

LT Environmental, Inc.

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

March 22, 2018

Ms. Crystal Weaver New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Proposed Work Plan
Golden 8 Federal Central Tank Battery
2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601
XTO Energy, Inc.
Eddy County, New Mexico

Dear Ms. Weaver:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), proposes the following work plan to investigate impacted soil at the Golden 8 Federal Central Tank Battery (Site) in response to multiple historic releases and one recent release of crude oil and produced water. All releases were reported to the New Mexico Oil Conservation Division (NMOCD) on multiple Release Notification and Corrective Action Forms C-141s dating from June 14, 2010 through November 26, 2017. The historic releases (2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017) occurred while the Site was owned by a former operator but were never closed; the more recent release (2RP-4601) occurred after XTO assumed operation of the Site. This work plan is being submitted in response to the conditions of approval from the NMOCD documented on the C-141 for 2RP-4601. However, LTE had already begun investigating historical impact to soil. As such, LTE is presenting the results of preliminary sampling of both historic and new releases in this report. LTE proposes to address all releases concurrently with this work plan that includes additional delineation and subsequent remediation by excavation.

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 New Mexico Oil Conservation Division (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 proposes a site-specific chloride action level of 600 mg/kg or within range (±10%) of background concentrations.

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:



Weaver, C. Page 2

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 ft² – square feet

PRELIMINARY SOIL SAMPLING

LTE collected a total of 16 soil samples from the Site on the following dates: March 3, 2018, March 6, 2018, and March 9, 2018. LTE has depicted the sample locations on Figure 2, Figure 3, and Figure 4. The sample groups represented on the different figures are based on the location of the source (e.g. samples for releases associated with the tank battery are on Figure 2). During the site visits, LTE confirmed the release footprint based on visual observations of soil staining or used the associated C-141 information to approximate the affected area. To investigate potential impact to soil, LTE collected samples at the surface of the recent release and from approximately 6 inches below ground surface by hand auger at the historic releases. All surface and subsurface soil samples were submitted to a certified laboratory for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021, TPH – gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) by EPA Method 8015, and chloride by EPA Method 300.1.

Laboratory analytical results indicate three of sixteen samples contained concentrations of contaminants that exceeded NMOCD regulatory standards. One sample west of the tank battery, and one sample in the pasture south of the well pad contained TPH concentrations exceeding NMOCD standards. A sample southwest of the tank battery collected just beneath the ground surface contained chloride concentrations exceeding NMOCD regulatory standards, but an additional sample collected at 6 inches bgs did not contain detectable chloride concentrations. Laboratory analytical results are presented on Figures 2, 3, and 4 and on Tables 1, 2, and 3. The complete laboratory analytical reports are attached.

ADDITIONAL DELINEATION

Additional investigation of soil impact will be conducted. LTE proposes to address 2RP-633, 2RP-3612 and 2RP-4017, which involved releases extending east of the well pad, by advancing boreholes via hand auger or pot holing in the locations identified on Figure 2. Continuous soil samples will be logged and



Weaver, C. Page 3

described using the Unified Soil Classification System (USCS) to delineate potential hydrocarbon and saltwater impacts. The intervals from immediately beneath the ground surface and then every five feet thereafter will be screened for volatile aromatic hydrocarbons as well as any soil that is stained or has a hydrocarbon odor using a photo-ionization detector (PID). Soil samples with the highest PID result or from the bottom of each borehole will be submitted to a certified laboratory for analysis of BTEX, TPH –GRO, DRO, and MRO by EPA Method 8015, and chloride by EPA Method 300.1. Additional soil borings will be advanced radially in approximately 50-foot intervals from any soil boring demonstrating significant evidence of impacts. The soil borings will be advanced until field screening suggests the extent of hydrocarbon and chloride soil impact is below NMOCD standards based on site ranking, and laboratory analysis will be used to confirm field results. LTE will require Bureau of Land Management (BLM) clearance to disrupt the off-pad area.

On the well pad, LTE will collect surface samples from inside containments where possible as shown on Figure 2. Additionally, LTE will advance soil borings at the locations on the well pad where concentrations of TPH and/or chloride were previously identified exceeding NMOCD standards to delineate vertical extent of observed impact to soil (Figure 2 and Figure 3). LTE will follow the same sampling methods previously described.

PROPOSED REMEDIATION

Because initial sampling results suggest impact is restricted to certain areas, LTE proposes using heavy equipment in the two soil sampling areas on the well pad that are noncompliant with NMOCD standards to excavate impacted soil. As soil is removed, LTE personnel will conduct field screening of organic vapor concentrations with a photoionization detector (PID) according to New Mexico Oil Conservation Division (NMOCD) headspace techniques and chloride using Hach® chloride test strips to determine if additional excavation is required. Once field screening results indicate impacted soil had been removed, LTE will collect confirmation soil samples of the sidewalls and floor of any excavation. Soil samples will be collected to cover approximately every 50 square feet of floor of the excavation and every 50 linear feet of sidewalls. Soil samples will be stored on ice and delivered to a certified laboratory under strict chain-of-custody procedures. Since benzene and BTEX results in preliminary samples were below detection limits, no BTEX will be analyzed in the confirmation samples. The soil samples will be analyzed for TPH – GRO, DRO, and MRO by EPA Method 8015B and chloride by EPA Method 300.1.

