 04:42 pm
**Report Date:** 06-DEC-19
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 645129-007 | | 645129-008 | | 645129-009 | | 645129-010 | | | | | |
| | ***Field Id:*** | FS02 | | SW03 | | PH03 | | PH03A | | | | | |
| | ***Depth:*** | 3.5- ft | | 0-3.5 ft | | 2- ft | | 3- ft | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | Dec-04-19 12:27 | | Dec-04-19 12:34 | | Dec-04-19 13:21 | | Dec-04-19 13:22 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Dec-04-19 22:00 | | Dec-04-19 22:00 | | Dec-04-19 22:00 | | Dec-04-19 22:00 | | | | | |
| | ***Analyzed:*** | Dec-05-19 09:39 | | Dec-05-19 09:58 | | Dec-05-19 09:04 | | Dec-05-19 09:20 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.00202 | 0.00202 | <0.00199 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00202 | 0.00202 | 0.00287 | 0.00199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00202 | 0.00202 | 0.287 | 0.199 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00404 | 0.00404 | 0.750 | 0.398 | <0.00402 | 0.00402 | <0.00401 | 0.00401 | | | | |
| o-Xylene | | <0.00202 | 0.00202 | <0.199 | 0.199 | 0.0134 | 0.00201 | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00202 | 0.00202 | 0.750 | 0.199 | 0.0134 | 0.00201 | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00202 | 0.00202 | 1.04 | 0.00199 | 0.0134 | 0.00201 | <0.00200 | 0.00200 | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | | Dec-04-19 20:58 | | | | | |
| | ***Analyzed:*** | Dec-05-19 11:40 | | Dec-05-19 11:47 | | Dec-05-19 11:52 | | Dec-05-19 11:58 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 969 | 50.4 | 707 | 49.9 | 3020 | 99.4 | 1560 | 50.0 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | | Dec-04-19 17:00 | | | | | |
| | ***Analyzed:*** | Dec-05-19 08:23 | | Dec-05-19 08:43 | | Dec-05-19 08:43 | | Dec-05-19 09:02 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | 281 | 50.1 | <50.3 | 50.3 | <50.2 | 50.2 | | | | |
| Diesel Range Organics (DRO) | | 155 | 49.9 | 1580 | 50.1 | <50.3 | 50.3 | <50.2 | 50.2 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <49.9 | 49.9 | 151 | 50.1 | <50.3 | 50.3 | <50.2 | 50.2 | | | | |
| Total GRO-DRO | | 155 | 49.9 | 1860 | 50.1 | <50.3 | 50.3 | <50.2 | 50.2 | | | | |
| Total TPH | | 155 | 49.9 | 2010 | 50.1 | <50.3 | 50.3 | <50.2 | 50.2 | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
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Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW01** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-001 | Date Collected: | 12.04.19 08.35 | Sample Depth: | 0 - 3 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1090** | 49.7 | mg/kg | 12.05.19 10.11 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.05.19 06.44 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **686** | 50.0 | mg/kg | 12.05.19 06.44 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **88.6** | 50.0 | mg/kg | 12.05.19 06.44 | | 1 |
| **Total GRO-DRO** | PHC628 | **686** | 50.0 | mg/kg | 12.05.19 06.44 | | 1 |
| **Total TPH** | PHC635 | **775** | 50.0 | mg/kg | 12.05.19 06.44 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-135 | 12.05.19 06.44 | |
| o-Terphenyl | 84-15-1 | 117 | % | 70-135 | 12.05.19 06.44 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW01** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-001 | Date Collected: | 12.04.19 08.35 | Sample Depth: | 0 - 3 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.05.19 08.42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.05.19 08.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 92 | % | 70-130 | 12.05.19 08.42 | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 12.05.19 08.42 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-002 | Date Collected: | 12.04.19 10.15 | Sample Depth: | 0 - 3 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1290** | 50.4 | mg/kg | 12.05.19 10.17 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.05.19 06.44 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **95.5** | 50.2 | mg/kg | 12.05.19 06.44 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.05.19 06.44 | U | 1 |
| **Total GRO-DRO** | PHC628 | **95.5** | 50.2 | mg/kg | 12.05.19 06.44 | | 1 |
| **Total TPH** | PHC635 | **95.5** | 50.2 | mg/kg | 12.05.19 06.44 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 12.05.19 06.44 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-135 | 12.05.19 06.44 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-002 | Date Collected: | 12.04.19 10.15 | Sample Depth: | 0 - 3 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 16.32 | Basis: | Wet Weight |
| Seq Number: | 3109459 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |
| Toluene | 108-88-3 | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00406 | 0.00406 | mg/kg | 12.05.19 04.20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |
| Total BTEX | | <0.00203 | 0.00203 | mg/kg | 12.05.19 04.20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 12.05.19 04.20 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 12.05.19 04.20 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-003 | Date Collected: | 12.04.19 10.34 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **310** | 10.0 | mg/kg | 12.05.19 10.34 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 12.05.19 07.23 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **581** | 50.0 | mg/kg | 12.05.19 07.23 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **115** | 50.0 | mg/kg | 12.05.19 07.23 | | 1 |
| **Total GRO-DRO** | PHC628 | **581** | 50.0 | mg/kg | 12.05.19 07.23 | | 1 |
| **Total TPH** | PHC635 | **696** | 50.0 | mg/kg | 12.05.19 07.23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 117 | % | 70-135 | 12.05.19 07.23 | |
| o-Terphenyl | 84-15-1 | 125 | % | 70-135 | 12.05.19 07.23 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-003 | Date Collected: | 12.04.19 10.34 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 16.32 | Basis: | Wet Weight |
| Seq Number: | 3109459 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 12.05.19 04.40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.05.19 04.40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 12.05.19 04.40 | |
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 12.05.19 04.40 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-004 | Date Collected: | 12.04.19 10.39 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1830** | 100 | mg/kg | 12.05.19 11.23 | | 10 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.05.19 07.23 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 12.05.19 07.23 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.05.19 07.23 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 12.05.19 07.23 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 12.05.19 07.23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 12.05.19 07.23 | |
| o-Terphenyl | 84-15-1 | 123 | % | 70-135 | 12.05.19 07.23 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH01A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-004 | Date Collected: | 12.04.19 10.39 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 16.32 | Basis: | Wet Weight |
| Seq Number: | 3109459 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.05.19 04.59 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 12.05.19 04.59 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 12.05.19 04.59 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 12.05.19 04.59 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-005 | Date Collected: | 12.04.19 12.09 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **600** | 9.98 | mg/kg | 12.05.19 11.29 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.05.19 07.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 12.05.19 07.43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 12.05.19 07.43 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 12.05.19 07.43 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 12.05.19 07.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 12.05.19 07.43 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-135 | 12.05.19 07.43 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-005 | Date Collected: | 12.04.19 12.09 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 16.32 | Basis: | Wet Weight |
| Seq Number: | 3109459 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 12.05.19 05.18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.05.19 05.18 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 12.05.19 05.18 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-006 | Date Collected: | 12.04.19 12.11 | Sample Depth: | 1 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **729** | 49.6 | mg/kg | 12.05.19 11.35 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.05.19 08.03 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **132** | 50.2 | mg/kg | 12.05.19 08.03 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.05.19 08.03 | U | 1 |
| **Total GRO-DRO** | PHC628 | **132** | 50.2 | mg/kg | 12.05.19 08.03 | | 1 |
| **Total TPH** | PHC635 | **132** | 50.2 | mg/kg | 12.05.19 08.03 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 115 | % | 70-135 | 12.05.19 08.03 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-135 | 12.05.19 08.03 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH02A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-006 | Date Collected: | 12.04.19 12.11 | Sample Depth: | 1 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 16.32 | Basis: | Wet Weight |
| Seq Number: | 3109459 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00403 | 0.00403 | mg/kg | 12.05.19 05.37 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.05.19 05.37 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 12.05.19 05.37 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.05.19 05.37 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-007 | Date Collected: | 12.04.19 12.27 | Sample Depth: | 3.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **969** | 50.4 | mg/kg | 12.05.19 11.40 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.05.19 08.23 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **155** | 49.9 | mg/kg | 12.05.19 08.23 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.05.19 08.23 | U | 1 |
| **Total GRO-DRO** | PHC628 | **155** | 49.9 | mg/kg | 12.05.19 08.23 | | 1 |
| **Total TPH** | PHC635 | **155** | 49.9 | mg/kg | 12.05.19 08.23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 108 | % | 70-135 | 12.05.19 08.23 | |
| o-Terphenyl | 84-15-1 | 121 | % | 70-135 | 12.05.19 08.23 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS02** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-007 | Date Collected: | 12.04.19 12.27 | Sample Depth: | 3.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00404 | 0.00404 | mg/kg | 12.05.19 09.39 | U | 1 |
| o-Xylene | 95-47-6 | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |
| Total BTEX | | <0.00202 | 0.00202 | mg/kg | 12.05.19 09.39 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 12.05.19 09.39 | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 12.05.19 09.39 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-008 | Date Collected: | 12.04.19 12.34 | Sample Depth: | 0 - 3.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **707** | 49.9 | mg/kg | 12.05.19 11.47 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **281** | 50.1 | mg/kg | 12.05.19 08.43 | | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1580** | 50.1 | mg/kg | 12.05.19 08.43 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **151** | 50.1 | mg/kg | 12.05.19 08.43 | | 1 |
| **Total GRO-DRO** | PHC628 | **1860** | 50.1 | mg/kg | 12.05.19 08.43 | | 1 |
| **Total TPH** | PHC635 | **2010** | 50.1 | mg/kg | 12.05.19 08.43 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 119 | % | 70-135 | 12.05.19 08.43 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-135 | 12.05.19 08.43 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-008 | Date Collected: | 12.04.19 12.34 | Sample Depth: | 0 - 3.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 12.05.19 14.30 | U | 1 |
| **Toluene** | 108-88-3 | **0.00287** | 0.00199 | mg/kg | 12.05.19 14.30 | | 1 |
| **Ethylbenzene** | 100-41-4 | **0.287** | 0.199 | mg/kg | 12.05.19 09.58 | | 100 |
| **m,p-Xylenes** | 179601-23-1 | **0.750** | 0.398 | mg/kg | 12.05.19 09.58 | | 100 |
| o-Xylene | 95-47-6 | <0.199 | 0.199 | mg/kg | 12.05.19 09.58 | U | 100 |
| **Total Xylenes** | 1330-20-7 | **0.750** | 0.199 | mg/kg | 12.05.19 09.58 | | 100 |
| **Total BTEX** | | **1.04** | 0.00199 | mg/kg | 12.05.19 14.30 | | 100 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 12.05.19 09.58 | |
| 4-Bromofluorobenzene | 460-00-4 | 124 | % | 70-130 | 12.05.19 09.58 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-009 | Date Collected: | 12.04.19 13.21 | Sample Depth: | 2 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **3020** | 99.4 | mg/kg | 12.05.19 11.52 | | 10 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.05.19 08.43 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 12.05.19 08.43 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 12.05.19 08.43 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 12.05.19 08.43 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 12.05.19 08.43 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 12.05.19 08.43 | |
| o-Terphenyl | 84-15-1 | 118 | % | 70-135 | 12.05.19 08.43 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-009 | Date Collected: | 12.04.19 13.21 | Sample Depth: | 2 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 12.05.19 09.04 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 12.05.19 09.04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 12.05.19 09.04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 12.05.19 09.04 | U | 1 |
| **o-Xylene** | 95-47-6 | **0.0134** | 0.00201 | mg/kg | 12.05.19 09.04 | | 1 |
| **Total Xylenes** | 1330-20-7 | **0.0134** | 0.00201 | mg/kg | 12.05.19 09.04 | | 1 |
| **Total BTEX** | | **0.0134** | 0.00201 | mg/kg | 12.05.19 09.04 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 118 | % | 70-130 | 12.05.19 09.04 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 12.05.19 09.04 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH03A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-010 | Date Collected: | 12.04.19 13.22 | Sample Depth: | 3 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 20.58 | Basis: | Wet Weight |
| Seq Number: | 3109487 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **1560** | 50.0 | mg/kg | 12.05.19 11.58 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.05.19 09.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 12.05.19 09.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.05.19 09.02 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 12.05.19 09.02 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 12.05.19 09.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 12.05.19 09.02 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-135 | 12.05.19 09.02 | |

# Certificate of Analytical Results 645129

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **PH03A** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645129-010 | Date Collected: | 12.04.19 13.22 | Sample Depth: | 3 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 12.05.19 09.20 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.05.19 09.20 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 12.05.19 09.20 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 12.05.19 09.20 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

+ NELAC certification not offered for this compound.

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



Released to Imaging: 4/21/2026 9:41:19 AM

# QC Summary 645129



## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109487 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691691-1-BLK LCS Sample Id: 7691691-1-BKS LCSD Sample Id: 7691691-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 250 | 264 | 106 | 264 | 106 | 90-110 | 0 | 20 | mg/kg | 12.05.19 08:38 | |

**Analytical Method:** **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3109487 Matrix: Soil Date Prep: 12.04.19
Parent Sample Id: 645024-001 MS Sample Id: 645024-001 S MSD Sample Id: 645024-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 753 | 202 | 960 | 102 | 959 | 102 | 90-110 | 0 | 20 | mg/kg | 12.05.19 08:56 | |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109484 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691735-1-BLK LCS Sample Id: 7691735-1-BKS LCSD Sample Id: 7691735-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 933 | 93 | 964 | 96 | 70-135 | 3 | 35 | mg/kg | 12.05.19 05:25 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1070 | 107 | 1200 | 120 | 70-135 | 11 | 35 | mg/kg | 12.05.19 05:25 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 127 | | 133 | | 70-135 | % | 12.05.19 05:25 |
| o-Terphenyl | 112 | | 128 | | 132 | | 70-135 | % | 12.05.19 05:25 |

**Analytical Method:** **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3109484 Matrix: Solid Date Prep: 12.04.19
MB Sample Id: 7691735-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.05.19 05:05 | |

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

# QC Summary 645129

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3109484 | Matrix: Soil | Date Prep: 12.04.19
Parent Sample Id: 645106-003 | MS Sample Id: 645106-003 S | MSD Sample Id: 645106-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 987 | 99 | 929 | 93 | 70-135 | 6 | 35 | mg/kg | 12.05.19 05:45 | |
| Diesel Range Organics (DRO) | <50.2 | 1000 | 1220 | 122 | 1080 | 108 | 70-135 | 12 | 35 | mg/kg | 12.05.19 05:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 136 | ** | 130 | | 70-135 | % | 12.05.19 05:45 |
| o-Terphenyl | 147 | ** | 130 | | 70-135 | % | 12.05.19 05:45 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109459 | Matrix: Solid | Date Prep: 12.04.19
MB Sample Id: 7691696-1-BLK | LCS Sample Id: 7691696-1-BKS | LCSD Sample Id: 7691696-1-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 | 0.0906 | 91 | 0.0926 | 93 | 70-130 | 2 | 35 | mg/kg | 12.04.19 21:07 | |
| Toluene | <0.00200 | 0.100 | 0.0925 | 93 | 0.0955 | 96 | 70-130 | 3 | 35 | mg/kg | 12.04.19 21:07 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0917 | 92 | 0.0949 | 95 | 71-129 | 3 | 35 | mg/kg | 12.04.19 21:07 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.194 | 97 | 0.202 | 101 | 70-135 | 4 | 35 | mg/kg | 12.04.19 21:07 | |
| o-Xylene | <0.00200 | 0.100 | 0.0988 | 99 | 0.102 | 102 | 71-133 | 3 | 35 | mg/kg | 12.04.19 21:07 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 99 | | 102 | | 102 | | 70-130 | % | 12.04.19 21:07 |
| 4-Bromofluorobenzene | 108 | | 114 | | 115 | | 70-130 | % | 12.04.19 21:07 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109529 | Matrix: Solid | Date Prep: 12.04.19
MB Sample Id: 7691697-1-BLK | LCS Sample Id: 7691697-1-BKS | LCSD Sample Id: 7691697-1-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 | 0.0855 | 86 | 0.0900 | 90 | 70-130 | 5 | 35 | mg/kg | 12.05.19 07:00 | |
| Toluene | <0.00200 | 0.100 | 0.0887 | 89 | 0.0938 | 94 | 70-130 | 6 | 35 | mg/kg | 12.05.19 07:00 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0876 | 88 | 0.0930 | 93 | 71-129 | 6 | 35 | mg/kg | 12.05.19 07:00 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.186 | 93 | 0.199 | 100 | 70-135 | 7 | 35 | mg/kg | 12.05.19 07:00 | |
| o-Xylene | <0.00200 | 0.100 | 0.0960 | 96 | 0.102 | 102 | 71-133 | 6 | 35 | mg/kg | 12.05.19 07:00 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 99 | | 100 | | 70-130 | % | 12.05.19 07:00 |
| 4-Bromofluorobenzene | 108 | | 119 | | 116 | | 70-130 | % | 12.05.19 07:00 |

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

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

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

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

# QC Summary 645129

## LT Environmental, Inc.

Golden 8 Fed Battery

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

Seq Number: 3109459 Matrix: Soil Date Prep: 12.04.19

Parent Sample Id: 644999-001 MS Sample Id: 644999-001 S MSD Sample Id: 644999-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | 0.100 | 0.0815 | 82 | 0.0818 | 81 | 70-130 | 0 | 35 | mg/kg | 12.04.19 21:45 | |
| Toluene | <0.00201 | 0.100 | 0.0830 | 83 | 0.0830 | 82 | 70-130 | 0 | 35 | mg/kg | 12.04.19 21:45 | |
| Ethylbenzene | <0.00201 | 0.100 | 0.0817 | 82 | 0.0812 | 80 | 71-129 | 1 | 35 | mg/kg | 12.04.19 21:45 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.173 | 86 | 0.171 | 85 | 70-135 | 1 | 35 | mg/kg | 12.04.19 21:45 | |
| o-Xylene | <0.00201 | 0.100 | 0.0875 | 88 | 0.0871 | 86 | 71-133 | 0 | 35 | mg/kg | 12.04.19 21:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 103 | | 103 | | 70-130 | % | 12.04.19 21:45 |
| 4-Bromofluorobenzene | 120 | | 118 | | 70-130 | % | 12.04.19 21:45 |

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

Seq Number: 3109529 Matrix: Soil Date Prep: 12.04.19

Parent Sample Id: 645129-001 MS Sample Id: 645129-001 S MSD Sample Id: 645129-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.0662 | 67 | 0.0527 | 53 | 70-130 | 23 | 35 | mg/kg | 12.05.19 07:38 | X |
| Toluene | <0.00199 | 0.0994 | 0.0543 | 55 | 0.0352 | 35 | 70-130 | 43 | 35 | mg/kg | 12.05.19 07:38 | XF |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0380 | 38 | 0.0214 | 21 | 71-129 | 56 | 35 | mg/kg | 12.05.19 07:38 | XF |
| m,p-Xylenes | <0.00398 | 0.199 | 0.0773 | 39 | 0.0412 | 21 | 70-135 | 61 | 35 | mg/kg | 12.05.19 07:38 | XF |
| o-Xylene | <0.00199 | 0.0994 | 0.0396 | 40 | 0.0234 | 23 | 71-133 | 51 | 35 | mg/kg | 12.05.19 07:38 | XF |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 101 | | 70-130 | % | 12.05.19 07:38 |
| 4-Bromofluorobenzene | 122 | | 123 | | 70-130 | % | 12.05.19 07:38 |

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

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 766-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 1045129

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian Office | Company Name: | XTO Energy, Inc. |
| Address: | 3300 North A Street | Address: | 3104 E Greene St |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | fsmith@ltenv.com, dmoir@ltenv.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level ☐ Level ☐ PST/UST ☐ TRRP ☐ Level ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Golden 8 Fed Battery | Turn Around | |
| Project Number: | 012919219 | Routine: ☐ | |
| PO #: | 2RP-5672 | Rush: 24 hrs +Emails | |
| Sampler's Name: | Fatima Smith | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | (Yes) No |
| Temperature (°C): | 9.0 | Thermometer ID: | T-NM-007 |
| Received Intact: | (Yes) No | | |
| Cooler Custody Seals: | Yes (No) N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes (No) N/A | Total Containers: | 10 |

ANALYSIS REQUEST

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| SW01 | S | 12/4/19 | 0835 | 0-3' | 1 | X | X | X |
| SW02 | | | 1015 | 0-3' | | | | |
| BH01 | | | 1034 | 0.5 | | | | |
| BH01A | | | 1039 | 2 | | | | |
| BH02 | | | 1209 | 0.5 | | | | |
| BH02A | | | 1211 | 1 | | | | |
| FS02 | | | 1227 | 3.5 | | | | |
| SW03 | | | 1243 | 0-3.5 | | | | |
| PH03 | | | 1321 | 2 | | | | |
| PH03A | ↓ | ↓ | 1322 | 3 | ↓ | ↓ | ↓ | ↓ |

**Work Order Notes**

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

**Sample Comments**

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

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 Fatima | | 12/4/19 16:42 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 05/15 Rev. 2015.1

Received by OCD: 4/14/2026 8:17:09 PM
Released to Imaging: 4/21/2026 9:41:19 AM
Final 1.000
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# Analytical Report 645131

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Fed Battery**

**012919219**

**06-APR-20**

Collected By: Client




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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



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06-APR-20

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

Reference: XENCO Report No(s): **645131**
**Golden 8 Fed Battery**
Project Address:

**Dan Moir**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645131. 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. 645131 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Manager

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

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



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# Sample Cross Reference 645131

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| BH03 | S | 12-04-19 12:55 | 0.5 ft | 645131-001 |
| BH03A | S | 12-04-19 13:01 | 1.5 ft | Not Analyzed |

# CASE NARRATIVE

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

***Project Name: Golden 8 Fed Battery***

Project ID: *012919219*
Work Order Number(s): *645131*

Report Date: *06-APR-20*
Date Received: *12/04/2019*

**Sample receipt non conformances and comments:**

V1.001 Revision (client email) Changed sample names. JK 04/06/20
SS01 --> BH03
SS01A --> BH03A

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

None

**Analytical non conformances and comments:**

Batch: LBA-3109484 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 645106-003 S.