For the area affected by misting south of the well pad, the sample collected from 0.5 feet bgs serves as the confirmation soil sample. Impacted soil above 0.5 feet bgs will be removed and no additional samples will be collected in that area. Once soil delineation sampling is complete east of the well pad, LTE will address that off-pad area via excavation as previously described.

Soil excavation will address the full lateral extent of impact encountered. LTE will attempt to excavate the full vertical extent of impact; however, should impact extend beyond four feet bgs, LTE will provide NMOCD with a status update and request to install a 20-mil impermeable liner over residual impacted soil. LTE will include construction specifications in that request, which will be specific to existing site conditions. All excavated soil will be transported to Lea Land (NMOCD Permit # WM01) for disposal. Upon receipt of samples documenting compliance with NMOCD standards, LTE will backfill the on-site excavated area with new caliche. Should backfill be required in the off-site area, LTE will apply soil that meets blends with the native surroundings.



Weaver, C. Page 4

REPORTING

XTO will prepare a report documenting all field activities and describing results for submittal to the NMOCD. The report will include site maps and a table of laboratory analytical results. A report will be submitted within two weeks of receipt of laboratory analytical reports. Should this work plan need revision based on results of additional delineation or site conditions during remediation work, LTE will submit by email preliminary results to NMOCD with proposed changes and/or requests for modifications.

SCHEDULE

XTO will complete the investigation within four weeks of the date of approval of this work plan by NMOCD.

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.

Adrian Baker

Project Geologist

Ashley . Ager, P.G. Senior Geologist

ashley L. ager

Attachments:

Figure 1 Site Location Map

Figure 2 Site Sample Locations (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)

Figure 3 Site Sample Locations (2RP-3612, 2RP-4017)

Figure 4 Site Sample Locations (2RP-4601)

Table 1 Soil Analytical Results (2RP-633, 2RP-521, 2RP-2082, 2RP-2439)

Table 2 Soil Analytical Results (2RP-3612, 2RP-4017)

Table 3 Soil Analytical Results (2RP-4601)

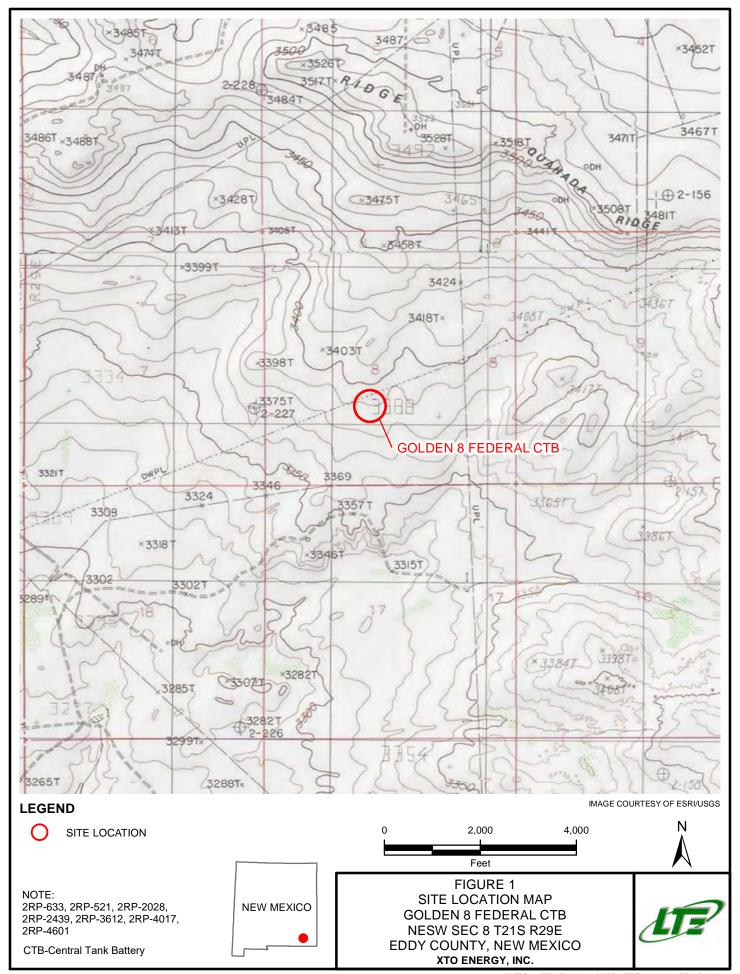
Attachment 1 Initial NMOCD Forms C-141 Attachment 2 Laboratory Analytical Reports