Batch: LBA-3109512 Chloride by EPA 300
Lab Sample ID 645131-001 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: 645131-001, -002.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3109529 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

# Certificate of Analysis Summary 645131

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Fed Battery

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:**

**Date Received in Lab:** Wed Dec-04-19 04:42 pm
**Report Date:** 06-APR-20
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 645131-001 | | | | | | |
| | ***Field Id:*** | BH03 | | | | | | |
| | ***Depth:*** | 0.5- ft | | | | | | |
| | ***Matrix:*** | SOIL | | | | | | |
| | ***Sampled:*** | Dec-04-19 12:55 | | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Dec-04-19 22:00 | | | | | | |
| | ***Analyzed:*** | Dec-05-19 10:17 | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | | |
| Benzene | | 0.520 | 0.499 | | | | | |
| Toluene | | 6.30 | 0.998 | | | | | |
| Ethylbenzene | | 1.26 | 0.998 | | | | | |
| m,p-Xylenes | | 5.44 | 2.00 | | | | | |
| o-Xylene | | 2.10 | 0.998 | | | | | |
| Total Xylenes | | 7.54 | 0.998 | | | | | |
| Total BTEX | | 15.6 | 0.499 | | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | Dec-05-19 07:30 | | | | | | |
| | ***Analyzed:*** | Dec-05-19 12:39 | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | | |
| Chloride | | 171 | 10.0 | | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | Dec-04-19 17:00 | | | | | | |
| | ***Analyzed:*** | Dec-05-19 11:19 | | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | | 383 | 50.1 | | | | | |
| Diesel Range Organics (DRO) | | 2660 | 50.1 | | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 424 | 50.1 | | | | | |
| Total GRO-DRO | | 3040 | 50.1 | | | | | |
| Total TPH | | 3470 | 50.1 | | | | | |

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

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

Jessica Kramer
Project Manager

# Certificate of Analytical Results 645131

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645131-001 | Date Collected: | 12.04.19 12.55 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.05.19 07.30 | Basis: | Wet Weight |
| Seq Number: | 3109512 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **171** | 10.0 | mg/kg | 12.05.19 12.39 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 12.04.19 17.00 | Basis: | Wet Weight |
| Seq Number: | 3109484 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Gasoline Range Hydrocarbons (GRO)** | PHC610 | **383** | 50.1 | mg/kg | 12.05.19 11.19 | | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **2660** | 50.1 | mg/kg | 12.05.19 11.19 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **424** | 50.1 | mg/kg | 12.05.19 11.19 | | 1 |
| **Total GRO-DRO** | PHC628 | **3040** | 50.1 | mg/kg | 12.05.19 11.19 | | 1 |
| **Total TPH** | PHC635 | **3470** | 50.1 | mg/kg | 12.05.19 11.19 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 123 | % | 70-135 | 12.05.19 11.19 | |
| o-Terphenyl | 84-15-1 | 124 | % | 70-135 | 12.05.19 11.19 | |

# Certificate of Analytical Results 645131

## LT Environmental, Inc., Arvada, CO

Golden 8 Fed Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **BH03** | Matrix: | Soil | Date Received: | 12.04.19 16.42 |
| Lab Sample Id: | 645131-001 | Date Collected: | 12.04.19 12.55 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 12.04.19 22.00 | Basis: | Wet Weight |
| Seq Number: | 3109529 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Benzene** | 71-43-2 | **0.520** | 0.499 | mg/kg | 12.05.19 10.17 | | 500 |
| **Toluene** | 108-88-3 | **6.30** | 0.998 | mg/kg | 12.05.19 10.17 | | 500 |
| **Ethylbenzene** | 100-41-4 | **1.26** | 0.998 | mg/kg | 12.05.19 10.17 | | 500 |
| **m,p-Xylenes** | 179601-23-1 | **5.44** | 2.00 | mg/kg | 12.05.19 10.17 | | 500 |
| **o-Xylene** | 95-47-6 | **2.10** | 0.998 | mg/kg | 12.05.19 10.17 | | 500 |
| **Total Xylenes** | 1330-20-7 | **7.54** | 0.998 | mg/kg | 12.05.19 10.17 | | 500 |
| **Total BTEX** | | **15.6** | 0.499 | mg/kg | 12.05.19 10.17 | | 500 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 12.05.19 10.17 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 12.05.19 10.17 | |

# 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



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# QC Summary 645131

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109512 — Matrix: Solid — Date Prep: 12.05.19
MB Sample Id: 7691692-1-BLK — LCS Sample Id: 7691692-1-BKS — LCSD Sample Id: 7691692-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 250 | 263 | 105 | 266 | 106 | 90-110 | 1 | 20 | mg/kg | 12.05.19 12:28 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109512 — Matrix: Soil — Date Prep: 12.05.19
Parent Sample Id: 645018-006 — MS Sample Id: 645018-006 S — MSD Sample Id: 645018-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 295 | 200 | 487 | 96 | 487 | 96 | 90-110 | 0 | 20 | mg/kg | 12.05.19 15:18 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3109512 — Matrix: Soil — Date Prep: 12.05.19
Parent Sample Id: 645131-001 — MS Sample Id: 645131-001 S — MSD Sample Id: 645131-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 171 | 2000 | 1950 | 89 | 1930 | 88 | 90-110 | 1 | 20 | mg/kg | 12.05.19 12:45 | X |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3109484 — Matrix: Solid — Date Prep: 12.04.19
MB Sample Id: 7691735-1-BLK — LCS Sample Id: 7691735-1-BKS — LCSD Sample Id: 7691735-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 933 | 93 | 964 | 96 | 70-135 | 3 | 35 | mg/kg | 12.05.19 05:25 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1070 | 107 | 1200 | 120 | 70-135 | 11 | 35 | mg/kg | 12.05.19 05:25 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 102 | | 127 | | 133 | | 70-135 | % | 12.05.19 05:25 |
| o-Terphenyl | 112 | | 128 | | 132 | | 70-135 | % | 12.05.19 05:25 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3109484 — Matrix: Solid — Date Prep: 12.04.19
MB Sample Id: 7691735-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.05.19 05:05 | |

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

# QC Summary 645131

## LT Environmental, Inc.

Golden 8 Fed Battery

**Analytical Method:** TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3109484 | Matrix: Soil | Date Prep: 12.04.19
Parent Sample Id: 645106-003 | MS Sample Id: 645106-003 S | MSD Sample Id: 645106-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 987 | 99 | 929 | 93 | 70-135 | 6 | 35 | mg/kg | 12.05.19 05:45 | |
| Diesel Range Organics (DRO) | <50.2 | 1000 | 1220 | 122 | 1080 | 108 | 70-135 | 12 | 35 | mg/kg | 12.05.19 05:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 136 | ** | 130 | | 70-135 | % | 12.05.19 05:45 |
| o-Terphenyl | 147 | ** | 130 | | 70-135 | % | 12.05.19 05:45 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109529 | Matrix: Solid | Date Prep: 12.04.19
MB Sample Id: 7691697-1-BLK | LCS Sample Id: 7691697-1-BKS | LCSD Sample Id: 7691697-1-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 | 0.0855 | 86 | 0.0900 | 90 | 70-130 | 5 | 35 | mg/kg | 12.05.19 07:00 | |
| Toluene | <0.00200 | 0.100 | 0.0887 | 89 | 0.0938 | 94 | 70-130 | 6 | 35 | mg/kg | 12.05.19 07:00 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0876 | 88 | 0.0930 | 93 | 71-129 | 6 | 35 | mg/kg | 12.05.19 07:00 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.186 | 93 | 0.199 | 100 | 70-135 | 7 | 35 | mg/kg | 12.05.19 07:00 | |
| o-Xylene | <0.00200 | 0.100 | 0.0960 | 96 | 0.102 | 102 | 71-133 | 6 | 35 | mg/kg | 12.05.19 07:00 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 99 | | 100 | | 70-130 | % | 12.05.19 07:00 |
| 4-Bromofluorobenzene | 108 | | 119 | | 116 | | 70-130 | % | 12.05.19 07:00 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3109529 | Matrix: Soil | Date Prep: 12.04.19
Parent Sample Id: 645129-001 | MS Sample Id: 645129-001 S | MSD Sample Id: 645129-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.0662 | 67 | 0.0527 | 53 | 70-130 | 23 | 35 | mg/kg | 12.05.19 07:38 | X |
| Toluene | <0.00199 | 0.0994 | 0.0543 | 55 | 0.0352 | 35 | 70-130 | 43 | 35 | mg/kg | 12.05.19 07:38 | XF |
| Ethylbenzene | <0.00199 | 0.0994 | 0.0380 | 38 | 0.0214 | 21 | 71-129 | 56 | 35 | mg/kg | 12.05.19 07:38 | XF |
| m,p-Xylenes | <0.00398 | 0.199 | 0.0773 | 39 | 0.0412 | 21 | 70-135 | 61 | 35 | mg/kg | 12.05.19 07:38 | XF |
| o-Xylene | <0.00199 | 0.0994 | 0.0396 | 40 | 0.0234 | 23 | 71-133 | 51 | 35 | mg/kg | 12.05.19 07:38 | XF |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 102 | | 101 | | 70-130 | % | 12.05.19 07:38 |
| 4-Bromofluorobenzene | 122 | | 123 | | 70-130 | % | 12.05.19 07:38 |

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

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# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 558-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: 645131 645129 amd 1/4

Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian Office | Company Name: | XTO Energy, Inc. |
| Address: | 3300 North A Street | Address: | 3104 E Greene St |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | fsmith@ltenv.com, dmoir@ltenv.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfield ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other

| | | | |
|---|---|---|---|
| Project Name: | Golden 8 Fed Battery | Turn Around | |
| Project Number: | 012919219 | Routine: ☐ | |
| PO #: | 2RP-5672 | Rush: 24 hrs 45 hrs | |
| Sampler's Name: | Fatima Smith | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | Yes (No) |
| Temperature (°C) | 6.0 | Thermometer ID | T-Pet-007 |
| Received Intact: | (Yes) No | | |
| Cooler Custody Seals: | Yes (No) N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes (No) N/A | Total Containers: | 2 |

**ANALYSIS REQUEST**

**Work Order Notes**

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

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| SS01 | S | 12/4/19 | 1255 | 0.5 | 1 | X | X | X | |
| SS01A | S | 12/4/19 | 1301 | 1.5 | 1 | 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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 12/4/19 12:42 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 051418 Rev. 2018.1

Received by OCD: 4/14/2026 8:17:09 PM
Released to Imaging: 4/21/2026 9:41:19 AM
1.001
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# Analytical Report 651048

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Federal Battery**

**012919141**

**03-FEB-20**

Collected By: Client




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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



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03-FEB-20

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

Reference: XENCO Report No(s): **651048**
**Golden 8 Federal Battery**
Project Address:

**Dan Moir**:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651048. 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. 651048 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

**Jessica Kramer**
Project Assistant

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

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



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# Sample Cross Reference 651048

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| SW04 | S | 01-31-20 13:50 | 0 - 4 ft | 651048-001 |
| SW05 | S | 01-31-20 13:55 | 0 - 4 ft | 651048-002 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal Battery***

Project ID: *012919141*
Work Order Number(s): *651048*

Report Date: *03-FEB-20*
Date Received: *01/31/2020*

**Sample receipt non conformances and comments:**

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

None

**Analytical non conformances and comments:**

Batch: LBA-3115251 BTEX by EPA 8021B

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

# Certificate of Analysis Summary 651048

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal Battery

**Project Id:** 012919141
**Contact:** Dan Moir
**Project Location:**

**Date Received in Lab:** Fri Jan-31-20 04:03 pm
**Report Date:** 03-FEB-20
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 651048-001 | | 651048-002 | | | | | |
| | ***Field Id:*** | SW04 | | SW05 | | | | | |
| | ***Depth:*** | 0-4 ft | | 0-4 ft | | | | | |
| | ***Matrix:*** | SOIL | | SOIL | | | | | |
| | ***Sampled:*** | Jan-31-20 13:50 | | Jan-31-20 13:55 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | Jan-31-20 20:00 | | Jan-31-20 20:00 | | | | | |
| | ***Analyzed:*** | Feb-01-20 04:13 | | Feb-01-20 20:33 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Benzene | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| Toluene | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| Ethylbenzene | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| m,p-Xylenes | | <0.0400 | 0.0400 | <0.00402 | 0.00402 | | | | |
| o-Xylene | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| Total Xylenes | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| Total BTEX | | <0.0200 | 0.0200 | <0.00201 | 0.00201 | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | Jan-31-20 18:00 | | Jan-31-20 18:00 | | | | | |
| | ***Analyzed:*** | Jan-31-20 23:15 | | Jan-31-20 23:21 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Chloride | | 2050 | 50.3 | 395 | 9.90 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | Jan-31-20 17:00 | | Jan-31-20 17:00 | | | | | |
| | ***Analyzed:*** | Feb-01-20 00:23 | | Feb-03-20 12:22 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | <49.8 | 49.8 | | | | |
| Diesel Range Organics (DRO) | | 1400 | 49.9 | <49.8 | 49.8 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 159 | 49.9 | <49.8 | 49.8 | | | | |
| Total GRO-DRO | | 1400 | 49.9 | <49.8 | 49.8 | | | | |
| Total TPH | | 1560 | 49.9 | <49.8 | 49.8 | | | | |

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

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

Jessica Kramer
Project Assistant



Final 1.000

# Certificate of Analytical Results 651048

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW04** | Matrix: | Soil | Date Received: | 01.31.20 16.03 |
| Lab Sample Id: | 651048-001 | Date Collected: | 01.31.20 13.50 | Sample Depth: | 0 - 4 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 01.31.20 18.00 | Basis: | Wet Weight |
| Seq Number: | 3115294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **2050** | 50.3 | mg/kg | 01.31.20 23.15 | | 5 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 01.31.20 17.00 | Basis: | Wet Weight |
| Seq Number: | 3115292 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.01.20 00.23 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **1400** | 49.9 | mg/kg | 02.01.20 00.23 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **159** | 49.9 | mg/kg | 02.01.20 00.23 | | 1 |
| **Total GRO-DRO** | PHC628 | **1400** | 49.9 | mg/kg | 02.01.20 00.23 | | 1 |
| **Total TPH** | PHC635 | **1560** | 49.9 | mg/kg | 02.01.20 00.23 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 02.01.20 00.23 | |
| o-Terphenyl | 84-15-1 | 97 | % | 70-135 | 02.01.20 00.23 | |

# Certificate of Analytical Results 651048

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW04** | Matrix: | Soil | Date Received: | 01.31.20 16.03 |
| Lab Sample Id: | 651048-001 | Date Collected: | 01.31.20 13.50 | Sample Depth: | 0 - 4 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 01.31.20 20.00 | Basis: | Wet Weight |
| Seq Number: | 3115251 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |
| Toluene | 108-88-3 | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.0400 | 0.0400 | mg/kg | 02.01.20 04.13 | U | 1 |
| o-Xylene | 95-47-6 | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |
| Total BTEX | | <0.0200 | 0.0200 | mg/kg | 02.01.20 04.13 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 02.01.20 04.13 | |
| 1,4-Difluorobenzene | 540-36-3 | 99 | % | 70-130 | 02.01.20 04.13 | |

# Certificate of Analytical Results 651048

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW05** | Matrix: | Soil | Date Received: | 01.31.20 16.03 |
| Lab Sample Id: | 651048-002 | Date Collected: | 01.31.20 13.55 | Sample Depth: | 0 - 4 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 01.31.20 18.00 | Basis: | Wet Weight |
| Seq Number: | 3115294 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **395** | 9.90 | mg/kg | 01.31.20 23.21 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 01.31.20 17.00 | Basis: | Wet Weight |
| Seq Number: | 3115292 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 02.03.20 12.22 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 02.03.20 12.22 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 02.03.20 12.22 | U | 1 |
| Total GRO-DRO | PHC628 | <49.8 | 49.8 | mg/kg | 02.03.20 12.22 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 02.03.20 12.22 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 89 | % | 70-135 | 02.03.20 12.22 | |
| o-Terphenyl | 84-15-1 | 90 | % | 70-135 | 02.03.20 12.22 | |

# Certificate of Analytical Results 651048

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **SW05** | Matrix: | Soil | Date Received: | 01.31.20 16.03 |
| Lab Sample Id: | 651048-002 | Date Collected: | 01.31.20 13.55 | Sample Depth: | 0 - 4 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 01.31.20 20.00 | Basis: | Wet Weight |
| Seq Number: | 3115251 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 02.01.20 20.33 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 02.01.20 20.33 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 460-00-4 | 106 | % | 70-130 | 02.01.20 20.33 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 02.01.20 20.33 | |

# 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



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# QC Summary 651048

## LT Environmental, Inc.

Golden 8 Federal Battery

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115294 — Matrix: Solid — Date Prep: 01.31.20
MB Sample Id: 7695746-1-BLK — LCS Sample Id: 7695746-1-BKS — LCSD Sample Id: 7695746-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 250 | 254 | 102 | 255 | 102 | 90-110 | 0 | 20 | mg/kg | 01.31.20 21:21 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115294 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 651013-028 — MS Sample Id: 651013-028 S — MSD Sample Id: 651013-028 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 42.4 | 201 | 251 | 104 | 253 | 105 | 90-110 | 1 | 20 | mg/kg | 02.03.20 11:49 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3115294 — Matrix: Soil — Date Prep: 01.31.20
Parent Sample Id: 651046-003 — MS Sample Id: 651046-003 S — MSD Sample Id: 651046-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 27.8 | 199 | 236 | 105 | 236 | 104 | 90-110 | 0 | 20 | mg/kg | 01.31.20 23:02 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115292 — Matrix: Solid — Date Prep: 01.31.20
MB Sample Id: 7695777-1-BLK — LCS Sample Id: 7695777-1-BKS — LCSD Sample Id: 7695777-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 950 | 95 | 883 | 88 | 70-135 | 7 | 35 | mg/kg | 01.31.20 20:26 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 781 | 78 | 747 | 75 | 70-135 | 4 | 35 | mg/kg | 01.31.20 20:26 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 109 | | 113 | | 105 | | 70-135 | % | 01.31.20 20:26 |
| o-Terphenyl | 112 | | 105 | | 99 | | 70-135 | % | 01.31.20 20:26 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3115292 — Matrix: Solid — Date Prep: 01.31.20
MB Sample Id: 7695777-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 01.31.20 20:26 | |

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

# QC Summary 651048

## LT Environmental, Inc.

Golden 8 Federal Battery

**Analytical Method:** TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3115292 | Matrix: Soil | Date Prep: 01.31.20
Parent Sample Id: 651025-018 | MS Sample Id: 651025-018 S | MSD Sample Id: 651025-018 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | 997 | 1110 | 111 | 1100 | 109 | 70-135 | 1 | 35 | mg/kg | 01.31.20 21:06 | |
| Diesel Range Organics (DRO) | <49.9 | 997 | 1140 | 114 | 1100 | 109 | 70-135 | 4 | 35 | mg/kg | 01.31.20 21:06 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 122 | | 116 | | 70-135 | % | 01.31.20 21:06 |
| o-Terphenyl | 111 | | 102 | | 70-135 | % | 01.31.20 21:06 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115251 | Matrix: Solid | Date Prep: 01.31.20
MB Sample Id: 7695742-1-BLK | LCS Sample Id: 7695742-1-BKS | LCSD Sample Id: 7695742-1-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 | 0.0920 | 92 | 0.102 | 102 | 70-130 | 10 | 35 | mg/kg | 02.01.20 01:10 | |
| Toluene | <0.00200 | 0.100 | 0.0892 | 89 | 0.0987 | 99 | 70-130 | 10 | 35 | mg/kg | 02.01.20 01:10 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0859 | 86 | 0.0950 | 95 | 71-129 | 10 | 35 | mg/kg | 02.01.20 01:10 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.176 | 88 | 0.195 | 98 | 70-135 | 10 | 35 | mg/kg | 02.01.20 01:10 | |
| o-Xylene | <0.00200 | 0.100 | 0.0884 | 88 | 0.0978 | 98 | 71-133 | 10 | 35 | mg/kg | 02.01.20 01:10 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 102 | | 104 | | 70-130 | % | 02.01.20 01:10 |
| 4-Bromofluorobenzene | 95 | | 95 | | 95 | | 70-130 | % | 02.01.20 01:10 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3115251 | Matrix: Soil | Date Prep: 01.31.20
Parent Sample Id: 651046-001 | MS Sample Id: 651046-001 S | MSD Sample Id: 651046-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | 0.0994 | 0.0755 | 76 | 0.0870 | 88 | 70-130 | 14 | 35 | mg/kg | 02.01.20 01:51 | |
| Toluene | <0.00199 | 0.0994 | 0.0785 | 79 | 0.0754 | 76 | 70-130 | 4 | 35 | mg/kg | 02.01.20 01:51 | |
| Ethylbenzene | 0.00507 | 0.0994 | 0.0815 | 77 | 0.0804 | 76 | 71-129 | 1 | 35 | mg/kg | 02.01.20 01:51 | |
| m,p-Xylenes | 0.0134 | 0.199 | 0.190 | 89 | 0.187 | 88 | 70-135 | 2 | 35 | mg/kg | 02.01.20 01:51 | |
| o-Xylene | 0.0126 | 0.0994 | 0.0865 | 74 | 0.0903 | 78 | 71-133 | 4 | 35 | mg/kg | 02.01.20 01:51 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 102 | | 70-130 | % | 02.01.20 01:51 |
| 4-Bromofluorobenzene | 114 | | 123 | | 70-130 | % | 02.01.20 01:51 |

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

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

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

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



Final 1.000

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# Chain of Custody

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

Work Order No: 651048

Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrel |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO-Energy |
| Address: | 3300 North A Street | Address: | |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM |
| Phone: | 432.704.5178 | Email: | dmoir@ltenv.com rmcafee@ltenv.com |

**Work Order Comments**

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

| | | | |
|---|---|---|---|
| Project Name: | Golden S Federal Battery | Turn Around | |
| Project Number: | 012919141 | Routine | ☐ |
| P.O. Number: | | Rush: | 2 day |
| Sampler's Name: | Robert McAfee | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | (Yes) No |
| Temperature (°C): | 1.2 | Thermometer ID | |
| Received Intact: | (Yes) No | T-NM-007 | |
| Cooler Custody Seals: | Yes (No) N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes (No) N/A | Total Containers: | 2 |

ANALYSIS REQUEST

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| SW04 | S | 01/31/20 | 1350 | 0-4' | 1 | X | X | X |
| SW05 | S | 01/31/20 | 1355 | 0-4' | 1 | X | X | X |

**Work Order Notes**

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

**Sample Comments**

Composite

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

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| | | 1/31/20 16:03 | 2 | | |
| | | 1/31/20 | 4 | | |
| | | | 6 | | |

Revised Date 05141B Rev. 2018.1

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Released to Imaging: 4/21/2026 9:41:19 AM
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# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

**Client:** LT Environmental, Inc.

**Date/ Time Received:** 01.31.2020 04.03.00 PM

**Work Order #:** 651048

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

**Temperature Measuring device used : T-NM-007**

| Sample Receipt Checklist | Comments |
|---|---|
| #1 *Temperature of cooler(s)? | 1.2 |
| #2 *Shipping container in good condition? | **Yes** |
| #3 *Samples received on ice? | **Yes** |
| #4 *Custody Seals intact on shipping container/ cooler? | **Yes** |
| #5 Custody Seals intact on sample bottles? | **Yes** |
| #6*Custody Seals Signed and dated? | **Yes** |
| #7 *Chain of Custody present? | **Yes** |
| #8 Any missing/extra samples? | **No** |
| #9 Chain of Custody signed when relinquished/ received? | **Yes** |
| #10 Chain of Custody agrees with sample labels/matrix? | **Yes** |
| #11 Container label(s) legible and intact? | **Yes** |
| #12 Samples in proper container/ bottle? | **Yes** |
| #13 Samples properly preserved? | **Yes** |
| #14 Sample container(s) intact? | **Yes** |
| #15 Sufficient sample amount for indicated test(s)? | **Yes** |
| #16 All samples received within hold time? | **Yes** |
| #17 Subcontract of sample(s)? | **No** |
| #18 Water VOC samples have zero headspace? | **N/A** |

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

Analyst: PH Device/Lot#:

**Checklist completed by:** Elizabeth McClellan Date: 01.31.2020

**Checklist reviewed by:** Jessica Kramer Date: 02.03.2020

# Analytical Report 653135

## for

## LT Environmental, Inc.

**Project Manager: Dan Moir**

**Golden 8 Federal Battery 1**

**012919219**

**02.21.2020**

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



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02.21.2020

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

Reference: XENCO Report No(s): **653135**
**Golden 8 Federal Battery 1**
Project Address: Eddy

**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) 653135. 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. 653135 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

**John Builes**
Project Manager

*A Small Business and Minority Company*

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



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# Sample Cross Reference 653135

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery 1

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---|---|---|---|---|
| FS03 | S | 02.20.2020 10:23 | 0.5 ft | 653135-001 |

# CASE NARRATIVE

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

***Project Name: Golden 8 Federal Battery 1***

Project ID: *012919219*
Work Order Number(s): *653135*

Report Date: *02.21.2020*
Date Received: *02.20.2020*

**Sample receipt non conformances and comments:**

None

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

None

**Analytical non conformances and comments:**

Batch: LBA-3117186 BTEX by EPA 8021B

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

# Certificate of Analysis Summary 653135

## LT Environmental, Inc., Arvada, CO

## Project Name: Golden 8 Federal Battery 1

**Project Id:** 012919219
**Contact:** Dan Moir
**Project Location:** Eddy

**Date Received in Lab:** Thu 02.20.2020 12:40
**Report Date:** 02.21.2020 13:45
**Project Manager:** Jessica Kramer

| *Analysis Requested* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | ***Lab Id:*** | 653135-001 | | | | | |
| | ***Field Id:*** | FS03 | | | | | |
| | ***Depth:*** | 0.5- ft | | | | | |
| | ***Matrix:*** | SOIL | | | | | |
| | ***Sampled:*** | 02.20.2020 10:23 | | | | | |
| **BTEX by EPA 8021B** | ***Extracted:*** | ** ** ** ** | | | | | |
| | ***Analyzed:*** | 02.20.2020 21:23 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Benzene | | <0.00200 | 0.00200 | | | | |
| Toluene | | <0.00200 | 0.00200 | | | | |
| Ethylbenzene | | <0.00200 | 0.00200 | | | | |
| m,p-Xylenes | | <0.00401 | 0.00401 | | | | |
| o-Xylene | | <0.00200 | 0.00200 | | | | |
| Total Xylenes | | <0.00200 | 0.00200 | | | | |
| Total BTEX | | <0.00200 | 0.00200 | | | | |
| **Chloride by EPA 300** | ***Extracted:*** | 02.20.2020 14:30 | | | | | |
| | ***Analyzed:*** | 02.20.2020 15:23 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Chloride | | 487 | 10.0 | | | | |
| **TPH by SW8015 Mod** | ***Extracted:*** | 02.20.2020 17:00 | | | | | |
| | ***Analyzed:*** | 02.21.2020 03:01 | | | | | |
| | ***Units/RL:*** | mg/kg | RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <49.9 | 49.9 | | | | |
| Diesel Range Organics (DRO) | | 371 | 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 66.9 | 49.9 | | | | |
| Total GRO-DRO | | 371 | 49.9 | | | | |
| Total TPH | | 438 | 49.9 | | | | |

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

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

John Builes
Project Manager

# Certificate of Analytical Results 653135

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS03** | Matrix: | Soil | Date Received: | 02.20.2020 12:40 |
| Lab Sample Id: | 653135-001 | Date Collected: | 02.20.2020 10:23 | Sample Depth: | 0.5 ft |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | Chloride by EPA 300 | | | Prep Method: | E300P |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 02.20.2020 14:30 | Basis: | Wet Weight |
| Seq Number: | 3117209 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| **Chloride** | 16887-00-6 | **487** | 10.0 | mg/kg | 02.20.2020 15:23 | | 1 |

| | | | | | |
|---|---|---|---|---|---|
| Analytical Method: | TPH by SW8015 Mod | | | Prep Method: | SW8015P |
| Tech: | DTH | | | % Moisture: | |
| Analyst: | DTH | Date Prep: | 02.20.2020 17:00 | Basis: | Wet Weight |
| Seq Number: | 3117215 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 02.21.2020 03:01 | U | 1 |
| **Diesel Range Organics (DRO)** | C10C28DRO | **371** | 49.9 | mg/kg | 02.21.2020 03:01 | | 1 |
| **Motor Oil Range Hydrocarbons (MRO)** | PHCG2835 | **66.9** | 49.9 | mg/kg | 02.21.2020 03:01 | | 1 |
| **Total GRO-DRO** | PHC628 | **371** | 49.9 | mg/kg | 02.21.2020 03:01 | | 1 |
| **Total TPH** | PHC635 | **438** | 49.9 | mg/kg | 02.21.2020 03:01 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 02.21.2020 03:01 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 02.21.2020 03:01 | |



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# Certificate of Analytical Results 653135

## LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery 1

| | | | | | |
|---|---|---|---|---|---|
| Sample Id: | **FS03** | Matrix: | Soil | Date Received: | 02.20.2020 12:40 |
| Lab Sample Id: | 653135-001 | Date Collected: | 02.20.2020 10:23 | Sample Depth: | 0.5 ft |
| Analytical Method: | BTEX by EPA 8021B | | | Prep Method: | SW5030B |
| Tech: | MAB | | | % Moisture: | |
| Analyst: | MAB | Date Prep: | 02.20.2020 11:30 | Basis: | Wet Weight |
| Seq Number: | 3117186 | | | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 02.20.2020 21:23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 02.20.2020 21:23 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 540-36-3 | 107 | % | 70-130 | 02.20.2020 21:23 | |
| 4-Bromofluorobenzene | 460-00-4 | 89 | % | 70-130 | 02.20.2020 21:23 | |

# Flagging Criteria

**X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

**B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

**D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

**E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

**F** RPD exceeded lab control limits.

**J** The target analyte was positively identified below the quantitation limit and above the detection limit.

**U** Analyte was not detected.

**L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

**H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

**K** Sample analyzed outside of recommended hold time.

**JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

**RL** Reporting Limit

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

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

**DL** Method Detection Limit

**NC** Non-Calculable

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

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

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

**+** NELAC certification not offered for this compound.

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



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# QC Summary 653135



## LT Environmental, Inc.

Golden 8 Federal Battery 1

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117209 — Matrix: Solid — Date Prep: 02.20.2020
MB Sample Id: 7697118-1-BLK — LCS Sample Id: 7697118-1-BKS — LCSD Sample Id: 7697118-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | 250 | 265 | 106 | 265 | 106 | 90-110 | 0 | 20 | mg/kg | 02.20.2020 12:33 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117209 — Matrix: Soil — Date Prep: 02.20.2020
Parent Sample Id: 653094-001 — MS Sample Id: 653094-001 S — MSD Sample Id: 653094-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3.02 | 200 | 207 | 102 | 209 | 103 | 90-110 | 1 | 20 | mg/kg | 02.20.2020 12:50 | |

**Analytical Method:** Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3117209 — Matrix: Soil — Date Prep: 02.20.2020
Parent Sample Id: 653094-011 — MS Sample Id: 653094-011 S — MSD Sample Id: 653094-011 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 3.80 | 200 | 218 | 107 | 217 | 107 | 90-110 | 0 | 20 | mg/kg | 02.20.2020 14:16 | |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117215 — Matrix: Solid — Date Prep: 02.20.2020
MB Sample Id: 7697186-1-BLK — LCS Sample Id: 7697186-1-BKS — LCSD Sample Id: 7697186-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 906 | 91 | 873 | 87 | 70-135 | 4 | 35 | mg/kg | 02.20.2020 23:07 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 997 | 100 | 898 | 90 | 70-135 | 10 | 35 | mg/kg | 02.20.2020 23:07 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 101 | | 121 | | 110 | | 70-135 | % | 02.20.2020 23:07 |
| o-Terphenyl | 106 | | 115 | | 106 | | 70-135 | % | 02.20.2020 23:07 |

**Analytical Method:** TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3117215 — Matrix: Solid — Date Prep: 02.20.2020
MB Sample Id: 7697186-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|---|---|---|---|---|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 02.20.2020 23:07 | |

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

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

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



Final 1.000

# QC Summary 653135

## LT Environmental, Inc.

Golden 8 Federal Battery 1

**Analytical Method:** TPH by SW8015 Mod | Prep Method: SW8015P
Seq Number: 3117215 | Matrix: Soil | Date Prep: 02.20.2020
Parent Sample Id: 653098-022 | MS Sample Id: 653098-022 S | MSD Sample Id: 653098-022 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 1070 | 107 | 936 | 94 | 70-135 | 13 | 35 | mg/kg | 02.20.2020 23:46 | |
| Diesel Range Organics (DRO) | <50.2 | 1000 | 1110 | 111 | 1050 | 105 | 70-135 | 6 | 35 | mg/kg | 02.20.2020 23:46 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1-Chlorooctane | 127 | | 121 | | 70-135 | % | 02.20.2020 23:46 |
| o-Terphenyl | 133 | | 121 | | 70-135 | % | 02.20.2020 23:46 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117186 | Matrix: Solid | Date Prep: 02.20.2020
MB Sample Id: 7697112-1-BLK | LCS Sample Id: 7697112-1-BKS | LCSD Sample Id: 7697112-1-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 | 0.103 | 103 | 0.101 | 101 | 70-130 | 2 | 35 | mg/kg | 02.20.2020 12:33 | |
| Toluene | <0.00200 | 0.100 | 0.101 | 101 | 0.0984 | 98 | 70-130 | 3 | 35 | mg/kg | 02.20.2020 12:33 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0983 | 98 | 0.0951 | 95 | 71-129 | 3 | 35 | mg/kg | 02.20.2020 12:33 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.203 | 102 | 0.196 | 98 | 70-135 | 4 | 35 | mg/kg | 02.20.2020 12:33 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.0978 | 98 | 71-133 | 3 | 35 | mg/kg | 02.20.2020 12:33 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 104 | | 104 | | 104 | | 70-130 | % | 02.20.2020 12:33 |
| 4-Bromofluorobenzene | 93 | | 93 | | 94 | | 70-130 | % | 02.20.2020 12:33 |

**Analytical Method:** BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3117186 | Matrix: Soil | Date Prep: 02.20.2020
Parent Sample Id: 652839-003 | MS Sample Id: 652839-003 S | MSD Sample Id: 652839-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | 0.101 | 0.102 | 101 | 0.124 | 124 | 70-130 | 19 | 35 | mg/kg | 02.20.2020 13:14 | |
| Toluene | <0.00202 | 0.101 | 0.110 | 109 | 0.121 | 121 | 70-130 | 10 | 35 | mg/kg | 02.20.2020 13:14 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.107 | 106 | 0.117 | 117 | 71-129 | 9 | 35 | mg/kg | 02.20.2020 13:14 | |
| m,p-Xylenes | <0.00404 | 0.202 | 0.224 | 111 | 0.240 | 120 | 70-135 | 7 | 35 | mg/kg | 02.20.2020 13:14 | |
| o-Xylene | <0.00202 | 0.101 | 0.111 | 110 | 0.118 | 118 | 71-133 | 6 | 35 | mg/kg | 02.20.2020 13:14 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|---|---|---|---|---|---|---|---|
| 1,4-Difluorobenzene | 100 | | 104 | | 70-130 | % | 02.20.2020 13:14 |
| 4-Bromofluorobenzene | 96 | | 92 | | 70-130 | % | 02.20.2020 13:14 |

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

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

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

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# Chain of Custody

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

Work Order No: 453135

Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | |
| City, State ZIP: | Midland, Tx 79705 | City, State ZIP: | |
| Phone: | (432) 236-3849 | Email: | wmather@ltenv.com, dmoir@ltenv.com |

**Work Order Comments**

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

| | | | |
|---|---|---|---|
| Project Name: | Golden 8 Federal Battery 1 | Turn Around | |
| Project Number: | 12919219 | Routine | ☐ |
| P.O. Number: | Eddy | Rush: | 24hr |
| Sampler's Name: | William Mather | Due Date: | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | (Yes) No |
| Temperature (°C): | 0.8 | Thermometer ID | |
| Received Intact: | (Yes) No | T-NM-007 | |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No (N/A) | Total Containers: | 1 |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 8021) | Chloride (EPA 300.0) |
|---|---|---|---|---|---|---|---|---|
| FS03 | S | 2/20/2020 | 10:23 | 5' | 1 | X | X | X |

ANALYSIS REQUEST

**Work Order Notes**

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

**Sample Comments**

Composite

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

*Circle Method(s) and Metal(s) to be analyzed* **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| | | 2/20/20 1240 | 2 | | |
| | | | 4 | | |
| | | | 6 | | |

Received by OCD: 4/14/2026 3:17:09 PM
Released to Imaging: 4/21/2026 9:41:19 AM
Page 11 of 11
Final 1.000

ATTACHMENT 4: LITHOLOGIC / SOIL SAMPLING LOG

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220
A proud member of WSP
Compliance · Engineering · Remediation

| | |
|---|---|
| BH or PH Name: PH01 | Date: 12/3/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 12919219 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: FS | Method: | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | |
| D | 907 | 63.5 | N | PH01 | 0.5' | | | SC, SL, SP, earthy brown |
| D | 1,988 | 61.7 | N | PH01A | 1' | 1 | | SC, SL, SP, earthy brown |
| | | | | | | 2 | | |
| D | 2,290 | 2.0 | N | PH01B | 3' | 3 | | SC, SL, SP, earthy brown |
| | | | | | | 4 | | |
| | | | | | | 5 | | |
| | | | | | | 6 | | |
| | | | | | | 7 | | |
| | | | | | | 8 | | |
| | | | | | | 9 | | |
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| | | | | | | 11 | | |
| | | | | | | 12 | | |