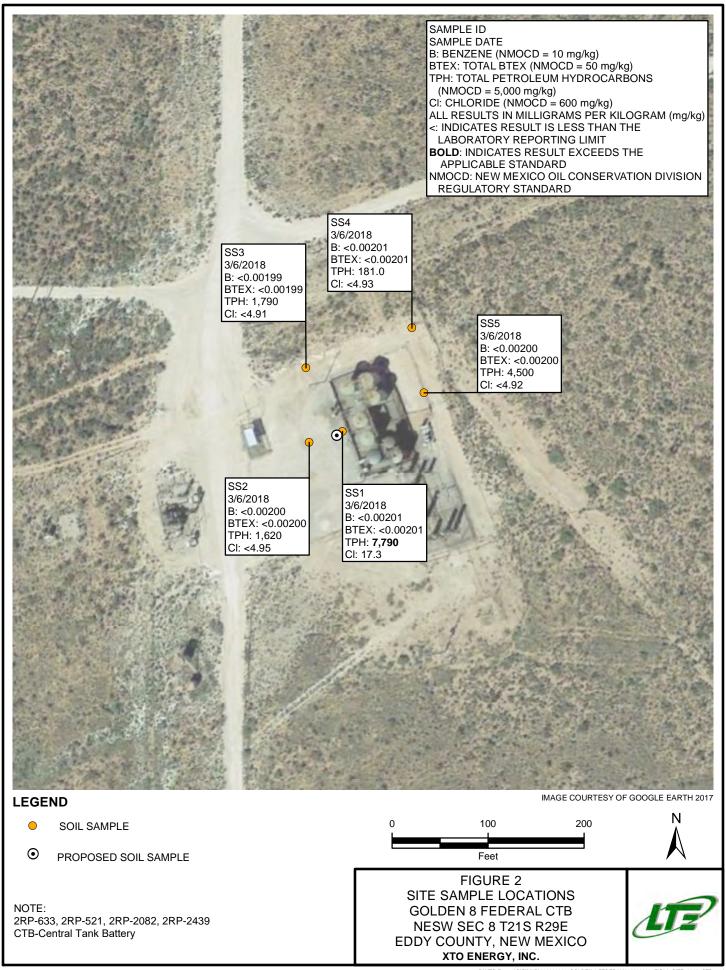
Cc: Kyle Littrell, XTO

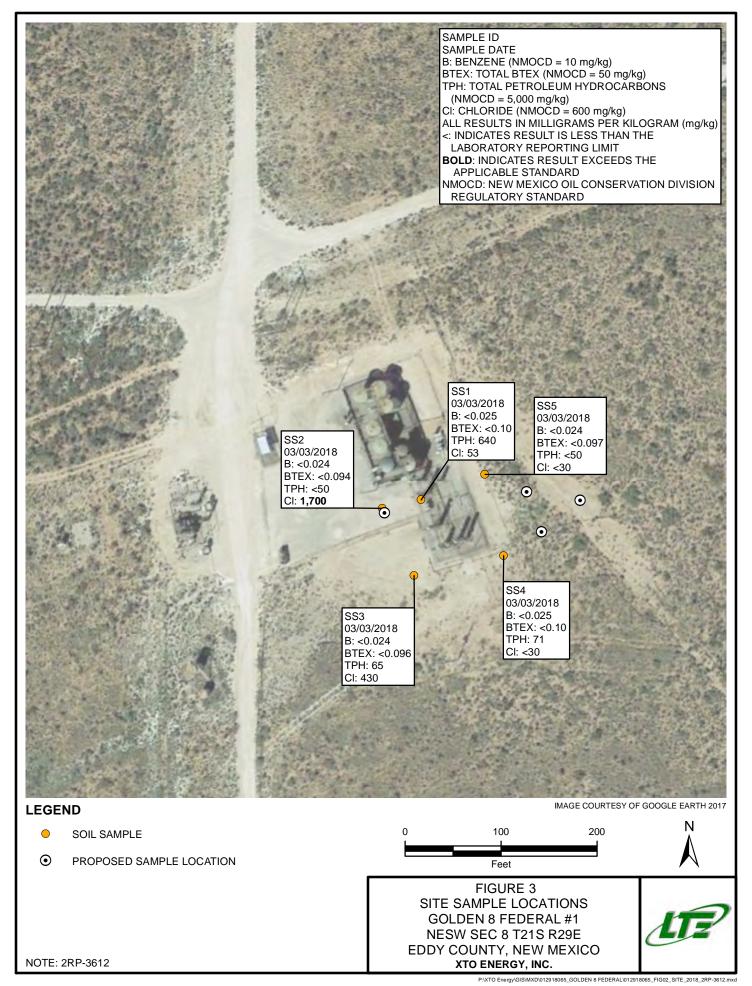
Mike Bratcher, NMOCD Shelly Tucker, BLM

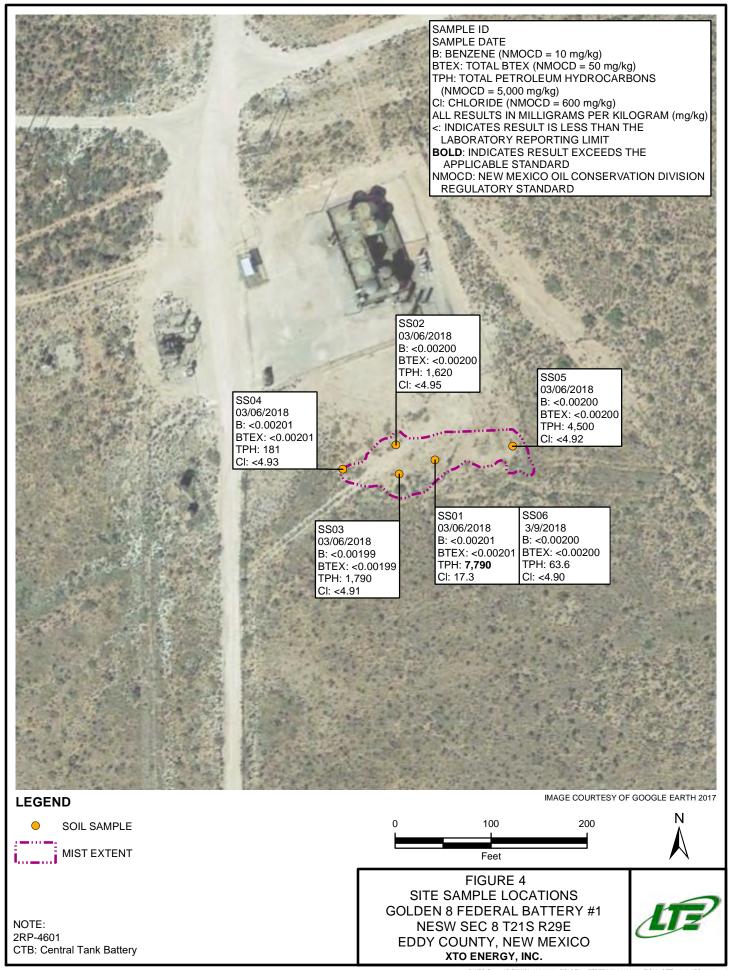
FIGURES











TABLES



TABLE 1 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL CTB 2RP-633, 2RP-521, 2RP-2082, 2RP-2439 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)
SS01	0.5	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7,100	686	7,790	17.3
SS02	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1,540	82.7	1,620	<4.95
SS03	0.5	3/6/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1,700	89.9	1,790	<4.91
SS04	0.5	3/6/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181.0	<4.93
SS05	0.5	3/6/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3,900	604	4,500	<4.92
NMOCD Regulatory	Standard	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.



TABLE 2 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL #1 2RP-3612 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)
SS01	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	< 5.0	230	410	640	53
SS02	0.5	03/03/2018	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	<4.7	<10	< 50	< 50	1,700
SS03	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	<4.8	11	54	65	430
SS04	0.5	03/03/2018	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	< 5.0	<9.9	71	71	<30
SS05	0.5	03/03/2018	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	<4.8	<10	< 50	< 50	<30
NMOCD Regulate	ory Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

 $\ensuremath{\mathsf{BTEX}}$ - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - Not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons

 \boldsymbol{Bold} - indicates result exceeds the applicable regulatory standard.



TABLE 3 SOIL ANALYTICAL RESULTS GOLDEN 8 FEDERAL BATTERY #1 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)	8	C28-40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
SS01	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<74.9	7100	686	7,790	17.3
SS02	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<15.0	1540	82.7	1620	<4.95
SS03	Surface	03/06/2018	< 0.00199	< 0.00199	< 0.00199	< 0.00199	< 0.00199	<14.9	1700	89.9	1790	<4.91
SS04	Surface	03/06/2018	< 0.00201	< 0.00201	< 0.00201	< 0.00201	< 0.00201	<15.0	155	26.4	181	<4.93
SS05	Surface	03/06/2018	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	<74.8	3900	604	4500	<4.92
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
NMOCD Regulator	ry Standard	NE	10	NE	NE	NE	50	NE	NE	NE	5,000	600

Notes:

bgs - below ground surface

 $\ensuremath{\mathsf{BTEX}}$ - benzene, toluene, ethylbenzene, and total xylenes

mg/kg - milligrams per kilogram

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons



ATTACHMENT 1 ORIGINAL FORMS C-141



NM OIL CONSERVATION

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

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

FEB **0 2** 2018

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

RECEIVE

1220 South St. Francis Dr. Santa Fe, NM 87505

Santa	Fe, NM 87505							
Release Notification and Corrective Action								
NAB18056381013	OPERATOR							
Name of Company: XTO Energy, Inc. BOPTO 200737	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 P	Production						
Surface Owner: Federal Mineral Owner	r: Federal	API No. 30-015-26931						
LOCATION OF RELEASE								
Unit Letter Section Township Range Feet from the K 21S 29E 1530 Sou		st/West Line County st Eddy						
Latitude32,490876°	Longitude <u>-104.007627°</u>							
NATUR	E OF RELEASE							
Type of Release Fire/Crude Oil	Volume of Release	Volume Recovered						
1,000	<1 bbl	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 Require	If YES, To Whom? Mike Bratcher/Crystal Weaver (N	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 W N/A	atercourse.						
	1974							
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.								
(5)	OIL CONSER	RVATION DIVISION						
Signature: Approved by Environmental Specialist:								
Printed Name: Kyle Littrell		Vioyal Vo						
Title: Environmental Coordinator	Approval Date: 4518	Expiration Date: NIA						
E-mail Address: Kyle_Littrell@xtoenergy.com	E-mail Address: Kylc Littrell@xtoenergy.com Conditions of Approval:							
Date: 2/1/2018 Phone: 432-221-7331 * Attach Additional Sheets If Necessary	I Se attack	UCC 2KP-440						

Operator/Responsible Party,

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 <u>division-approved corrective action</u> 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

1 none.(432)-221-7331 | Moone.(370)-317-16

kyle_littrell@xtoenergy.com

An ExxonMobil Subsidiary

District i 1625 N. French Dr., Hobbs, NM 88240 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 Ea NIM 97505