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| | |
|---|---|
| BH or PH Name: PH02 | Date: 12/3/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 12919219 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: FS | Method: | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| D | 991 | 416.5 | Y | PH02 | 0.5' | 0 | | Black staining, strong odor |
| D | 1,372 | 2.1 | N | PH02A | 1' | 1 | | SC, SL, SP, earthy brown |
| | | | | | | 2 | | |
| | | | | | | 3 | | |
| | | | | | | 4 | | |
| | | | | | | 5 | | |
| | | | | | | 6 | | |
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| | |
|---|---|
| BH or PH Name: PH03 | Date: 12/4/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 12919219 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: FS | Method: | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | |
| D | 907 | 0.9 | N | PH03 | 1' | 1 | | SC, SL, SP, reddish brown |
| D | 554 | 1.2 | N | PH03A | 2' | 2 | | SC, SL, SP, reddish brown |
| D | 1,372 | 1.3 | N | PH03B | 3' | 3 | | GW, tan, caliche, no odor |
| | | | | | | 4 | | |
| | | | | | | 5 | | |
| | | | | | | 6 | | |
| | | | | | | 7 | | |
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| | |
|---|---|
| BH or PH Name: BH01 | Date: 12/4/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 12919219 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: FS | Method: | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | |
| D | 285 | 4.0 | N | BH01 | 0.5' | | | SC, SL, SP, reddish brown |
| D | 207 | 0.7 | N | BH01A | 1' | 1 | | SC, SL, SP, reddish brown |
| D | 1,450 | 0.5 | N | BH01B | 2' | 2 | | SC, SL, SP, reddish brown |
| | | | | | | 3 | | |
| | | | | | | 4 | | |
| | | | | | | 5 | | |
| | | | | | | 6 | | |
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| | | | | | | 12 | | |

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| | |
|---|---|
| BH or PH Name: BH02 | Date: 12/4/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 12919219 | |

**LITHOLOGIC / SOIL SAMPLING LOG**

| | | | |
|---|---|---|---|
| Logged By: FS | Method: | | |
| Lat/Long: | Field Screening: Chloride, PID | Hole Diameter: | Total Depth: |

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| D | 554 | 0.1 | N | BH02 | 0.5' | 0 | | SC, SL, SP, reddish brown |
| D | 683 | 0.4 | N | BH01A | 1' | 1 | | SC, SL, SP, reddish brown |
| | | | | | | 2 | | |
| | | | | | | 3 | | |
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Carlsbad, New Mexico 88220
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| | |
|---|---|
| BH or PH Name: BH03 | Date: 12/4/2019 |
| Site Name: Golden 8 Federal Battery 1 | |
| RP or Incident Number: 2RP-5672 | |
| LTE Job Number: 012919219 | |
| Logged By: FS | Method: |
| Lat/Long: | Field Screening: Chloride, PID |
| Hole Diameter: | Total Depth: 0.5 |

**LITHOLOGIC / SOIL SAMPLING LOG**

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithology/Remarks |
|---|---|---|---|---|---|---|---|---|
| D | 554 | 561.0 | N | BH03 | 0.5' | 0 | | SC, SL, SP, reddish brown, grey staining |
| | | | | | | 1 | | Auger refusal at 0.5' |
| | | | | | | 2 | | |
| | | | | | | 3 | | |
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ENSOLUM

# APPENDIX D

# May 7, 2021 *Deferral Request Addendum* (Incident Number NAB1929041495)

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

May 7, 2021

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

**RE: Deferral Request Addendum**
**Golden 8 Federal Battery 1**
**Remediation Permit Number 2RP-5672/Incident Number NAB1929041495**
**Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following addendum to the original Deferral Request submitted on September 2, 2020. This addendum provides an update to the depth to groundwater determination activities at the Golden 8 Federal Battery 1 (Site) in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (Figure 1) in response to the denial of the Deferral Request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD expressed concern that the depth to groundwater assessment may not be sufficient. Based on the additional depth to groundwater determination activities described below, XTO is requesting no further action (NFA) for Remediation Permit (RP) Number 2RP-5672/Incident Number NAB1929041495.

**BACKGROUND**

On September 2, 2020, WSP submitted a Deferral Request to the NMOCD for the September 12, 2019 release of crude oil and produced water at the Site. Approximately 0.01 barrels (bbls) of crude oil and 5.79 bbls of produced water were released within the earthen berm surrounding the battery. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 0.01 bbls of crude oil and approximately 4.99 bbls of produced water were recovered from within the earthen berm. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 27, 2019. The release was assigned RP Number 2RP-5672 and Incident Number NAB1929041495.

The Deferral Request detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Based on the site characterization, the following 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

Deferral was requested due to TPH-impacted soil left in place immediately surrounding active production equipment. XTO safety policy restricts earth-moving activities within two feet of active production equipment. An estimated 4 cubic yards of residual impacted soil remains in-place. The residual impacted soil is delineated vertically and laterally by excavation and delineation soil samples as presented in the original Deferral Request.

On November 9, 2020, the NMOCD denied the Deferral Request for RP Number 2RP-5672/ Incident Number NAB1929041495 for the 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. The responsible party may choose to delineate to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater.*

**ADDITIONAL SITE ACTIVITIES**

In an effort to confirm the depth to groundwater determination, WSP installed a soil boring (C-4507) at the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4507 was drilled to a depth of 110 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The Well Record and Log are included in Attachment 2. The borehole is located at the Site, the borehole location is shown on Figure 1. 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 beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to water greater than 110 feet bgs, the Table 1 Closure Criteria identified in the original Deferral Request are applicable and appropriate for protection of groundwater at this Site.

**DEFERRAL REQUEST**

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the September 12, 2019 release of crude oil and produced water. An estimated 4 cubic yards of residual impacted soil remains in-place beneath or adjacent to the active

production equipment. The impacted soil remaining in-place is laterally and vertically delineated to below the Site Closure Criteria.

Based on the confirmed depth to water greater than 110 feet bgs and laboratory analytical results for the lateral and vertical delineation soil samples below the Site Closure Criteria, XTO respectfully requests deferral of final remediation for RP Number 2RP-5672/Incident Number NAB1929041495 until the Site is reconstructed, and/or the well pad is abandoned.

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

Sincerely,

WSP USA Inc.

Elizabeth Naka
Assistant Consultant, Environmental Scientist

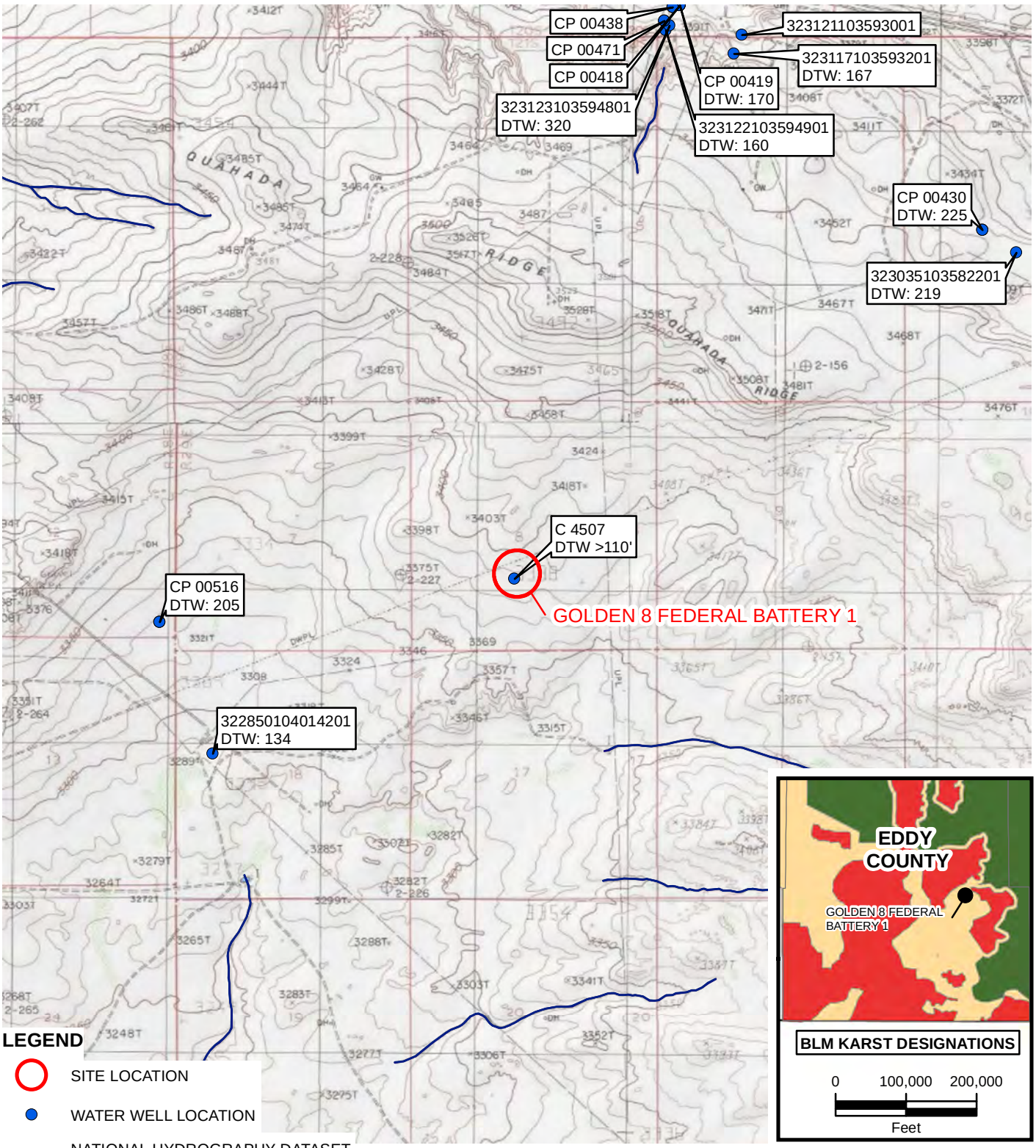
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

Figure 1 Site Location Map
Attachment 1 Well Record and Log

FIGURES




**LEGEND**

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: REMEDIATION PERMIT NUMBER 2RP-5672
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
GOLDEN 8 FEDERAL BATTERY 1
UNIT K SEC 8 T21S R29E
EDDY COUNTY, NEW MEXICO
**XTO ENERGY, INC.**

P:\XTO Energy\GIS\MXD\012919219_GOLDEN 8 FED BATTERY\012919219_FIG01_SL_RECEPTOR_2021.mxd

ATTACHMENT 2: WELL RECORD AND LOG

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

05/05/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

*Hand Delivered to the DII Office of the State Engineer*

Re: Well Record C-4507 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4507

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

# PLUGGING RECORD

**NOTE:** A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4507- POD1

Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873

Mailing address: 6401 Holiday Hill Dr.

City: Midland State: Texas Zip code: 79707

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins ( Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge

4) Date well plugging began: 04/27/2021 Date well plugging concluded: 04/27/2021

5) GPS Well Location: Latitude: 32 deg, 29 min, 28.44 sec
Longitude: 104 deg, 0 min, 28.00 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 110 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 01/29/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

**For each interval plugged, describe within the following columns:**

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|---|---|---|---|---|---|
| | 0-10' Hydrated Bentonite | Approx. 15.8 gallons | 16 gallons | Augers | |
| | 10'-110' Drill Cuttings | Approx. 172 gallons | 172 gallons | Boring | |

| MULTIPLY | | BY | | AND OBTAIN |
|---|---|---|---|---|
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

**III. SIGNATURE:**

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

Signature of Well Driller

05/05/2021

Date

Version: September 8, 2009
Page 2 of 2

# 2021-05-04_C-4507_Plugging Record_golden-forsign

Final Audit Report 2021-05-05

| | |
|---|---|
| Created: | 2021-05-05 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAusM-6cPyH0hTk8dumyZPnasZJw9Df5Tw |

## "2021-05-04_C-4507_Plugging Record_golden-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2021-05-05 - 8:55:06 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-05-05 - 8:55:20 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2021-05-05 - 9:28:36 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-05-05 - 9:29:02 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2021-05-05 - 9:29:02 PM GMT

Adobe Sign

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| OSE POD NO. (WELL NO.) | WELL TAG ID NO. | OSE FILE NO(S). |
|---|---|---|
| POD1 (BH-01) | n/a | C-4507 |

| WELL OWNER NAME(S) | PHONE (OPTIONAL) |
|---|---|
| XTO Energy (Kyle Littrell) | |

| WELL OWNER MAILING ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|
| 6401 Holiday Hill Dr. | Midland | TX | 79707 |

| WELL LOCATION (FROM GPS) | | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|---|
| | LATITUDE | 32 | 29 | 28.44 | N |
| | LONGITUDE | 104 | 0 | 28.00 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE SW Sec. 8 T21S R29E

**2. DRILLING & CASING INFORMATION**

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| 1249 | Jackie D. Atkins | Atkins Engineering Associates, Inc. |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 04/21/2021 | 04/21/2021 | temporary well material | 110 | n/a |

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|
| 0 | 110 | ±6.5 | Boring- HSA | -- | -- | -- | -- |

**3. ANNULAR MATERIAL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| FILE NO. | POD NO. | TRN NO. | |
|---|---|---|---|
| LOCATION | | WELL TAG ID NO. | PAGE 1 OF 2 |

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0 | 4 | 4 | Sand w/ caliche, brown, no odor, no stain, m-f, well sorted, low consolidation | Y ✓ N | |
| 4 | 9 | 5 | Caliche, tan, low consolidation, brown sand, m-f grained, moderately sorted | Y ✓ N | |
| 9 | 11 | -- | Sand w/ caliche, light brown, low consolidation, moderateley sorted, | Y ✓ N | |
| -- | 11 | 2 | small tan caliche gravel | Y ✓ N | |
| 11 | 110 | 99 | Sand w/ caliche, light brown, low consolidation, moderateley sorted, | Y ✓ N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

**5. TEST; RIG SUPERVISION**

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Golden 8 Fed Battery .Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.
Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 05/05/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

| FILE NO. | POD NO. | TRN NO. | |
|---|---|---|---|
| LOCATION | | WELL TAG ID NO. | PAGE 2 OF 2 |

# 2021-05-04_C-4507_OSE_Well Record and Log_golden-forsign

Final Audit Report 2021-05-05

| | |
|---|---|
| Created: | 2021-05-05 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAAwFWBSMHf8LZfeG-H9rfnRsaIIPfQ_tG4 |

## "2021-05-04_C-4507_OSE_Web Record and Log_golden-forsign " History

Document created by Lucas Middleton (lucas@atkinseng.com)
2021-05-05 - 8:54:35 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-05-05 - 8:54:50 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2021-05-05 - 9:27:55 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-05-05 - 9:28:26 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2021-05-05 - 9:28:26 PM GMT

OCD 5/7 MAY 5 2021 PM 3:53

Adobe Sign

ENSOLUM

# APPENDIX E

# Photographic Log

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal 001




Photograph 1 Date :5/3/2024
Description: North portion of northern excavation
View: East




Photograph 2 Date :5/3/2024
Description: Northern excavation
View: Northeast




Photograph 3 Date :5/3/2024
Description: South portion of northern excavation
View: Northeast




Photograph 4 Date :5/3/2024
Description: Southern excavation
View: Northeast

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal 001




Photograph : 5 Date :6/3/2024
Description: Northern excavation
View: North




Photograph : 6 Date :6/3/2024
Description: Northern excavation
View: Northeast




Photograph : 7 Date :10/16/2024
Description: Reclaimed well pad
View: Southeast




Photograph : 8 Date :10/16/2024
Description: Reclaimed well pad
View: Northwest

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal 001




Photograph : 9 Date :10/16/2024
Description: Reclaimed well pad
View: Southwest




Photograph : 10 Date :10/16/2024
Description: Reclaimed well pad
View: Northwest




Photograph : 11 Date :10/16/2024
Description: Reclaimed well pad
View: North




Photograph : 12 Date :10/16/2024
Description: Bermed and fenced well pad
View: Southeast

ENSOLUM

# APPENDIX F

# 2024 Laboratory Analytical Reports and Chain of Custody Documentation

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 28, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/22/2024 | Sampling Date: | 03/21/2024 |
| Reported: | 03/28/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 01 10' (H241511-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/26/2024 | ND | 2.23 | 112 | 2.00 | 2.02 | |
| Toluene* | <0.050 | 0.050 | 03/26/2024 | ND | 2.18 | 109 | 2.00 | 1.89 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/26/2024 | ND | 2.12 | 106 | 2.00 | 2.10 | |
| Total Xylenes* | <0.150 | 0.150 | 03/26/2024 | ND | 6.16 | 103 | 6.00 | 2.07 | |
| Total BTEX | <0.300 | 0.300 | 03/26/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *93.1 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **192** | 16.0 | 03/25/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/25/2024 | ND | 202 | 101 | 200 | 2.65 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/25/2024 | ND | 194 | 96.9 | 200 | 0.0155 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/25/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *96.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *92.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Connor Whitman | **Fax #:** |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | BTEX | TPH | CHLORIDE | | | | | | | | | | |
| H241511 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FS01 | 10 | C | 1 | | | ✓ | | | | | ✓ | | 3/21/24 | 1315 | ✓ | ✓ | ✓ | | | | | | | | | | |

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| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 3-22-24 | **Received By:** | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| | **Time:** 1145 | | **All Results are emailed. Please provide Email address:** |
| **Relinquished By:** | **Date:** | **Received By:** | <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| | **Time:** | | **REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 |
| | | | Cost Center: 1080881001 |

| | | | | |
|---|---|---|---|---|
| **Delivered By: (Circle One)** | Observed Temp. °C 4.4 | **Sample Condition** Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No | **CHECKED BY: (Initials)** | **Turnaround Time:** Standard ☑ Rush ☐ |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C | | | **Bacteria (only) Sample Condition** Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C |
| | | | | Thermometer ID ~~#113~~ #140 Correction Factor ~~0.5°C~~ 0.0 Corrected Temp. °C |

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 01, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/25/24 9:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/25/2024 | Sampling Date: | 03/22/2024 |
| Reported: | 04/01/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW01 4-10' (H241532-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/27/2024 | ND | 1.99 | 99.4 | 2.00 | 8.74 | |
| Toluene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.13 | 106 | 2.00 | 3.40 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.24 | 112 | 2.00 | 2.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/27/2024 | ND | 6.86 | 114 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 03/27/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1060** | 16.0 | 03/27/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/26/2024 | ND | 221 | 110 | 200 | 3.05 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/26/2024 | ND | 225 | 112 | 200 | 1.12 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/26/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *94.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *96.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/25/2024 | Sampling Date: | 03/22/2024 |
| Reported: | 04/01/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: FS 02 10' (H241532-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/27/2024 | ND | 1.99 | 99.4 | 2.00 | 8.74 | |
| Toluene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.13 | 106 | 2.00 | 3.40 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.24 | 112 | 2.00 | 2.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/27/2024 | ND | 6.86 | 114 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 03/27/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **608** | 16.0 | 03/27/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/26/2024 | ND | 221 | 110 | 200 | 3.05 | |
| **DRO >C10-C28*** | **351** | 10.0 | 03/26/2024 | ND | 225 | 112 | 200 | 1.12 | |
| **EXT DRO >C28-C36** | **88.6** | 10.0 | 03/26/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *107 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *117 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/25/2024 | Sampling Date: | 03/22/2024 |
| Reported: | 04/01/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW02 0-4' (H241532-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/27/2024 | ND | 1.99 | 99.4 | 2.00 | 8.74 | |
| Toluene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.13 | 106 | 2.00 | 3.40 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.24 | 112 | 2.00 | 2.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/27/2024 | ND | 6.86 | 114 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 03/27/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *107 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **144** | 16.0 | 03/27/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/26/2024 | ND | 221 | 110 | 200 | 3.05 | |
| **DRO >C10-C28*** | **937** | 10.0 | 03/26/2024 | ND | 225 | 112 | 200 | 1.12 | |
| **EXT DRO >C28-C36** | **556** | 10.0 | 03/26/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *79.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *102 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/25/2024 | Sampling Date: | 03/22/2024 |
| Reported: | 04/01/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW03 0-4' (H241532-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/27/2024 | ND | 1.99 | 99.4 | 2.00 | 8.74 | |
| Toluene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.13 | 106 | 2.00 | 3.40 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.24 | 112 | 2.00 | 2.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/27/2024 | ND | 6.86 | 114 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 03/27/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *118 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **112** | 16.0 | 03/27/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/26/2024 | ND | 221 | 110 | 200 | 3.05 | |
| **DRO >C10-C28*** | **971** | 10.0 | 03/26/2024 | ND | 225 | 112 | 200 | 1.12 | |
| **EXT DRO >C28-C36** | **603** | 10.0 | 03/26/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *97.0 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *122 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/25/2024 | Sampling Date: | 03/22/2024 |
| Reported: | 04/01/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW04 4-10' (H241532-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 03/27/2024 | ND | 1.99 | 99.4 | 2.00 | 8.74 | |
| Toluene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.13 | 106 | 2.00 | 3.40 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/27/2024 | ND | 2.24 | 112 | 2.00 | 2.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/27/2024 | ND | 6.86 | 114 | 6.00 | 1.59 | |
| Total BTEX | <0.300 | 0.300 | 03/27/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *120 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 03/27/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 03/26/2024 | ND | 221 | 110 | 200 | 3.05 | |
| **DRO >C10-C28*** | **1920** | 10.0 | 03/26/2024 | ND | 225 | 112 | 200 | 1.12 | |
| **EXT DRO >C28-C36** | **523** | 10.0 | 03/26/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *99.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *116 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Page 459 of 591