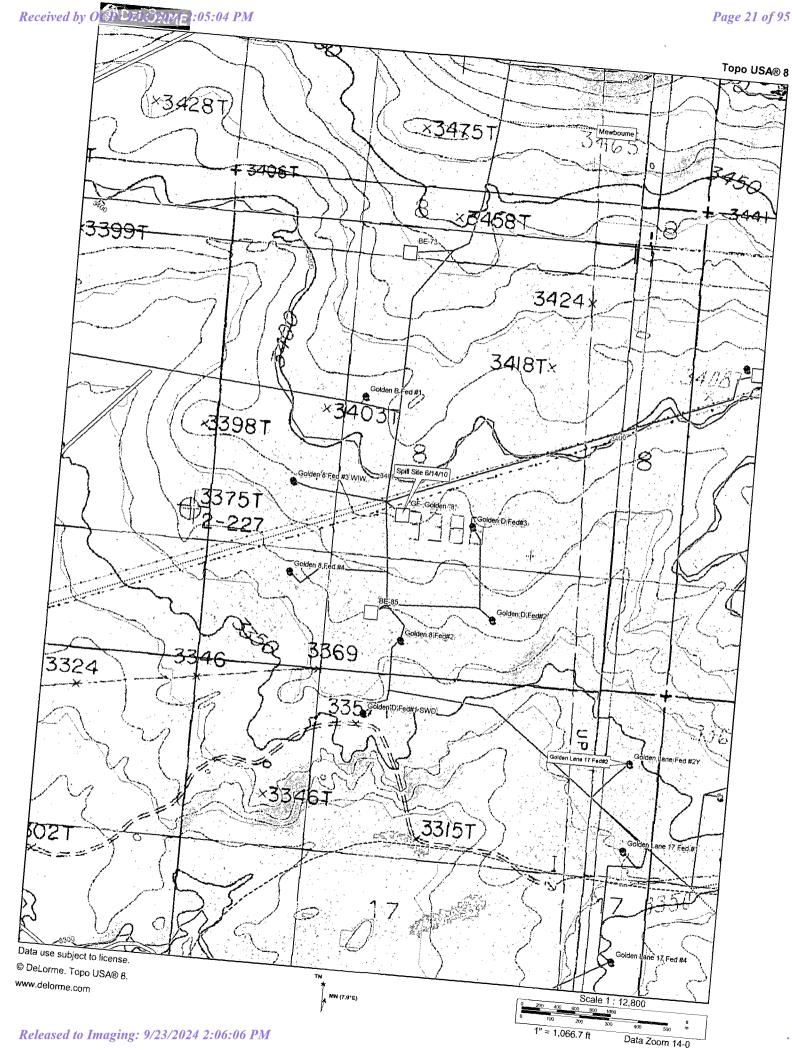
RECEIVED

NMOCD ARTESIA

Form C-141 Revised October 10, 2003

JUN **2 2** 2010Submi 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Santa Fe, Nivi 6/303													
30-015	-2693.		ease Notific	cation	ion and Corrective Action								
KMW 10.	25646	177				OPERATOR Initial Report Final Rep							
Name of Co				260737		Contact Tor	y 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 Ow	ner Federa	aI		Mineral (Owner F	ederal			Lease N	No.			
			ATIO	N OF REI	LEASE								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/Wes	st/West Line County				
K	8	21S	296	29E						Eddy			
	Latitude_N 32.491438 Longitude W 104.008147												
·				NAT	TURE	OF REL	EASE					•	
Type of Rele	ase: Crude	oil				Volume of Crude oil	Release: 90 Bbls	of V	olume F	Recovered:	30 bbls	of crude oil	
Source of Re	lease: Drair	ı line connecti	on on the	back of a 500 bb	l. tank	Date and H Unknown	Iour of Occurrenc			Hour of Dis 8:56 a.m.	covery		
Was Immedia	ate Notice (Yes [] No ☐ Not R	equired	If YES, To	Whom? OCD on call oper		_				
By Whom? T	ony Savoie					Date and Hour 6/14/10 9:24 a.m.							
Was a Water	course Read		Yes 🗵] No		If YES, Vo	olume Impacting t	he Waterco	ourse.				
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*		L							
		. ,	,										
												'	
							the back of the ta				sion, th	e remaining	
							of approximately						
							n the process of b						
				follow the NMOC			plan along with a s and spills.	new conta	ımment	pian wili be	Submin	.tea.	
I hereby certi	fy that the	information gi	ven above	is true and comp	lete to th	ne best of my	knowledge and u						
							nd perform correc						
should their o	perations h	ave failed to a	acceptant adequately	investigate and i	remediate	e contaminati	arked as "Final Ro on that pose a thro	eport does	s not ret nd wate	r. surface w	ater, hu	man health	
or the enviror	nment. In a	ddition, NMC	OCD accep	otance of a C-141	report de	oes not reliev	e the operator of	responsibil	ity for c	ompliance v	with an	y other	
federal, state,	or local lav	ws and/or regu	ılations.				OH GOM	255774	TION	D.W.W.G.L.			
			_				OIL CONS	<u>SERVA</u>	TION	DIVISIO	<u>)N</u>		
Signature: 1 on 2 miles						Approved by District Supervisor:							
Printed Name: Tony Savoie						Signed By Mily Beneuer							
Printed Name	e. Tony Sav	ole					. / /						
Title: Waste	Mgmt.& Re	emediation Sp	ecialist			Approval Da	te: <i>3/3/11</i>	Exp	piration	Date:			
E-mail Addre	ess: TASavo	oie@BassPet.	com	·		Conditions of	• •			Attached	ı 🔲		
Date: 6/22/10)			Phone:432-556-	8730		ediation per O						
Attach Addit		ets 1f Necess	ary				s. SUBMIT RE		ION —	100			
						PROPOSA	AL NOT LATER	THAN:	a	RP-5	الما		



Form C-141

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

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

Revised October 10, 2003

1220 South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 30-015-26931 **Release Notification and Corrective Action** nKmW 1106629393 **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 Type E&P Facility Name: Golden 8 Federal Battery #1 Surface Owner Federal Mineral Owner Federal Lease No.

LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line County Unit Letter Township Section Range Eddy **21S** 29E K R Latitude N 32.491352 Longitude W 104.008223 **NATURE OF RELEASE** Volume of Release: 310 Bbls Volume Recovered: 290 Type of Release: Crude Oil Crude oil Source of Release: 500 bbl tank overflow Date and Hour of Occurrence Date and Hour of Discovery 2/16/11 hour not known 2/16/11 10:00 a.m. If YES, To Whom? NMOCD emergency reporting. Left message with details. Was Immediate Notice Given? Date and Hour 2/16/11 1:30 p.m. By Whom? Tony Savoie Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No MAR 02 2011 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. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Signed By. M. Printed Name: Tony Savoie Title: Waste Mgmt.& Remediation Specialist Approval Date: **Expiration Date:**

E-mail Address: TASavoie@BassPet.com Conditions of Approval: Attached Remediation per OCD Rules & Phone:432-556-8730

Guidelines. SUBMIT REMEDIATION

PROPOSAL NOT LATER THAN:

* Attach Additional Sheets If Necessary

Date: 3/3/11

2RP.633

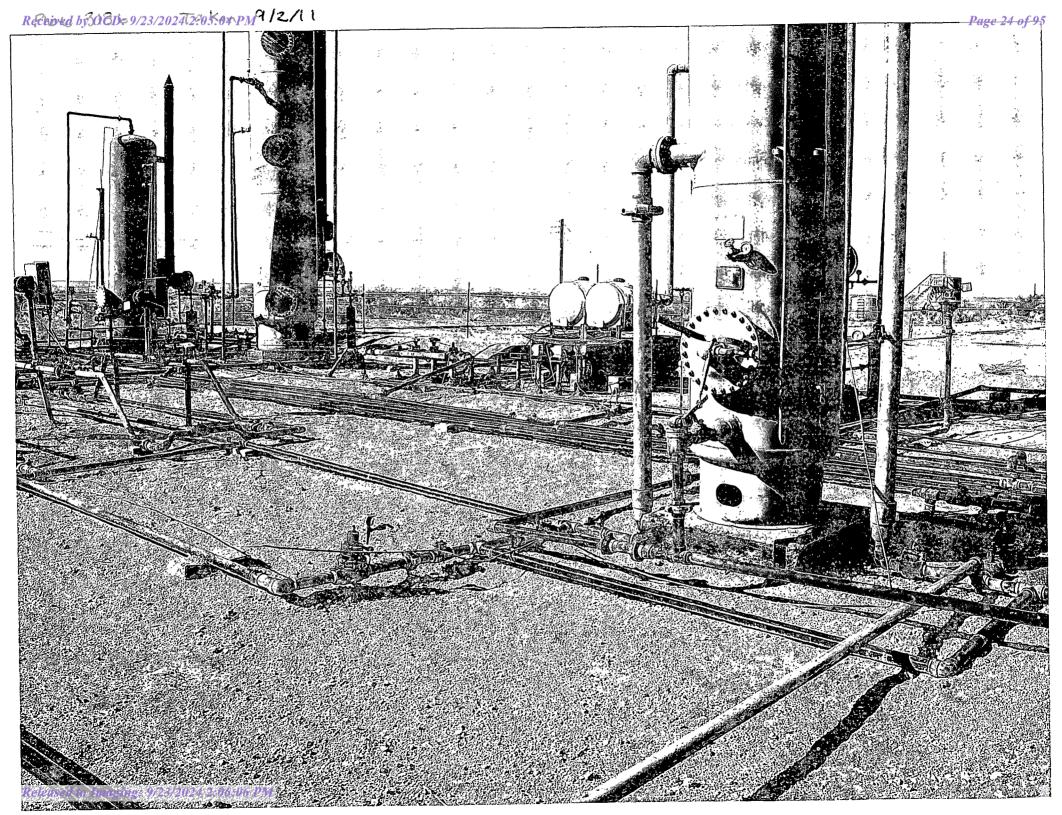
RECEIVED State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Form C-141 Energy Minerals and Natural Resources Revised August 8, 2011 District II NOV **26** 2013 Oil Conservation Division 811 S. First St., Artesia, NM 88210 Submit 1 Copy to appropriate District Office in District III 1220 S. St. Francis Dr., Santa Fe, NM 8750511 OCD ARTES 220 South St. Francis Dr. 1000 Rio Brazos Road, Aztec, NM 87410 accordance with 19.15.29 NMAC. **Release Notification and Corrective Action** 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 Type: Exploration and Production Facility Name: Golden 8 Federal Battery #1, the Well #1 was P&A 2011 API No. 30-015-26931 Mineral Owner: Federal Surface Owner: Federal LOCATION OF RELEASE North/South Line Feet from the East/West Line Feet from the County Unit Letter Section Township Range 1650 2180 29E South West Eddy 8 **21S** K Latitude N 32.491141 Longitude W 104.007775 NATURE OF RELEASE Volume Recovered: 3 Bbls oil and 2 Bbls Type of Release: Crude oil and produced water Volume of Release: 6 Bbls of crude oil and 15 Bbls water water. Date and Hour of Discovery: Date Source of Release: Heater-treater fire tube Date and Hour of Occurrence: Date 11/25/13 Time unknown 11/25/13 Time approximately 9:00 a.m. If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ No 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