CARDINAL Laboratories
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Connor Whitman | **Fax #:** |

**ANALYSIS REQUEST**

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241532-1 | SV01 | 4-10 | C | 1 | | | X | | | | | X | | 3/22/24 | 915 | X | X | X |
| -2 | FS02 | 10 | | | | | | | | | | | | | 1035 | | | |
| -3 | SV02 | 0-4 | | | | | | | | | | | | | 1240 | | | |
| -4 | SV03 | 0-4 | | | | | | | | | | | | | 1245 | | | |
| -5 | SW04 | 4-10 | ↓ | ↓ | | | ↓ | | | | | ↓ | | ↓ | 1250 | ↓ | ↓ | ↓ |

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| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 3.25.24 **Time:** 0932 | **Received By:** | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | **Observed Temp. °C** 4.4 **Corrected Temp. °C** | **Sample Condition** Cool ~~Intact~~ ☐ Yes ☐ Yes ☐ No ☐ No | **CHECKED BY: (Initials)** SR |

**REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856

Cost Center: 1080881001

**Turnaround Time:** Standard ☑ Rush ☐

Thermometer ID ~~#113~~ #140
Correction Factor ~~0.5°C~~

**Bacteria (only) Sample Condition** Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C**

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 04, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 03 4' (H241623-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.88 | 94.1 | 2.00 | 6.87 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.94 | 96.9 | 2.00 | 5.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.92 | 95.9 | 2.00 | 6.30 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 5.69 | 94.9 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *112 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **624** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *91.0 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *73.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 04 4' (H241623-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.88 | 94.1 | 2.00 | 6.87 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.94 | 96.9 | 2.00 | 5.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.92 | 95.9 | 2.00 | 6.30 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 5.69 | 94.9 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **576** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *73.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 05 2' (H241623-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.88 | 94.1 | 2.00 | 6.87 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.94 | 96.9 | 2.00 | 5.76 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 1.92 | 95.9 | 2.00 | 6.30 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 5.69 | 94.9 | 6.00 | 6.13 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *112 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **608** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *90.6 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *76.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 06 0-4' (H241623-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | QR-03 |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | QR-03 |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | QR-03 |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *112 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *101 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *82.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 06 4' (H241623-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *76.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *66.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/26/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 05 0-2' (H241623-06)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **96.0** | 16.0 | 04/01/2024 | ND | 400 | 100 | 400 | 3.92 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *87.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *74.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Notes and Definitions

| | |
|---|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

Page 468 of 591



# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** | Ensolum, LLC |
| **Project Manager:** | Wes Weichert <wweichert@ensolum.com> |
| **Address:** | 3122 National Parks Hwy |
| **City:** | Carlsbad **State:** NM **Zip:** 88220 |
| **Phone #:** | 337 257-8307 **Fax #:** |
| **Project #:** | 03C1558291 **Project Owner:** XTO |
| **Project Name:** | Golden 8-D-B-17 Federal Battery |
| **Project Location:** | |
| **Sampler Name:** | Connor Whitman |

**BILL TO**

| | |
|---|---|
| **P.O. #:** | |
| **Company:** | XTO Energy Inc. |
| **Attn:** | Amy Ruth |
| **Address:** | 3104 E. Green St. |
| **City:** | Carlsbad |
| **State:** | NM **Zip:** 88220 |
| **Phone #:** | |
| **Fax #:** | |

**ANALYSIS REQUEST**

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241623 | | | | | | | | | | | | | | | | | | |
| 1 | FS03 | 4 | G | 1 | | | ✓ | | | | | ✓ | | 3/26/24 | 1210 | | | |
| 2 | FS04 | 4 | C | | | | ✓ | | | | | ✓ | | | 1215 | | | |
| 3 | FS05 | 2 | C | | | | ✓ | | | | | ✓ | | | 1255 | | | |
| 4 | SW06 | 0-4 | C | | | | ✓ | | | | | ✓ | | | 1400 | | | |
| 5 | FS06 | 4 | C | | | | ✓ | | | | | ✓ | | | 1410 | | | |
| 6 | SW05 | 0-2 | C | | | | ✓ | | | | | ✓ | | | 1245 | | | CW |

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| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 3-28-24 | **Received By:** | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| | **Time:** 1342 | | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| **Relinquished By:** | **Date:** | **Received By:** | **REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 |
| | **Time:** | | **Cost Center:** 1080881001 |

| | | | | |
|---|---|---|---|---|
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 0.3 / Corrected Temp. °C | **Sample Condition** Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No | **CHECKED BY: (Initials)** JO | **Turnaround Time:** Standard ☑ Rush ☐ **Thermometer ID** ~~#113~~ #140 **Correction Factor** ~~0.5°C~~ JO. 3/28/24 **Bacteria (only) Sample Condition** Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C** |

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 04, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 07 4' (H241625-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **336** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *90.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *80.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 08 4' (H241625-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *107 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **432** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *76.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 09 4' (H241625-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| **Total Xylenes*** | **0.166** | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *120 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **800** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **853** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **234** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *95.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *82.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 10 4' (H241625-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **432** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **54.4** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **41.0** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *102 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *87.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 11 4' (H241625-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **736** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **25.0** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *97.5 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *85.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 12 4' (H241625-06)

**BTEX 8021B** mg/kg Analyzed By: JH S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| **Toluene*** | **0.137** | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| **Ethylbenzene*** | **0.336** | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| **Total Xylenes*** | **6.28** | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| **Total BTEX** | **6.75** | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *140 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **784** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **74.9** | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **2250** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **411** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *116 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *82.4 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 13 4' (H241625-07)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **768** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <50.0 | 50.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **706** | 50.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **336** | 50.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *102 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *97.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 14 4' (H241625-08)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **752** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **141** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **28.0** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *96.9 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *85.5 %* *49.1-148*

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 15 4' (H241625-09)

**BTEX 8021B** mg/kg Analyzed By: JH S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| **Toluene*** | **0.896** | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| **Ethylbenzene*** | **0.950** | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| **Total Xylenes*** | **10.2** | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| **Total BTEX** | **12.1** | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *140 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **256** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **52.8** | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **1480** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **225** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *114 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *67.1 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 16 4' (H241625-10)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *109 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.0** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| **DRO >C10-C28*** | **60.2** | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| **EXT DRO >C28-C36** | **49.8** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *79.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 17 4' (H241625-11)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *114 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **656** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 237 | 118 | 200 | 5.62 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 114 | 200 | 5.71 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *87.9 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *79.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 18 4' (H241625-12)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *115 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **16.3** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **16.8** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *93.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *99.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 19 4' (H241625-13)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **256** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **378** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **119** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *94.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *111 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 07 0-4' (H241625-14)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *109 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 04/01/2024 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **19.4** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **17.2** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *99.7 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 08 0-4' (H241625-15)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 2.70 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.10 | 105 | 2.00 | 4.65 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.12 | 106 | 2.00 | 4.94 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.18 | 103 | 6.00 | 6.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **208** | 16.0 | 04/02/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **422** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **187** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.6 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *101 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 09 0-4' (H241625-16)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.18 | 109 | 2.00 | 3.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 4.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.08 | 104 | 2.00 | 3.99 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.04 | 101 | 6.00 | 4.16 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *92.9 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **272** | 16.0 | 04/02/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **243** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **206** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *99.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *114 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/27/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 10 0-4' (H241625-17)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.18 | 109 | 2.00 | 3.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.14 | 107 | 2.00 | 4.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2024 | ND | 2.08 | 104 | 2.00 | 3.99 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2024 | ND | 6.04 | 101 | 6.00 | 4.16 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *94.0 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **368** | 16.0 | 04/02/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 6.94 | |
| **DRO >C10-C28*** | **37.0** | 10.0 | 04/01/2024 | ND | 246 | 123 | 200 | 14.3 | |
| **EXT DRO >C28-C36** | **37.2** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *98.5 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Connor Whitman | **Fax #:** |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab I.D.** H241625 | **Sample I.D.** | **Sample Depth (feet)** | **(G)RAB OR (C)OMP.** | **# CONTAINERS** | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | **DATE** | **TIME** | BTEX | TPH | CHLORIDE | | | | | | | | | | | |
| 1 | FS07 | 4' | C | 1 | | | | | | | | ✓ | | 3/27/24 | 1015 | | | | | | | | | | | | | |
| 2 | FS08 | | | | | | | | | | | | | | 1020 | | | | | | | | | | | | | |
| 3 | FS09 | | | | | | | | | | | | | | 1025 | | | | | | | | | | | | | |
| 4 | FS10 | | | | | | | | | | | | | | 1030 | | | | | | | | | | | | | |
| 5 | FS11 | | | | | | | | | | | | | | 1035 | | | | | | | | | | | | | |
| 6 | FS12 | | | | | | | | | | | | | | 1040 | | | | | | | | | | | | | |
| 7 | FS13 | | | | | | | | | | | | | | 1045 | | | | | | | | | | | | | |
| 8 | FS14 | | | | | | | | | | | | | | 1050 | | | | | | | | | | | | | |
| 9 | FS15 | | | | | | | | | | | | | | 1205 | | | | | | | | | | | | | |
| 10 | FS16 | | | | | | | | | | | | | | 1210 | | | | | | | | | | | | | |

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| | | | |
|---|---|---|---|
| **Relinquished By:** CHH | **Date:** 3-28-24 **Time:** 1342 | **Received By:** Tamara Oldaker | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |

**REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856

Cost Center: 1080881001

| | | | | | |
|---|---|---|---|---|---|
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 0.3 Corrected Temp. °C | **Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No | **CHECKED BY: (Initials)** TO. | **Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID ~~#113~~ #140 Correction Factor ~~-0.5°C~~ 5/28/24 TO | **Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C |

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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Released to Imaging: 4/21/2026 9:41:19 AM

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CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | |
|---|---|
| Company Name: Ensolum, LLC | **BILL TO** |
| Project Manager: Wes Weichert <wweichert@ensolum.com> | P.O. #: |
| Address: 3122 National Parks Hwy | Company: XTO Energy Inc. |
| City: Carlsbad State: NM Zip: 88220 | Attn: Amy Ruth |
| Phone #: 337 257-8307 Fax #: | Address: 3104 E. Green St. |
| Project #: 03C1558291 Project Owner: XTO | City: Carlsbad |
| Project Name: Golden 8-D-B-17 Federal Battery | State: NM Zip: 88220 |
| Project Location: | Phone #: |
| Sampler Name: Connor Whitman | Fax #: |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | ANALYSIS REQUEST: BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241625 | | | | | | | | | | | | | | | | | | |
| 11 | FS17 | 4 | C | 1 | | | ✓ | | | | | ✓ | | 3/27/24 | 1215 | | | |
| 12 | FS18 | 4 | | | | | | | | | | | | | 1220 | | | |
| 13 | FS19 | 4 | | | | | | | | | | | | | 1255 | | | |
| 14 | SW07 | 0-4 | | | | | | | | | | | | | 1305 | | | |
| 15 | SW08 | 0-4 | | | | | | | | | | | | | 1310 | | | |
| 16 | SW09 | 0-4 | | | | | | | | | | | | | 1315 | | | |
| 17 | SW10 | 0-4 | ↓ | ↓ | | | | | | | | | | ↓ | 1320 | | | CW |

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| | | | |
|---|---|---|---|
| Relinquished By: | Date: 3-28-24 | Received By: | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| | Time: 1342 | | All Results are emailed. Please provide Email address: |
| Relinquished By: | Date: | Received By: | <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| | Time: | | REMARKS: NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 |
| | | | Cost Center: 1080881001 |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 0.3 Corrected Temp. °C | Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No | CHECKED BY: (Initials) |

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID ~~#113~~ #140 Correction Factor ~~0.5°C~~ 3/28/24
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 04, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/24 13:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 11 0-4' (H241634-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 04/02/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **150** | 10.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **103** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *78.4 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *76.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 12 0-4' (H241634-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **320** | 16.0 | 04/01/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **1070** | 10.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **382** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.4 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *90.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 13 0-4' (H241634-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **128** | 16.0 | 04/01/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **129** | 10.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **168** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.7 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *83.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 14 0-4' (H241634-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **960** | 16.0 | 04/01/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **597** | 10.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **197** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *93.6 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *92.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 15 0-4' (H241634-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *106 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **432** | 16.0 | 04/01/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **1340** | 10.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **508** | 10.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *82.0 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *90.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 03/28/2024 | Sampling Date: | 03/28/2024 |
| Reported: | 04/04/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO | | |

### Sample ID: SW 16 0-4' (H241634-06)

**BTEX 8021B** mg/kg Analyzed By: JH S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.14 | 107 | 2.00 | 3.16 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/02/2024 | ND | 2.09 | 105 | 2.00 | 3.40 | GC-NC |
| Total Xylenes* | <0.150 | 0.150 | 04/02/2024 | ND | 6.34 | 106 | 6.00 | 3.28 | |
| Total BTEX | <0.300 | 0.300 | 04/02/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *165 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: CT

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **208** | 16.0 | 04/01/2024 | ND | 432 | 108 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <50.0 | 50.0 | 04/01/2024 | ND | 229 | 115 | 200 | 4.88 | |
| **DRO >C10-C28*** | **2980** | 50.0 | 04/01/2024 | ND | 235 | 117 | 200 | 7.61 | |
| **EXT DRO >C28-C36** | **1300** | 50.0 | 04/01/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *80.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| GC-NC | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| Company Name: | Ensolum, LLC |
| Project Manager: | Wes Weichert <wweichert@ensolum.com> |
| Address: | 3122 National Parks Hwy |
| City: | Carlsbad State: NM Zip: 88220 |
| Phone #: | 337 257-8307 Fax #: |
| Project #: | 03C1558291 Project Owner: XTO |
| Project Name: | Golden 8-D-B-17 Federal Battery |
| Project Location: | |
| Sampler Name: | Connor Whitman |

**BILL TO**

| | |
|---|---|
| P.O. #: | |
| Company: | XTO Energy Inc. |
| Attn: | Amy Ruth |
| Address: | 3104 E. Green St. |
| City: | Carlsbad |
| State: | NM Zip: 88220 |
| Phone #: | |
| Fax #: | |

**ANALYSIS REQUEST**

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241634-1 | SW11 | 0-4 | C | 1 | | | X | | | | | X | | 3/28/24 | 1030 | | | X |
| 2 | SW12 | | | | | | | | | | | | | | 1035 | | | |
| 3 | SW13 | | | | | | | | | | | | | | 1040 | | | |
| 4 | SW14 | | | | | | | | | | | | | | 1115 | | | |
| 5 | SW15 | | | | | | | | | | | | | | 1105 | | | |
| 6 | SW16 | | | | | | | | | | | | | | 1150 | | | |

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| | | | |
|---|---|---|---|
| Relinquished By: | Date: 3.28.24 Time: 1337 | Received By: | |
| Relinquished By: | Date: Time: | Received By: | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 5.1 Corrected Temp. °C | Sample Condition Cool: Yes / No Intact: Yes / No | CHECKED BY: (Initials) |

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:
<wweichert@ensolum.com>, TMorrissey@ensolum.com

REMARKS: NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856

Cost Center: 1080881001

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113 Correction Factor -0.5°C #140

Bacteria (only) Sample Condition: Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 09, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 17 0-4 (H241744-01)

**BTEX 8021B** mg/kg **Analyzed By: JH**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.14 | 107 | 2.00 | 3.37 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.09 | 105 | 2.00 | 3.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.01 | 101 | 2.00 | 3.27 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 5.83 | 97.2 | 6.00 | 3.51 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *88.9 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: HM**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.0** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg **Analyzed By: MS**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/05/2024 | ND | 218 | 109 | 200 | 2.45 | |
| **DRO >C10-C28*** | **142** | 10.0 | 04/05/2024 | ND | 224 | 112 | 200 | 0.883 | |
| **EXT DRO >C28-C36** | **45.3** | 10.0 | 04/05/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.9 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *101 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 18 0-4 (H241744-02)

**BTEX 8021B** mg/kg **Analyzed By: JH**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.14 | 107 | 2.00 | 3.37 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.09 | 105 | 2.00 | 3.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.01 | 101 | 2.00 | 3.27 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 5.83 | 97.2 | 6.00 | 3.51 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *89.5 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: HM**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg **Analyzed By: MS**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/05/2024 | ND | 218 | 109 | 200 | 2.45 | |
| **DRO >C10-C28*** | **1090** | 10.0 | 04/05/2024 | ND | 224 | 112 | 200 | 0.883 | |
| **EXT DRO >C28-C36** | **595** | 10.0 | 04/05/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *79.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 19 4-10 (H241744-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.14 | 107 | 2.00 | 3.37 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.09 | 105 | 2.00 | 3.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.01 | 101 | 2.00 | 3.27 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 5.83 | 97.2 | 6.00 | 3.51 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *90.2 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **400** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/04/2024 | ND | 214 | 107 | 200 | 6.64 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/04/2024 | ND | 208 | 104 | 200 | 2.99 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *69.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *71.8 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 20 4-10 (H241744-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 4.33 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 1.98 | 98.9 | 2.00 | 3.71 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 6.01 | 100 | 6.00 | 3.90 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **560** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/04/2024 | ND | 214 | 107 | 200 | 6.64 | |
| **DRO >C10-C28*** | **107** | 10.0 | 04/04/2024 | ND | 208 | 104 | 200 | 2.99 | |
| **EXT DRO >C28-C36** | **18.4** | 10.0 | 04/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *87.7 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *94.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 21 10' (H241744-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 4.33 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 1.98 | 98.9 | 2.00 | 3.71 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 6.01 | 100 | 6.00 | 3.90 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *108 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **976** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/04/2024 | ND | 214 | 107 | 200 | 6.64 | |
| **DRO >C10-C28*** | **760** | 10.0 | 04/04/2024 | ND | 208 | 104 | 200 | 2.99 | |
| **EXT DRO >C28-C36** | **170** | 10.0 | 04/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *85.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 22 4' (H241744-06)

**BTEX 8021B** mg/kg **Analyzed By: JH**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 4.33 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 1.98 | 98.9 | 2.00 | 3.71 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 6.01 | 100 | 6.00 | 3.90 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: HM**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **272** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg **Analyzed By: MS**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/05/2024 | ND | 214 | 107 | 200 | 6.64 | |
| **DRO >C10-C28*** | **56.0** | 10.0 | 04/05/2024 | ND | 208 | 104 | 200 | 2.99 | |
| **EXT DRO >C28-C36** | **17.0** | 10.0 | 04/05/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *83.5 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *92.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/03/2024 | Sampling Date: | 04/03/2024 |
| Reported: | 04/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 23 10' (H241744-07)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 4.33 | |
| Toluene* | <0.050 | 0.050 | 04/05/2024 | ND | 2.04 | 102 | 2.00 | 3.86 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/05/2024 | ND | 1.98 | 98.9 | 2.00 | 3.71 | |
| Total Xylenes* | <0.150 | 0.150 | 04/05/2024 | ND | 6.01 | 100 | 6.00 | 3.90 | |
| Total BTEX | <0.300 | 0.300 | 04/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **784** | 16.0 | 04/08/2024 | ND | 432 | 108 | 400 | 3.64 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/05/2024 | ND | 214 | 107 | 200 | 6.64 | |
| **DRO >C10-C28*** | **283** | 10.0 | 04/05/2024 | ND | 208 | 104 | 200 | 2.99 | |
| **EXT DRO >C28-C36** | **70.3** | 10.0 | 04/05/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *82.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *85.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Page 508 of 591



CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Omar Hamdy | **Fax #:** |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL ✓ | OTHER : | DATE | TIME | BTEX | TPH | CHLORIDE | | | | | | | | | | |
| H241744 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SW 17 | 0-4 | | | | | / | | | | | | | 4/3/24 | 8:50 | / | / | / | | | | | | | | | |
| 2 | SW 18 | 0-4 | | | | | / | | | | | | | | 10:40 | / | / | / | | | | | | | | | |
| 3 | SW 19 | 4-10 | | | | | / | | | | | | | | 9:40 | / | / | / | | | | | | | | | |
| 4 | SW 20 | 4-10 | | | | | / | | | | | | | | 12:35 | / | / | / | | | | | | | | | |
| 5 | FS 21 | 10' | | | | | / | | | | | | | | 12:50 | / | / | / | | | | | | | | | |
| 6 | FS 22 | 4' | | | | | / | | | | | | | | 12:55 | / | / | / | | | | | | | | | |
| 7 | FS 23 | 10' | | | | | / | | | | | | | ↓ | 13:30 | / | / | / | | | | | | | | | |

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| | | | |
|---|---|---|---|
| **Relinquished By:** Omar | **Date:** 4/3/24 **Time:** 16:00 | **Received By:** Tamara Oldaker | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| | | | **REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 |
| | | | Cost Center: 1080881001 |

| | | | | | |
|---|---|---|---|---|---|
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 15.9 Corrected Temp. °C | **Sample Condition** Cool: ☐ Yes ☑ No Intact: ☑ Yes ☐ No | **CHECKED BY: (Initials)** | **Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C | **Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ Nc Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C |

#140 to 4/3/24

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

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April 11, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/05/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/04/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 27 10' (H241795-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *117 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **352** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| **DRO >C10-C28*** | **1260** | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| **EXT DRO >C28-C36** | **245** | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *94.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *116 %* *49.1-148*

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/04/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 29 4' (H241795-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *114 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **240** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/09/2024 | ND | 240 | 120 | 200 | 2.92 | |
| **DRO >C10-C28*** | **56.5** | 10.0 | 04/09/2024 | ND | 222 | 111 | 200 | 2.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/09/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.8 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *98.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/04/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 31 18' (H241795-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **576** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/09/2024 | ND | 259 | 129 | 200 | 7.50 | |
| **DRO >C10-C28*** | **11.0** | 10.0 | 04/09/2024 | ND | 255 | 127 | 200 | 2.96 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/09/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *93.4 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *86.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Page 514 of 591



CARDINAL Laboratories
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Omar Hamdy | **Fax #:** |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241795 | | | | | | | | | | | | | | | | | | |
| 1 | FS 27 | 10' | | | | | ✓ | | | | | | | 4/4/24 | 8:45 | ✓ | ✓ | ✓ |
| 2 | FS 29 | 4' | | | | | ✓ | | | | | | | 4/4/24 | 8:55 | ✓ | ✓ | ✓ |
| 3 | FS 31 | 18' | | | | | ✓ | | | | | | | 4/4/24 | 13:00 | ✓ | ✓ | ✓ |

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| | | | |
|---|---|---|---|
| **Relinquished By:** Omar Hamdy | **Date:** 4/5/24 **Time:** 1400 | **Received By:** Tamara Oldaker | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |

**REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856

Cost Center: 1080881001

| | | | | |
|---|---|---|---|---|
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 14.1 Corrected Temp. °C | **Sample Condition** Cool: ☐ Yes ☑ No Intact: ☑ Yes ☐ No | **CHECKED BY: (Initials)** TO | **Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #113 #140 Correction Factor -0.5°C |

**Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

TO 4/5/24

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 11, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/05/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/05/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 11 0-4' (H241794-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| **DRO >C10-C28*** | **102** | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| **EXT DRO >C28-C36** | **30.5** | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *77.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *82.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/05/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 21 0-4' (H241794-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *114 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **48.0** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *85.6 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *89.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/05/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 23 0-4' (H241794-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **400** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| **DRO >C10-C28*** | **51.7** | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.2 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *89.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/05/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 22 0-4' (H241794-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *114 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **416** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| **DRO >C10-C28*** | **17.9** | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *80.9 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *84.4 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/05/2024 | Sampling Date: | 04/05/2024 |
| Reported: | 04/11/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: F I5 A 10' (H241794-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.04 | 102 | 2.00 | 2.53 | |
| Toluene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.18 | 109 | 2.00 | 2.79 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/09/2024 | ND | 2.23 | 112 | 2.00 | 3.81 | |
| Total Xylenes* | <0.150 | 0.150 | 04/09/2024 | ND | 6.68 | 111 | 6.00 | 3.64 | |
| Total BTEX | <0.300 | 0.300 | 04/09/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1180** | 16.0 | 04/09/2024 | ND | 448 | 112 | 400 | 7.41 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/08/2024 | ND | 240 | 120 | 200 | 2.92 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/08/2024 | ND | 222 | 111 | 200 | 2.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/08/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *93.7 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *99.0 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 522 of 591



# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Omar Hamdy | **Fax #:** |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | ANALYSIS REQUEST: BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241794 | OH 4/5/24 | | | | | | | | | | | | | | | | | |
| | FS ~~07~~ | ~~10'~~ | | | | | ✓ | | | | | | | 4/4/24 | 8:45 | | | |
| | FS ~~08~~ 09 | ~~4'~~ | | | | | ✓ | | | | | | | 4/4/24 | 8:55 | | | |
| | FS ~~09~~ 21 | 18' | | | | | ✓ | | | | | | | 4/4/24 | 13:00 | | | |
| 1 | SW 11 | 0-4' | | | | | ✓ | | | | | | | 4/5/24 | 8:25 | | | |
| 2 | SW 21 | 0-4' | | | | | ✓ | | | | | | | 4/5/24 | 8:55 | | | |
| 3 | SW 23 | 0-4' | | | | | ✓ | | | | | | | 4/5/24 | 9:40 | | | |
| 4 | SW 22 | 0-4' | | | | | ✓ | | | | | | | 4/5/24 | 10:50 | | | |
| 5 | FS 15 A | 10' | | | | | ✓ | | | | | | | 4/5/24 | 12:20 | | | |

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| | | | |
|---|---|---|---|
| **Relinquished By:** Omar Hamdy | **Date:** 4/5/24 **Time:** 1400 | **Received By:** | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| | | | **All Results are emailed. Please provide Email address:** <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | **REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 Cost Center: 1080881001 |

| | | | | |
|---|---|---|---|---|
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 13.4 Corrected Temp. °C | **Sample Condition** Cool: ☐ Yes ☑ No Intact: ☑ Yes ☐ No | **CHECKED BY: (Initials)** TB | **Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #113 ~~#113~~ #140 Correction Factor ~~0.5°C~~ TB 4/5/24 |

**Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C**

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 18, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/12/24 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/11/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 12A 15' (H241940-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.16 | 108 | 2.00 | 3.91 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.17 | 109 | 2.00 | 3.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.23 | 111 | 2.00 | 1.50 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.74 | 112 | 6.00 | 0.737 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *116 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **912** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *89.7 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *105 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/11/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 24 0-4' (H241940-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.16 | 108 | 2.00 | 3.91 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.17 | 109 | 2.00 | 3.43 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.23 | 111 | 2.00 | 1.50 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.74 | 112 | 6.00 | 0.737 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *103 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *81.0 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *97.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/11/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 27A 15' (H241940-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **656** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *78.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *95.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/12/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 34 4' (H241940-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *103 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **544** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| **DRO >C10-C28*** | **36.6** | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| **EXT DRO >C28-C36** | **10.9** | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *81.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *96.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/12/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 35 4' (H241940-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **304** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| **DRO >C10-C28*** | **71.5** | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| **EXT DRO >C28-C36** | **19.5** | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.5 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *103 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/12/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 11 0-4' (H241940-06)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **96.0** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| **DRO >C10-C28*** | **382** | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| **EXT DRO >C28-C36** | **264** | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *116 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/12/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: FS 33 18' (H241940-07)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *104 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **640** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| **DRO >C10-C28*** | **12.9** | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *79.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *89.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 04/12/2024 | Sampling Date: | 04/12/2024 |
| Reported: | 04/18/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO | | |

### Sample ID: SW 13 0-4' (H241940-08)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.13 | 107 | 2.00 | 1.50 | |
| Toluene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.15 | 108 | 2.00 | 0.620 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/15/2024 | ND | 2.09 | 105 | 2.00 | 0.892 | |
| Total Xylenes* | <0.150 | 0.150 | 04/15/2024 | ND | 6.25 | 104 | 6.00 | 1.84 | |
| Total BTEX | <0.300 | 0.300 | 04/15/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 04/15/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 04/15/2024 | ND | 187 | 93.4 | 200 | 0.0889 | |
| **DRO >C10-C28*** | **179** | 10.0 | 04/15/2024 | ND | 185 | 92.7 | 200 | 1.70 | |
| **EXT DRO >C28-C36** | **184** | 10.0 | 04/15/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *81.4 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Page 533 of 591



CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** |
| **Sampler Name:** Omar Hamdy | **Fax #:** |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | BTEX | TPH | CHLORIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H241940 | | | | | | | | | | | | | | | | | | |
| 1 | FS 12A | 15' | | | | | X | | | | | | | 4/11/24 | 9:50 | X | X | X |
| 2 | SW 24 | 0-4' | | | | | X | | | | | | | 4/11/24 | 12:50 | X | X | X |
| 3 | FS 27A | 15' | | | | | X | | | | | | | 4/11/24 | 13:10 | X | X | X |
| 4 | FS 34 | 4' | | | | | X | | | | | | | 4/12/24 | 9:20 | X | X | X |
| 5 | FS 35 | 4' | | | | | X | | | | | | | 4/12/24 | 9:25 | X | X | X |
| 6 | SW 11 | 0-4' | | | | | X | | | | | | | 4/12/24 | 12:05 | X | X | X |
| 7 | FS 33 | 18' | | | | | X | | | | | | | 4/12/24 | 10:30 | X | X | X |
| 8 | SW 13 | 0-4' | | | | | X | | | | | | | 4/12/24 | 12:20 | X | X | X |
| | | | | | | | | | | | | | | | | | | OTH |

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| | | | |
|---|---|---|---|
| **Relinquished By:** Omar | **Date:** 4/12/24 **Time:** 1450 | **Received By:** Tamara Alda Kyle | |
| **Relinquished By:** | **Date:** **Time:** | **Received By:** | |
| **Delivered By: (Circle One)** Sampler - UPS - Bus - Other: | Observed Temp. °C 1.1 Corrected Temp. °C | **Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No | **CHECKED BY: (Initials)** TO |

**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**

**All Results are emailed. Please provide Email address:**
<wweichert@ensolum.com>, TMorrissey@ensolum.com

**REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856

Cost Center: 1080881001

**Turnaround Time:** Standard ☑ Rush ☐

Thermometer ID ~~#113~~ #140 Correction Factor ~~0.5°C~~ -0.4 4/12/24

**Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C**

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 09, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/03/24 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 25 0-4' (H242405-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.87 | 93.6 | 2.00 | 0.698 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.93 | 96.4 | 2.00 | 0.238 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.97 | 98.5 | 2.00 | 0.288 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.73 | 95.5 | 6.00 | 0.146 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.8 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **66.3** | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *107 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *104 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 26 0-4' (H242405-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.87 | 93.6 | 2.00 | 0.698 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.93 | 96.4 | 2.00 | 0.238 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.97 | 98.5 | 2.00 | 0.288 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.73 | 95.5 | 6.00 | 0.146 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *100 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **112** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *110 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *105 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 27 0-4' (H242405-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.87 | 93.6 | 2.00 | 0.698 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.93 | 96.4 | 2.00 | 0.238 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.97 | 98.5 | 2.00 | 0.288 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.73 | 95.5 | 6.00 | 0.146 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *100 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **240** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *108 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 28 0-4' (H242405-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.87 | 93.6 | 2.00 | 0.698 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.93 | 96.4 | 2.00 | 0.238 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.97 | 98.5 | 2.00 | 0.288 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.73 | 95.5 | 6.00 | 0.146 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.5 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *89.5 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *85.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 29 0-4' (H242405-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.87 | 93.6 | 2.00 | 0.698 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.93 | 96.4 | 2.00 | 0.238 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.97 | 98.5 | 2.00 | 0.288 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.73 | 95.5 | 6.00 | 0.146 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.3 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *103 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *99.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

1 of 1

# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Wes Weichert
Address: 601 N Marienfeld Street, Suite 400
City: Midland State: TX Zip: 79701
Phone #: 816-266-8732 Fax #:
Project #: 03C1558291 Project Owner: XTO
Project Name: Golden 8-D-B-17 Federal Battery
Project Location: 32.491441, -104.00799
Sampler Name: Tracy Hillard

**BILL TO**
P.O. #:
Company: XTO Energy
Attn: Amy Ruth
Address: 3104 E. Green St
City: Carlsbad
State: NM Zip: 88220
Phone #: 432-661-0571
Fax #:

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H24240 | | | | | | | | | | | | ✓ | | | | | | |
| 1 | SW25 | 0-4 | C | 1 | | | X | | | | | X | | 5.2.24 | 1030 | X | X | X |
| 2 | SW26 | 0-4 | " | 1 | | | " | | | | | " | | " | 1240 | " | " | " |
| 3 | SW27 | 0-4 | " | 1 | | | " | | | | | " | | " | 1250 | " | " | " |
| 4 | SW28 | 0-4 | " | 1 | | | " | | | | | " | | " | 1255 | " | " | " |
| 5 | SW29 | 0-4 | " | 1 | | | " | | | | | " | | " | 1330 | " | " | " |

TH

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Relinquished By: Date: 5/3/24 Time: 0700 Received By:
Relinquished By: Date: 5/3/24 Time: 1150 Received By:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.2 Corrected Temp. °C
Sample Condition Cool ☑ Yes ☑ ~~Yes~~ Intact ☐ No ☐ No
CHECKED BY: (Initials) AP

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address: WWeichert@ensolum.com
BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
REMARKS:
Cost center: 1080881001
Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113 MD
Correction Factor ~~-0.5~~ °C
Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 09, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/03/24 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 05 4' (H242406-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *92.6 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **672** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/03/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **43.0** | 10.0 | 05/03/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| **EXT DRO >C28-C36** | **48.5** | 10.0 | 05/03/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *110 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *106 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 25 15' (H242406-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *91.7 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **416** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **25.0** | 10.0 | 05/04/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *95.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *91.7 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 26 10' (H242406-03)

**BTEX 8021B** mg/kg Analyzed By: JH S-04

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/05/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/05/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/05/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | GC-NC |
| Total Xylenes* | <0.150 | 0.150 | 05/05/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/05/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *170 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **224** | 16.0 | 05/07/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **GRO C6-C10*** | **37.1** | 10.0 | 05/04/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **2430** | 10.0 | 05/04/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| **EXT DRO >C28-C36** | **548** | 10.0 | 05/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *115 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *122 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 24 10' (H242406-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *93.0 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **816** | 16.0 | 05/07/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **360** | 10.0 | 05/04/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| **EXT DRO >C28-C36** | **122** | 10.0 | 05/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *112 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 32 10' (H242406-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *91.8 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **544** | 16.0 | 05/07/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| **DRO >C10-C28*** | **246** | 10.0 | 05/04/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| **EXT DRO >C28-C36** | **70.0** | 10.0 | 05/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *104 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/03/2024 | Sampling Date: | 05/02/2024 |
| Reported: | 05/09/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 30 10' (H242406-06)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.0 | 2.00 | 1.33 | |
| Toluene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.96 | 97.9 | 2.00 | 1.56 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/04/2024 | ND | 1.94 | 97.2 | 2.00 | 2.08 | |
| Total Xylenes* | <0.150 | 0.150 | 05/04/2024 | ND | 5.71 | 95.2 | 6.00 | 2.17 | |
| Total BTEX | <0.300 | 0.300 | 05/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *91.9 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1070** | 16.0 | 05/07/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/04/2024 | ND | 196 | 98.2 | 200 | 2.76 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/04/2024 | ND | 195 | 97.3 | 200 | 0.380 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *104 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| GC-NC | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

1 of 1

# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| Company Name: | Ensolum, LLC |
| Project Manager: | Wes Weichert |
| Address: | 601 N. Marienfeld St. STE 400 |
| City: | Midland State: TX Zip: 79701 |
| Phone #: | 816-366-8732 Fax #: |
| Project #: | 03C1558291 Project Owner: XTO |
| Project Name: | Golden 8-D-B-17 Federal Battery |
| Project Location: | 32.491441, -104.00799 |
| Sampler Name: | Tracy Hillard |

**BILL TO**

| | |
|---|---|
| P.O. #: | |
| Company: | XTO Energy |
| Attn: | Amy Ruth |
| Address: | 3104 E. Greene |
| City: | Carlsbad |
| State: | NM Zip: 88220 |
| Phone #: | 432-661-0571 |
| Fax #: | |

**ANALYSIS REQUEST**

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Sample Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | PRESERV.: ACID/BASE: | ICE / COOL | OTHER: | SAMPLING: DATE | TIME | TPH | BTEX | Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H247106 | | | | | | | | | | | | | | | | | | |
| 1 | FS05 | 4 | C | 1 | | | X | | | | | X | | 5.2.24 | 1115 | X | X | X |
| 2 | FS25 | 15 | " | 1 | | | " | | | | | " | | " | 1345 | " | " | " |
| 3 | FS26 | 10 | " | 1 | | | " | | | | | " | | " | 1355 | " | " | " |
| 4 | FS24 | 10 | " | 1 | | | " | | | | | " | | " | 1400 | " | " | " |
| 5 | FS32 | 10 | " | 1 | | | " | | | | | " | | " | 1405 | " | " | " |
| 6 | FS30 | 10 | " | 1 | | | " | | | | | " | | " | 1410 | " | " | " |

TH

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| | | | |
|---|---|---|---|
| Relinquished By: | Date: 5/3/24 Time: 0700 | Received By: | |
| Relinquished By: | Date: 5/3/24 Time: 1150 | Received By: | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 4.2 Corrected Temp. °C | Sample Condition: Cool Yes / Intact Yes | CHECKED BY: (Initials) |

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:
~~BJennings@ensolum.com~~ WWeichert@ensolum.com
THillard@ensolum.com

REMARKS:

Cost Center: 1080881001

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113 140

Correction Factor ~~0.5°C~~

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No / Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