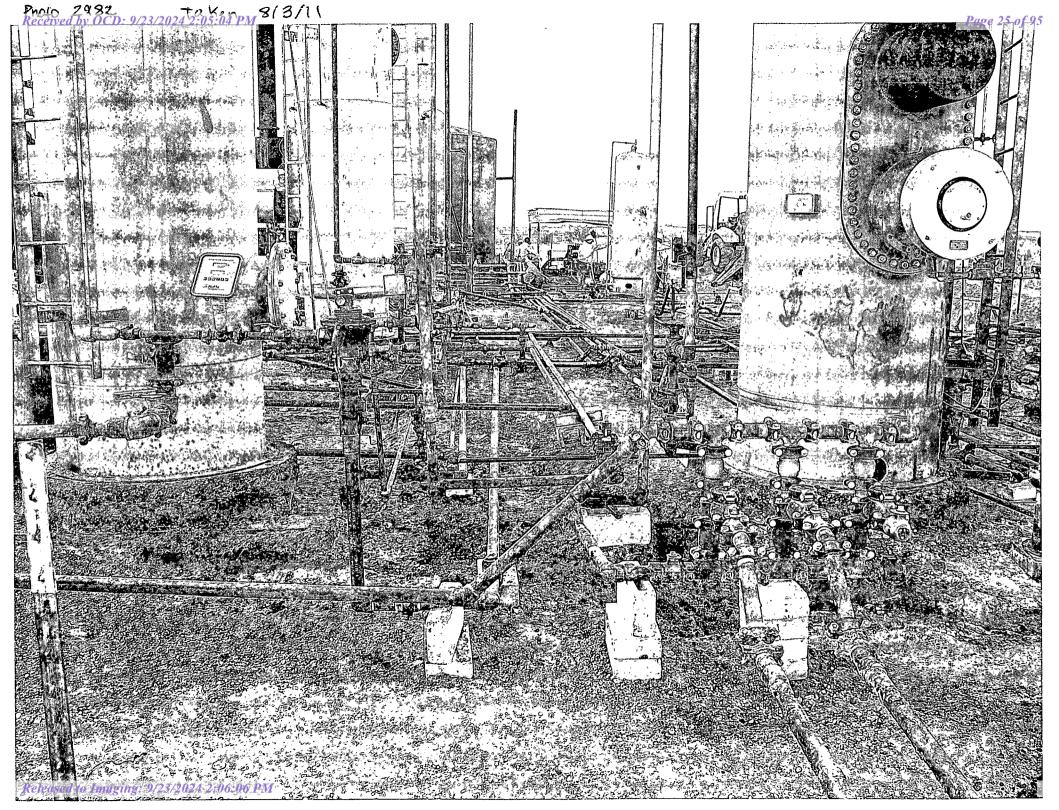
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

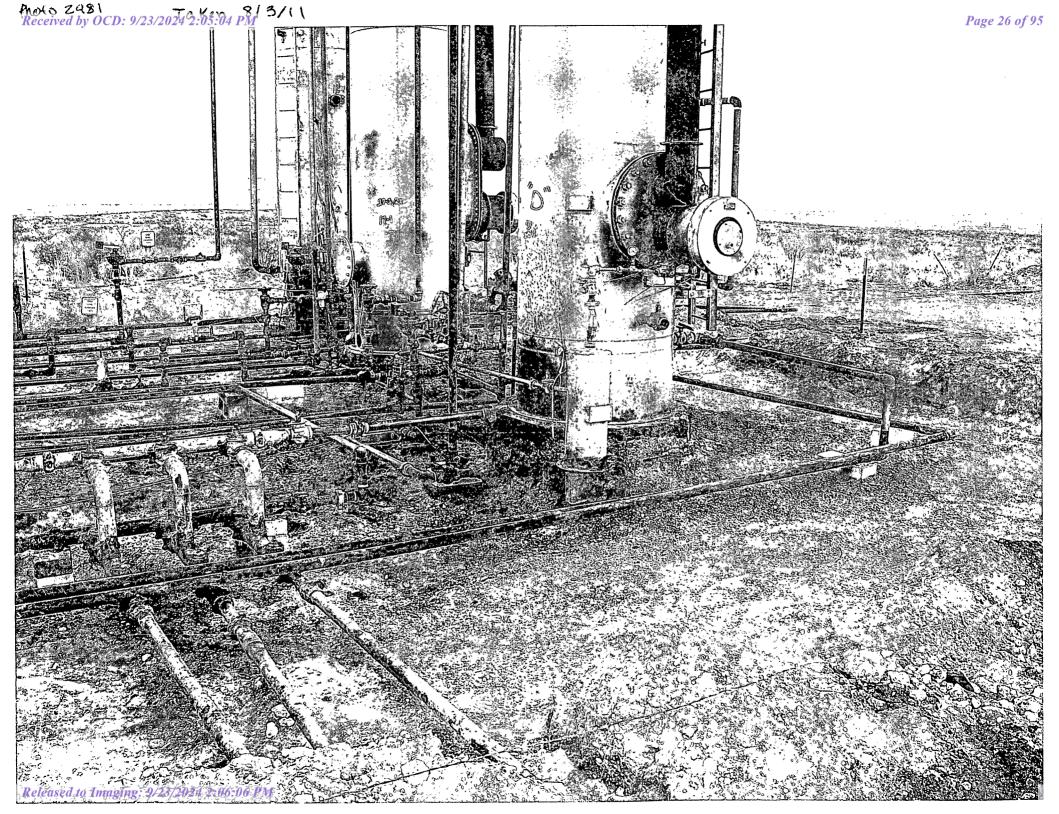
OIL CONSERVATION DIVISION Signature! Approved by Environmental Specialist: Printed Name: Tony Savoie Signed By Approval Date 2 6 2013 Title: Waste Management and Remediation Specialist Expiration Date: E-mail Address: tasavoie@basspet.com Conditions of Approval: Attached Remediation per OCD Rule & Guidelines, & Phone: 432-556-8730 like approval by BLM. SUBMIT REMEDIATION