Received by OCD: 4/14/2026 3:17:09 PM

Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 10, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/06/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 28 4 (H242432-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **224** | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| **DRO >C10-C28*** | **187** | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| **EXT DRO >C28-C36** | **73.4** | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *92.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 36 4 (H242432-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *105 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **64.0** | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *94.6 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *115 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 32 0-4 (H242432-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *106 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *91.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *115 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 31 0-4 (H242432-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *108 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *98.3 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *122 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: SW 30 0-4 (H242432-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *108 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *98.9 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *121 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 05/06/2024 | Sampling Date: | 05/03/2024 |
| Reported: | 05/10/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 20 4 (H242432-06)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.04 | 102 | 2.00 | 0.955 | |
| Toluene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.10 | 105 | 2.00 | 1.58 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/07/2024 | ND | 2.06 | 103 | 2.00 | 1.99 | |
| Total Xylenes* | <0.150 | 0.150 | 05/07/2024 | ND | 6.33 | 106 | 6.00 | 1.28 | |
| Total BTEX | <0.300 | 0.300 | 05/07/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *107 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: HM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.0** | 16.0 | 05/08/2024 | ND | 416 | 104 | 400 | 3.77 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 05/07/2024 | ND | 203 | 102 | 200 | 5.26 | |
| DRO >C10-C28* | <10.0 | 10.0 | 05/07/2024 | ND | 199 | 99.5 | 200 | 3.94 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 05/07/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *101 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *123 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| **Company Name:** Ensolum, LLC | **BILL TO** |
| **Project Manager:** Wes Weichert <wweichert@ensolum.com> | **P.O. #:** |
| **Address:** 3122 National Parks Hwy | **Company:** XTO Energy Inc. |
| **City:** Carlsbad **State:** NM **Zip:** 88220 | **Attn:** Amy Ruth |
| **Phone #:** 337 257-8307 **Fax #:** | **Address:** 3104 E. Green St. |
| **Project #:** 03C1558291 **Project Owner:** XTO | **City:** Carlsbad |
| **Project Name:** Golden 8-D-B-17 Federal Battery | **State:** NM **Zip:** 88220 |
| **Project Location:** | **Phone #:** 432-661-0571 |
| **Sampler Name:** ~~Connor Whitman~~ Tracy Hillard | **Fax #:** |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab I.D.** | **Sample I.D.** | **Sample Depth (feet)** | **(G)RAB OR (C)OMP.** | **# CONTAINERS** | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | **DATE** | **TIME** | BTEX | TPH | CHLORIDE | | | | | | | | | | |
| H242137 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FS28 | 4 | C | 1 | | | X | | | | | X | | 5.3.24 | 0820 | X | X | X | | | | | | | | | | |
| 2 | FS36 | 4 | C | 1 | | | \| | | | | | \| | | \| | 1100 | \| | \| | \| | | | | | | | | | | |
| 3 | SW32 | 0-4 | C | 1 | | | \| | | | | | \| | | \| | 1105 | \| | \| | \| | | | | | | | | | | |
| 4 | SW31 | 0-4 | C | 1 | | | \| | | | | | \| | | \| | 1110 | \| | \| | \| | | | | | | | | | | |
| 5 | SW30 | 0-4 | C | 1 | | | \| | | | | | \| | | \| | 1115 | \| | \| | \| | | | | | | | | | | |
| 6 | FS20 | 4 | C | 1 | | | \| | | | | | \| | | \| | 1120 | \| | \| | \| | | | | | | | | | | |

TH

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| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 5.6.24 | **Received By:** | **Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:** |
| | **Time:** 1510 | | **All Results are emailed. Please provide Email address:** |
| | | | <wweichert@ensolum.com>, TMorrissey@ensolum.com |
| **Relinquished By:** | **Date:** | **Received By:** | **REMARKS:** NKMW1035646177,NAB1422637219, nKMW1106629393,NJMW1333053660 NAB1815749653, NAB1929041495,NAB1607837012, NAB1803638613, NAB1633656856 |
| | **Time:** | | Cost Center: 1080881001 |

| | | | | |
|---|---|---|---|---|
| **Delivered By: (Circle One)** | Observed Temp. °C 4.5 | **Sample Condition** | **CHECKED BY: (Initials)** | **Turnaround Time:** Standard ☑ Rush ☐ |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C 4.8 | Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No | AP | Thermometer ID #113 140 Correction Factor -0.5°C |

**Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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Released to Imaging: 4/21/2026 9:41:19 AM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 05, 2024

WES WEICHERT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: GOLDEN 8-D-B-17 FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

ENSOLUM
WES WEICHERT
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

| | | | |
|---|---|---|---|
| Received: | 06/04/2024 | Sampling Date: | 06/03/2024 |
| Reported: | 06/05/2024 | Sampling Type: | Soil |
| Project Name: | GOLDEN 8-D-B-17 FEDERAL BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558291 | Sample Received By: | Tamara Oldaker |
| Project Location: | XTO 32.491441,-104.00799 | | |

### Sample ID: FS 26 13' (H243139-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 06/04/2024 | ND | 2.06 | 103 | 2.00 | 1.40 | |
| Toluene* | <0.050 | 0.050 | 06/04/2024 | ND | 2.21 | 111 | 2.00 | 0.368 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/04/2024 | ND | 2.23 | 112 | 2.00 | 1.64 | |
| Total Xylenes* | <0.150 | 0.150 | 06/04/2024 | ND | 6.83 | 114 | 6.00 | 2.00 | |
| Total BTEX | <0.300 | 0.300 | 06/04/2024 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *107 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **320** | 16.0 | 06/05/2024 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 06/04/2024 | ND | 190 | 95.0 | 200 | 0.789 | |
| **DRO >C10-C28*** | **39.7** | 10.0 | 06/04/2024 | ND | 184 | 91.9 | 200 | 0.999 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 06/04/2024 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *85.1 %* *48.2-134*

*Surrogate: 1-Chlorooctadecane* *86.3 %* *49.1-148*

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Page 563 of 591



# CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | |
|---|---|
| Company Name: Ensolum, LLC | **BILL TO** |
| Project Manager: Wes Weichert | P.O. #: |
| Address: 601 N Marienfeld Street, Suite 400 | Company: XTO Energy |
| City: Midland State: TX Zip: 79701 | Attn: Amy Ruth |
| Phone #: 816-266-8732 Fax #: | Address: 3104 Greene |
| Project #: 031558291 Project Owner: XTO | City: Carlsbad |
| Project Name: Golden 8-D-B-17 Fed Battery | State: NM Zip: 88220 |
| Project Location: 32.49141, -104.00799 | Phone #: 432-661-0571 |
| Sampler Name: Tracy Hillard | Fax #: |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | ANALYSIS REQUEST: TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H243139-1 | FS26 | 13' | C | 1 | | | X | | | | | X | | 6.3.24 | 0930 | X | X | X |

TH

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| | | | |
|---|---|---|---|
| Relinquished By: | Date: 6-4-24 | Received By: | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| | Time: 1420 | | All Results are emailed. Please provide Email address: WWeichert@ensolum.com |
| Relinquished By: | Date: | Received By: | BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com |
| | Time: | | REMARKS: Cost center: 1080881001 |

| | | | | |
|---|---|---|---|---|
| Delivered By: (Circle One) | Observed Temp. °C 23 | Sample Condition Cool / Intact | CHECKED BY: (Initials) | Turnaround Time: Standard ☒ Rush ☐ TH |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C | ☑ Yes ☑ Yes ☐ No ☐ No | | Thermometer ID #113 Correction Factor -0.5°C 24 hr rush |

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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ENSOLUM

# APPENDIX G

October 21, 2024
*Reclamation Summary*

ENSOLUM

October 21, 2024

**Bureau of Land Management**
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico, 88220

**Re: Reclamation Summary**
**Golden 8 Federal 001**
**Eddy County, New Mexico**

To Whom It May Concern,

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Reclamation Summary* for the Golden 8 Federal 001 well pad (Site; Figure 1). This *Reclamation Summary* documents the Site history and completed reclamation activities, and proposes vegetation monitoring activities.

## SITE INFORMATION

Operator: XTO Energy, Inc.

Well Name: Golden 8 Federal 001

API Number: 30-015-26931

GPS Coordinates: 32.4912491, -104.0083542

Location: Unit K, Section 8, Township 21S, Range 29E, Eddy County, New Mexico

Landowner: Federal – Bureau of Land Management (BLM)

## SITE HISTORY

- The Golden 8 Federal 001 well is an oil and gas well that was in production between December 1992 and December 2009.
- The well was plugged and abandoned on July 29, 2011, in accordance with the procedures provided in the approved Form C-103, *Sundry Notices and Reports on Wells*.
- A review of the New Mexico Oil Conservation Division (NMOCD) well records and available historical satellite imagery was completed.
    - No pits were documented in the NMOCD well records. No pits were identified during a review of historical satellite imagery.
    - The following releases at the Site were reported to the NMOCD between 2010 and 2018:
        - Incident Number NKMW1035646177 occurred on June 14, 2010, and has a current NMOCD status of: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator.



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- Incident Number NMLB1031249564 occurred on October 6, 2010, and was approved for closure by the NMOCD on January 16, 2015.
- Incident Number NKMW1106629393 occurred on February 16, 2011, and has a current NMOCD status of: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NJMW1333053660 occurred on November 25, 2013, and has a current NMOCD status of: Deferral Request Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NAB1422637219 occurred on August 12, 2014, and has a current NMOCD status of: Deferral Request Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NAB1607837012 occurred on February 1, 2016, and has a current NMOCD status of: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NAB1633656856 occurred on November 26, 2016, and has a current NMOCD status of: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NAB1803638613 occurred on January 18, 2018, and has a current NMOCD status of: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator.
- Incident Number NAB1815749653 occurred on May 14, 2018, and has a current NMOCD status of: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator.

  - A copy of the NMOCD Site summary is included in Appendix A.

## 2024 REMEDIATION ACTIVITIES

To address outstanding deferrals and releases at the site, soil excavation was completed between March and June 2024. Two separate excavations were completed: one measured approximately 2,500 square feet and the other measured approximately 1,200 square feet. Both excavations reached depths of up to 20 feet. In total, approximately 2,750 cubic yards of impacted soil were removed from the Site and disposed of at an NMOCD approved-landfill.

A *Closure Request* report for the above-listed releases is in process and will be submitted to the NMOCD and BLM. The *Closure Request* will detail the remediation activities completed at the Site and provide confirmation soil sample analytical results.

## RECLAMATION ACTIVITIES

- Upon completion of remediation activities, Site reclamation proceeded. Photographs of the Site reclamation activities are included in Appendix B.
  - The reclaimed well pad area is presented on Figure 2.
  - The Site is accessed by an active lease road that will remain in-place to access other wells in the area.
  - All surface production equipment, trash, and debris were removed from the Site.

  - The plugged and abandoned well bore was marked with a steel well marker.
  - The African Rue identified at the Site was pushed into the bottom of the open remediation excavation.
  - The remaining caliche was stripped from the well pad and removed from the Site or used as backfill in the deeper portions of the remediation excavation.
  - The top four feet of the remediation excavations were backfilled with locally procured topsoil.
  - The well pad was recontoured to match the surrounding topography.
- The well pad will be seeded during October 2024 with the below BLM sandy sites seed mix #2 at the rate specified in pounds of pure live seed (PLS) per acre. Seed species will include:

| Species/Cultivar | PLS/Acre |
|---|---|
| Sand dropseed (*Sporobolus cryptandrus*) | 1.0 |
| Sand love grass (*Eragrostis trichodes*) | 1.0 |
| Plains bristlegrass (*Setaria macrostachya*) | 2.0 |

- The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site.
- The reclaimed areas were fenced to prevent livestock and wildlife from impacting vegetation establishment.
- The well pad was bermed at the entrance to discourage vehicles from entering the reclaimed areas. Seed will be broadcast on the berm to encourage stabilization.
- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Reclamation activities were documented with photographs that were timestamped with Global Positioning System (GPS) data in decimal degrees.

## RECLAMATION MONITORING

- The Site will be monitored for vegetation growth to verify that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.
  - In the event erosion control management is necessary to support vegetation growth and minimize erosion until the root structures take hold, the following best management practices (BMPs) may be applied:
    - Placement of waddles in areas with a propensity for high run off rates;
    - Straw cover, if high winds are anticipated, to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
    - Other erosional control BMPs as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
  - Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.
- Annual inspections (at a minimum) will take place at the location until revegetation is consistent with local natural vegetation density.

- Upon completion of revegetation, a Final Abandonment Notice (FAN), Form 3160-5, will be submitted to the BLM for final inspection and release.

If you have any questions or comments regarding this document, please contact the undersigned.

Sincerely,
**Ensolum, LLC**

Wesley Weichert, PG
Project Geologist
(816) 266-8732
wweichert@ensolum.com

Tacoma Morrissey
Senior Managing Geologist
(337) 257-8307
tmorrissey@ensolum.com

cc: Amy Ruth, XTO Energy, Inc.

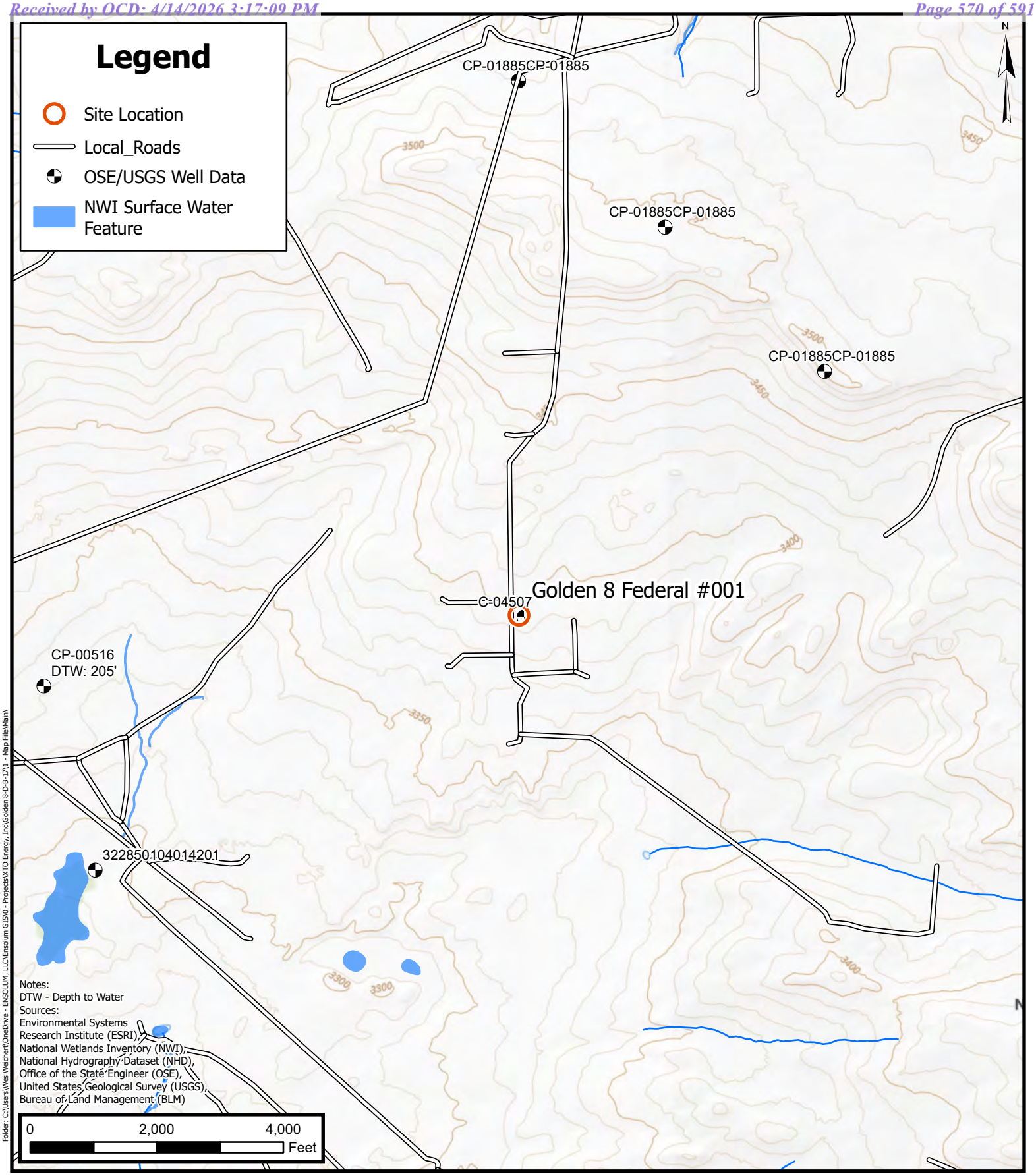
**Appendices:**

Figure 1 Site Location Map
Figure 2 Well Pad Reclamation Area

Appendix A NMOCD Site Summary
Appendix B Photographic Log

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# FIGURES

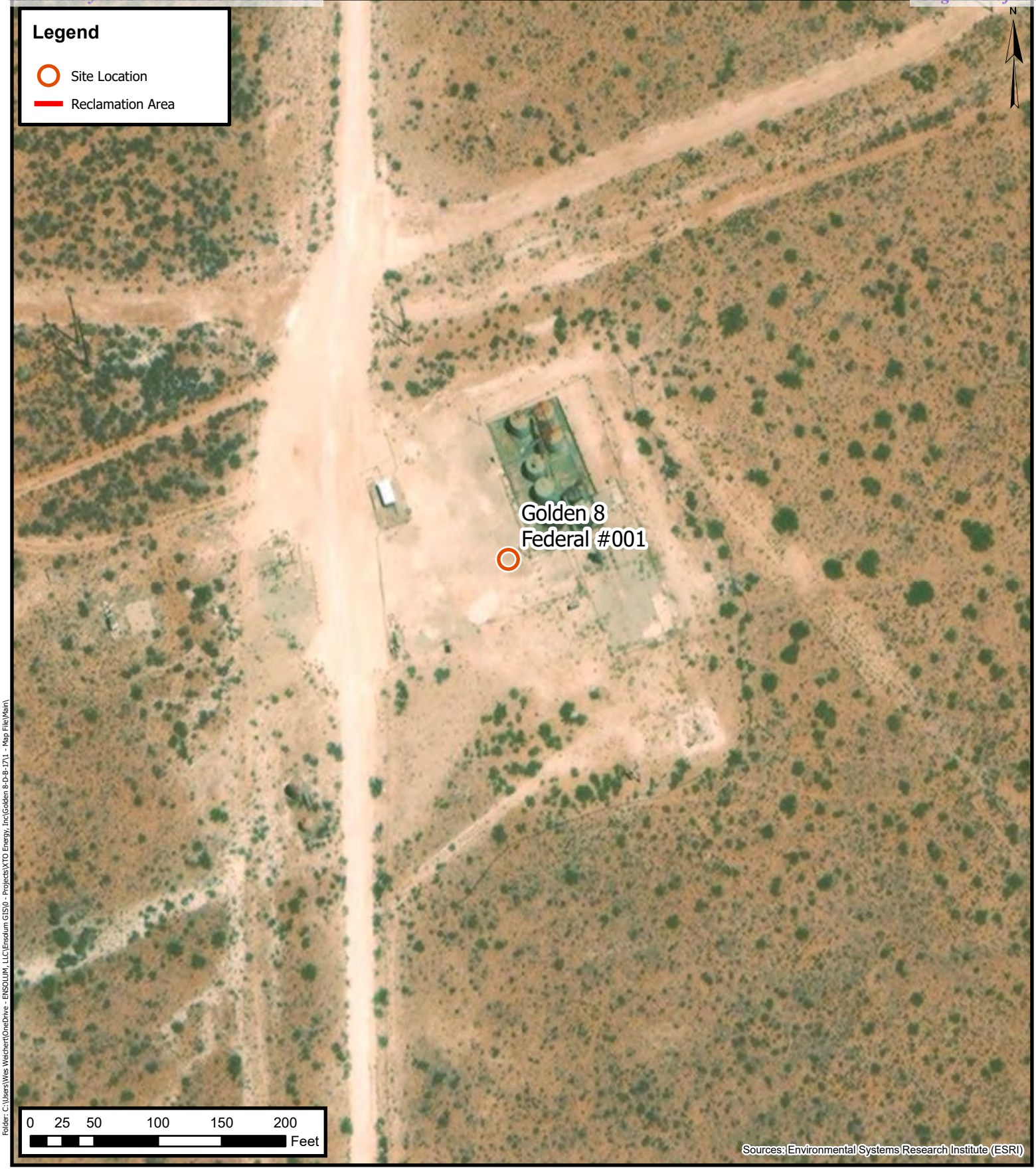



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Environmental, Engineering and Hydrogeologic Consultants

# Site Location Map

XTO Energy, Inc
Golden 8-D-B-17 Federal Battery
API: 30-015-26931
32.491441, -104.00799
Eddy Co, New Mexico, United States

**FIGURE 1**




Folder: C:\Users\Wes Welchert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\Golden 8-D-B-17\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Well Pad Reclamation Area

XTO Energy, Inc
Golden 8 Federal #001
Unit K, Section 08, T 21S, R 29E
Eddy County, New Mexico

**FIGURE 2**

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# APPENDIX A

# OCD Permitting



## 30-015-26931 GOLDEN 8 FEDERAL #001 [306396]

### General Well Information

| | | | |
|---|---|---|---|
| **Operator:** | [260737] BOPCO, L.P. | | |
| **Status:** | Plugged, Site Released | **Direction:** | Vertical |
| **Well Type:** | Oil | **Multi-Lateral:** | No |
| **Work Type:** | New | **Mineral Owner:** | Federal |
| | | **Surface Owner:** | Federal |
| **Surface Location:** | K-08-21S-29E 1650 FSL 2180 FWL | | |
| **Lat/Long:** | 32.4912491,-104.0083542 NAD83 | | |
| **GL Elevation:** | 3390 | | |
| **KB Elevation:** | | **Sing/Mult Compl:** | Single |
| **DF Elevation:** | | **Potash Waiver:** | False |

**Proposed Formation and/or Notes**

PA 07/29/11 BLM

**Depths**

| | | | |
|---|---|---|---|
| **Proposed:** | 0 | **True Vertical Depth:** | 6800 |
| **Measured Vertical Depth:** | 6800 | **Plugback Measured:** | 0 |

**Formation Tops**

| Formation | Top | Producing | Method Obtained |
|---|---|---|---|

**Event Dates**

| | | | |
|---|---|---|---|
| **Initial APD Approval:** | 05/01/1992 | | |
| **Most Recent APD Approval:** | 01/01/2009 | **Current APD Expiration:** | 05/01/1994 |
| **APD Cancellation:** | | | |
| **APD Extension Approval:** | | | |
| **Spud:** | | **Gas Capture Plan Received:** | |
| **Approved Temporary Abandonment:** | | **TA Expiration:** | |
| **Shut In:** | | | |
| **Plug and Abandoned Intent Received:** | | **PNR Expiration:** | |
| | | **Last MIT/BHT:** | |
| **Well Plugged:** | 07/29/2011 | | |
| **Site Release:** | | | |
| **Last Inspection:** | 03/02/2010 | | |

### History

| Effective Date | Property | Well Number | Operator | C-101 Work Type | Well Type | Well Status | Apd Cancelled | Plug Date |
|---|---|---|---|---|---|---|---|---|
| 01/01/2009 | [306396] GOLDEN 8 FEDERAL | #001 | [260737] BOPCO, L.P. | New | Oil | Plugged, Site Released | | 07/29/2011 |
| 05/01/1992 | [1781] GOLDEN 8 FEDERAL | #001 | [1801] BEPCO, LP | New | Oil | Active | | |

Quic
- Gene
- Histor
- Comn
- Opera
- Pits
- Casin
- Well C
- Finan
- Comp
- Repor
- Order
- Produ
- Trans
- Points
- Actior

Asso
- Well F
- Well L
- Well A

New
- New F
- New I
- New C
- New F
- New S
- New T
- New V

## Pits

No Pits Found

## Casing

| String/Hole Type | Taper | Date Set | Boreholes, Strings and Equipment Specifications: Diameter | Top | Bottom (Depth) | Specifications for Strings and Tubing: Grade | Length | Weight | Strings Cemented and Intervals: Bot of Cem | Top of Cem | Meth | Cement and Plug Description: Class of Cement | Sacks | Pressure Test (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hole 1 | 1 | | 8.625 | 0 | 810 | | 0 | 0.0 | 0 | 0 | | | 0 | No |
| Surface Casing | 1 | | 8.625 | 0 | 810 | | 810 | 24.0 | 810 | 0 | | Class C Cement | 480 | No |
| Hole 2 | 1 | | 7.000 | 0 | 3165 | | 0 | 0.0 | 0 | 0 | | | 0 | No |
| Intermediate 1 Casing | 1 | | 7.000 | 0 | 3165 | | 3165 | 29.0 | 3165 | 0 | | Class C Cement | 200 | No |
| Hole 3 | 1 | | 4.500 | 0 | 6800 | | 0 | 0.0 | 0 | 0 | | | 0 | No |
| Production Casing | 1 | | 4.500 | 0 | 6800 | | 6800 | 11.6 | 6800 | 0 | | Class C Cement | 1225 | No |
| Packer | 1 | | 4.500 | 4195 | 4200 | | 5 | 0.0 | 0 | 0 | | | 0 | No |
| Tubing 1 | 1 | | 2.375 | 0 | 4195 | | 4195 | 0.0 | 0 | 0 | | | 0 | No |

## Well Completions

### [28340] GOLDEN LANE; DELAWARE, SOUTH

**Status:** Zone Permanently Plugged
**Last Produced:** 12/01/2009
**Bottomhole Location:** K-08-21S-29E 1650 FSL 2180 FWL
**Lat/Long:**
**Acreage:**
**DHC:** No
**Consolidation Code:**
**Production Method:** Flowing

#### Well Test Data

**Production Test:**
**Test Length:** 0 hours
**Flowing Tubing Pressure:** 0 psi
**Flowing Casing Pressure:** 0 psi
**Choke Size:** 0.000 inches
**Testing Method:**
**Gas Volume:** 0.0 MCF
**Oil Volume:** 0.0 bbls
**Gas-Oil Ratio:** 0 Kcf / bbl
**Oil Gravity:** 0.0 Corr. API
**Disposition of Gas:**
**Water Volume:** 0.0 bbls

#### Perforations

| Date | Top Measured Depth (Where Completion Enters Formation) | Bottom Measured Depth (End of Lateral) | Top Vertical Depth | Bottom Vertical Depth |
|---|---|---|---|---|
| | 3842 | 6550 | 0 | 0 |

**Notes**

**Event Dates**

| | | | |
|---|---|---|---|
| **Initial Effective/Approval:** | 05/01/1992 | | |
| **Most Recent Approval:** | 07/29/2011 | **TA Expiration:** | |
| **Confidential Requested On:** | | **Confidential Until:** | |
| **Test Allowable Approval:** | | **Test Allowable End:** | |
| **TD Reached:** | | **DHC:** | |
| **Deviation Report Received:** | No | **Rig Released:** | |
| **Directional Survey Run:** | No | **Logs Received:** | No |
| **Directional Survey Received:** | No | **Closure Pit Plat Received:** | |
| **First Oil Production:** | 05/01/1992 | **First Gas Production:** | 05/01/1992 |
| **First Injection:** | | | |
| **Ready to Produce:** | | **Completion Report Received:** | |
| **C-104 Approval:** | | **New Well C-104 Approval:** | |
| **Plug Back:** | | | |
| **Authorization Revoked Start:** | | **Revoked Until:** | |

**Well Completion History**

| Effective Date | Property | Well Number | Operator | Completion Status | TA Expiration Date |
|---|---|---|---|---|---|
| 07/29/2011 | [306396] GOLDEN 8 FEDERAL | #001 | [260737] BOPCO, L.P. | Zone Permanently Plugged | |
| 01/01/2009 | [306396] GOLDEN 8 FEDERAL | #001 | [260737] BOPCO, L.P. | Active | |
| 02/24/1994 | [1781] GOLDEN 8 FEDERAL | #001 | [1801] BEPCO, LP | Active | |
| 05/01/1992 | [1781] GOLDEN 8 FEDERAL | #001 | [1801] BEPCO, LP | Active | |

## Financial Assurance

Please login to review the financial assurance associated with this well.

## Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports (Inactive Well Report, Financial Assurance Report).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

**cAB1815752954**

| | | | |
|---|---|---|---|
| **Violation Source:** | Incident, Spill or Release | | |
| **Date of Violation:** | 06/06/2018 | | |
| **Compliance Required:** | 07/06/2018 | **Resolved:** | |

**Notes**

C-141 tracking 2RP-4776

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 06/06/2018 | Enforcements | Pollution and Contamination |

C-141 tracking 2RP-3612

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 03/18/2016 | Enforcements | Pollution and Contamination |

**cJMW1333054861**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 11/26/2013
**Compliance Required:** 12/26/2013 **Resolved:**

**Notes**

C-141 tracking, 2RP-2082

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 11/26/2013 | Enforcements | Pollution and Contamination |

**cAB1422637994**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 08/14/2014
**Compliance Required:** 09/14/2014 **Resolved:**

**Notes**

2RP-2439 tracking C-141

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 08/14/2014 | Enforcements | Pollution and Contamination |

**cKMW1106635572**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 03/07/2011
**Compliance Required:** 06/10/2011 **Resolved:**

**Notes**

C-141 tracking

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 03/07/2011 | Enforcements | Pollution and Contamination |

**cAB1633657160**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 12/01/2016
**Compliance Required:** 01/01/2017 **Resolved:**

**Notes**

| | | |
|---|---|---|
| 12/01/2010 | Enforcements | Pollution and Contamination |

**cMLB1031249940**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 11/08/2010
**Compliance Required:** 12/08/2010 **Resolved:** 01/16/2015

**Notes**

C-141 tracking 2RP-466 closed 1/16/15

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 01/16/2015 | Corrective Actions | Approved Plan (Remediation/Compliance) |
| 11/08/2010 | Enforcements | Pollution and Contamination |

**cKMW1035646496**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 12/22/2010
**Compliance Required:** 03/27/2011 **Resolved:**

**Notes**

C-141 tracking

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 12/22/2010 | Enforcements | Pollution and Contamination |

**cAB1803639032**

**Violation Source:** Incident, Spill or Release
**Date of Violation:** 02/05/2018
**Compliance Required:** 03/05/2018 **Resolved:**

**Notes**

C-141 tracking 2RP-4601

**Actions/Events**

| Event Date | Category | Type |
|---|---|---|
| 02/05/2018 | Enforcements | Pollution and Contamination |

## Reported Releases

*The reported release volumes are sourced from C-141 submissions.*

**Earliest Reported Release in OCD Records:** **Last:** 05/14/2018 Show All Reported Releases

| | Release Volumes | | | | Additional Details | | | |
|---|---|---|---|---|---|---|---|---|
| | BBLS | LBS | MCF | UNK | Type | Product | Severity | Status |
| 2018 (2) | 18 | 0 | 0 | 0 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 2014 (1) | 41 | 0 | 0 | 0 | |
| 2013 (1) | 21 | 0 | 0 | 0 | |
| 2011 (1) | 310 | 0 | 0 | 0 | |
| 2010 (2) | 100 | 0 | 0 | 0 | |
| 2006 (1) | 0 | 0 | 0 | 0 | |
| 1800 (1) | 0 | 0 | 0 | 0 | |
| Grand Total: | 552 | 0 | 0 | 0 | |

## Orders

Please login to review the orders associated with this well.

## Production / Injection

*The production & injection volumes are sourced from monthly production reports (C-115) submissions.*

**Earliest Production in OCD Records:** 12/1992 **Last** 12/2009 Show All Production Export to Excel

| | Production | | | | Injection | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Time Frame | Oil (BBLS) | Gas (MCF) | Water (BBLS) | Days P/I | Water (BBLS) | Co2 (MCF) | Gas (MCF) | Other | Pressure |
| 1992 Cumulative | 12,570 | 11,988 | 90 | 99 | 0 | 0 | 0 | 0 | N/A |
| 1993 | 17,711 | 11,505 | 1,044 | 322 | 0 | 0 | 0 | 0 | N/A |
| 1994 | 11,446 | 7,491 | 1,750 | 253 | 0 | 0 | 0 | 0 | N/A |
| 1995 | 23,668 | 10,564 | 6,655 | 364 | 0 | 0 | 0 | 0 | N/A |
| 1996 | 12,917 | 6,378 | 8,657 | 362 | 0 | 0 | 0 | 0 | N/A |
| 1997 | 4,922 | 4,658 | 7,152 | 323 | 0 | 0 | 0 | 0 | N/A |
| 1998 | 9,189 | 3,697 | 13,625 | 365 | 0 | 0 | 0 | 0 | N/A |
| 1999 | 2,008 | 2,768 | 17,956 | 362 | 0 | 0 | 0 | 0 | N/A |
| 2000 | 5,742 | 1,506 | 31,023 | 358 | 0 | 0 | 0 | 0 | N/A |
| 2001 | 5,317 | 1,029 | 25,025 | 336 | 0 | 0 | 0 | 0 | N/A |
| 2002 | 7,184 | 2,192 | 28,680 | 354 | 0 | 0 | 0 | 0 | N/A |
| 2003 | 4,842 | 1,406 | 32,117 | 357 | 0 | 0 | 0 | 0 | N/A |
| 2004 | 3,730 | 1,359 | 28,515 | 355 | 0 | 0 | 0 | 0 | N/A |
| 2005 | 2,771 | 920 | 28,077 | 339 | 0 | 0 | 0 | 0 | N/A |
| 2006 | 1,271 | 891 | 27,008 | 336 | 0 | 0 | 0 | 0 | N/A |
| 2007 | 680 | 461 | 24,564 | 337 | 0 | 0 | 0 | 0 | N/A |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2009 | 174 | 927 | 29,634 | 343 | 0 | 0 | 0 | 0 | N/A |
| 2010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 2011 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Grand Total: | 127,403 | 70,506 | 337,195 | 5,908 | 0 | 0 | 0 | 0 | N/A |

## Transporters

| Transporter | Product | Most Recent for Property |
|---|---|---|

## Points of Disposition

| ID | Type | Description | Pool(s) |
|---|---|---|---|
| 514150 | Water | | [28340] GOLDEN LANE;DELAWARE, SOUTH |
| 514130 | Gas | | [28340] GOLDEN LANE;DELAWARE, SOUTH |
| 514110 | Oil | | [28340] GOLDEN LANE;DELAWARE, SOUTH |

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220




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# APPENDIX B

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**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal 001




Photograph 1 Date :10/16/2024
Description: Reclaimed well pad
View: Southeast




Photograph 2 Date :10/16/2024
Description: Reclaimed well pad
View: Northwest




Photograph 3 Date :10/16/2024
Description: Reclaimed well pad
View: Southwest




Photograph 4 Date :10/16/2024
Description: Reclaimed well pad
View: Northwest

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
Golden 8 Federal 001




Photograph 5 Date :10/16/2024
Description: Reclaimed well pad
View: North




Photograph 6 Date :10/16/2024
Description: Bermed and fenced well pad
View: Southeast

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 575252

## QUESTIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nKMW1106629393** |
| Incident Name | **NKMW1106629393 GOLDEN 8 FEDERAL #001 @ 30-015-26931** |
| Incident Type | **Oil Release** |
| Incident Status | **Reclamation Report Received** |
| Incident Well | **[30-015-26931] GOLDEN 8 FEDERAL #001** |

| **Location of Release Source** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Site Name | GOLDEN 8 FEDERAL #001 |
| Date Release Discovered | 02/16/2011 |
| Surface Owner | Federal |

| **Incident Details** | |
|---|---|
| *Please answer all the questions in this group.* | |
| Incident Type | Oil Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| **Nature and Volume of Release** | |
|---|---|
| *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
| Crude Oil Released (bbls) Details | Cause: Equipment Failure \| Separator \| Crude Oil \| Released: 310 BBL \| Recovered: 290 BBL \| Lost: 20 BBL. |
| Produced Water Released (bbls) Details | *Not answered.* |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | *Not answered.* |
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | *Not answered.* |
| Other Released Details | *Not answered.* |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | *Not answered.* |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **No, according to supplied volumes this does not appear to be a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **Yes** |
| Reasons why this would be considered a submission for a notification of a major release | **From paragraph A. "Major release" determine using:**<br>**(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.** |

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Richard Kotzur<br>Title: Senior Project Manager<br>Email: NMEnvNotifications@exxonmobil.com<br>Date: 04/14/2026 |

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Site Characterization** | |
|---|---|
| *Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | Between ½ and 1 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between ½ and 1 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between ½ and 1 (mi.) |
| A subsurface mine | Between 1 and 5 (mi.) |
| An (non-karst) unstable area | Zero feet, overlying, or within area |
| Categorize the risk of this well / site being in a karst geology | Medium |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | Yes |

| **Remediation Plan** | |
|---|---|
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| Requesting a remediation plan approval with this submission | Yes |
| *Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.* | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| **Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.) | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 5650 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 7790 |
| GRO+DRO (EPA SW-846 Method 8015M) | 7100 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 16.3 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0.5 |
| | |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| On what estimated date will the remediation commence | 02/16/2011 |
| On what date will (or did) the final sampling or liner inspection occur | 06/03/2024 |
| On what date will (or was) the remediation complete(d) | 06/03/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 7075 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 2860 |
| What is the estimated surface area (in square feet) that will be remediated | 7075 |
| What is the estimated volume (in cubic yards) that will be remediated | 2860 |
| *These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.* | |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| | |
|---|---|
| **Remediation Plan (continued)** | |
| *Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.* | |
| **This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:** | |
| *(Select all answers below that apply.)* | |
| (Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for **off-site** disposal | fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL |
| **OR** which OCD approved well (API) will be used for **off-site** disposal | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, out-of-state | No |
| **OR** is the **off-site** disposal site, to be used, an NMED facility | No |
| (Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms) | No |
| (In Situ) Soil Vapor Extraction | No |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | No |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | No |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | No |
| Ground Water Abatement pursuant to 19.15.30 NMAC | No |
| OTHER (Non-listed remedial process) | No |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Richard Kotzur<br>Title: Senior Project Manager<br>Email: NMEnvNotifications@exxonmobil.com<br>Date: 04/14/2026 |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Deferral Requests Only**<br>*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.* | |
|---|---|
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Sampling Event Information** | |
|---|---|
| Last sampling notification (C-141N) recorded | **561987** |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | **03/19/2026** |
| What was the (estimated) number of samples that were to be gathered | **1** |
| What was the sampling surface area in square feet | **2700** |

| **Remediation Closure Request** | |
|---|---|
| *Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.* | |
| Requesting a remediation closure approval with this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | **Yes** |
| Was this release entirely contained within a lined containment area | **No** |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 7075 |
| What was the total volume (cubic yards) remediated | 2860 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 7075 |
| What was the total volume (in cubic yards) reclaimed | 2860 |
| Summarize any additional remediation activities not included by answers (above) | Site assessment, delineation soil sampling, excavation, excavation soil sampling activities were conducted at the Site to address impacted soil from multiple crude oil and produced water releases that occurred between 2010 and 2019. Following the decommissioning of the site a total of approximately 2,860 cubic yards of soil were removed from the site during the excavation of the impacted area, 7,075 sq ft. Impacted soil was excavated to the reclamation requirement within the top four feet of soil and to Closure Criteria at depths greater than 4 feet bgs. The excavation was backfilled, the well pad was recontoured to match the surrounding topography, and the well pad was reseeded with BLM sandy sites seed mix #2 in October 2024. |

*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 (in .pdf format) 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.*

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.

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Richard Kotzur<br>Title: Senior Project Manager<br>Email: NMEnvNotifications@exxonmobil.com<br>Date: 04/14/2026 |

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## QUESTIONS (continued)

| | |
|---|---|
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| | Action Number:<br>575252 |
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**QUESTIONS**

| **Reclamation Report** | |
|---|---|
| *Only answer the questions in this group if all reclamation steps have been completed.* | |
| Requesting a reclamation approval with this submission | Yes |
| What was the total reclamation surface area (in square feet) for this site | 3080 |
| What was the total volume of replacement material (in cubic yards) for this site | 590 |
| *Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.* | |
| Is the soil top layer complete and is it suitable material to establish vegetation | Yes |
| On what (estimated) date will (or was) the reseeding commence(d) | 05/19/2026 |
| Summarize any additional reclamation activities not included by answers (above) | The excavation was backfilled, the well pad was recontoured to match the surrounding topography, and the well pad was reseeded with BLM sandy sites seed mix #2 in May 2026. |
| *The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.* | |
| | |
| 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. | |
| I hereby agree and sign off to the above statement | Name: Richard Kotzur<br>Title: Senior Project Manager<br>Email: NMEnvNotifications@exxonmobil.com<br>Date: 04/14/2026 |

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## QUESTIONS (continued)

| Operator: | OGRID: |
|---|---|
| XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | 5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**QUESTIONS**

| **Revegetation Report** | |
|---|---|
| *Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.* | |
| Requesting a restoration complete approval with this submission | No |
| *Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.* | |

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## CONDITIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>3617 North Big Spring Street<br>Midland, TX 79705 | OGRID:<br>5380 |
| | Action Number:<br>575252 |
| | Action Type:<br>[C-141] Reclamation Report C-141 (C-141-v-Reclamation) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| michael.buchanan | The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | 4/21/2026 |