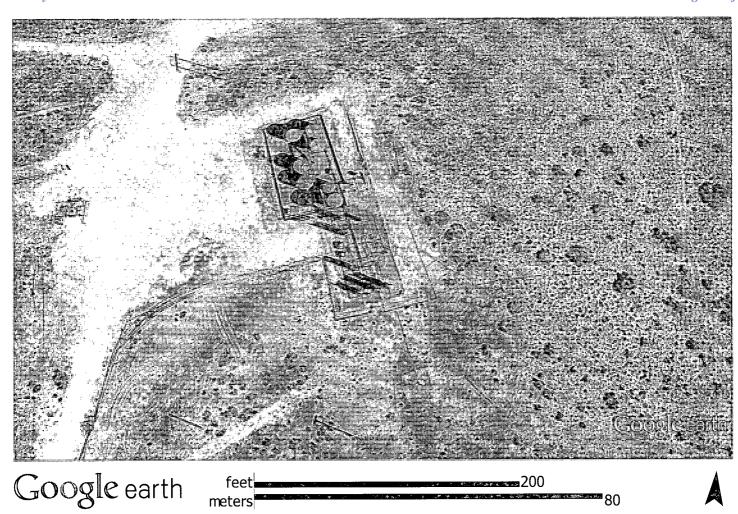
* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN: rember 26,2013 2RP-2082









<u>District I</u> 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

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

P&A 2011

Surface Owner: Federal

Type of Release: Crude oil and produced water

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

ARTESIA DISTRICT AUG 1 3 2014

Page 28 of 95

Form C-141 Revised August 8, 2011

SubPiECEDY EDppropriate District Office in accordance with 19.15.29 NMAC.

API No. 30-015-26931

Volume Recovered: 1 Bbl. oil and 17

Bbls water.

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report 240737 Name of Company: BOPCO, L.P. Contact: Tony Savoie Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Type: Exploration and Production Facility Name: Golden 8 Federal Battery #1, the Well #1 was

Volume of Release: 3 Bbls of

PROPOSAL NO LATER THAN:

crude oil and 38 Bbls water

LOCATION OF RELEASE Range Feet from the North/South Line Feet from the East/West Line County Unit Letter Section **Township** 29E 1650 South 2180 West Eddy K 8 21S

Mineral Owner: Federal

Latitude N 32.491141 Longitude W 104.007775

NATURE OF RELEASE

Source of Release: Victaulic fitting on the production header.	Date and Hour of Occurrence: Date 8/12/14 Time unknown		lour of Discovery: Date me 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?	If YES, Volume Impacting the Wa	tercourse.						
☐ Yes ☒ No								
If a Watercourse was Impacted, Describe Fully.*		L CONSE						
if a watercourse was impacted, Describe runy.	Ai	RTESIA DIST	RICT					
		AUG 13 20	014					
Describe Cause of Problem and Remedial Action Taken.*								
A Victaulic gasket failed on the production header due to a normally ope	.	•	-					
The gasket was replaced and the valve was returned to normal.		RECEIVE	ט					
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 regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ac the NMOCD marked as "Final Report" the contamination that pose a threat to g	tions for relead does not relieground water,	uses which may endanger we the operator of liability surface water, human health					
	OIL CONSER'	VATION I	DIVISION					
Simulation of the state of the								
Signature: (64 Dane)								
Printed Name: Tony-Savoie Approved by Environmental Spacific Signed By Name of the Printed Name of the P								
Title: Waste Management and Remediation Specialist	Approval Date: \$1414	Expiration D	Pate: NA					
E-mail Address: tasavoie@basspet.com	Conditions of Approval:		_					
E-man / tudi ess. tasavoica/basspet.com	Remediation per OCD Ru	یام لا	Attached					
Date:8/13/14 Phone: 432-556-8730	Guidelines. SUBMIT REMEDIATION							

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

State of New Mexico **Energy Minerals and Natural Resources**

MAR 1 5 2016

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Release Notification and Corrective Action											
MABIL	2783	37012	٠.			OPERATOR Initial Report Final Report					
Name of Co				240137		Contact: Amy Ruth					
				ad, N.M. 88220		Telephone No. 575-887-7329					
Facility Nan	ne: Golde	n 8 Federal	#001			Facility Typ	e: Exploration a	and Prod	luction		
Surface Own	ner: Fede	ral		Mineral C)wner:	Federal			API No	. 30-015-26931	
				LOCA	TION	OF REI	LEASE	_			
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the 1650	North/South	South Line	County Eddy				
Latitude 32.491242° Longitude -104.008322°											
				NAT	URE	OF RELI	EASE				
Type of Relea	ase	Crude Oil				Volume of	Release 30 bbls		Volume l	Recovered 7 bbls	
Source of Rel	lease	Heater Gas	ket			1	lour of Occurrence		Date and 2/1/2016	Hour of Discovery	
Was Immedia	ate Notice (Given?				If YES, To	Whom?				
			Yes	No Not Re	equired	Mike Brate	her/Heather Patte	erson (NN	лоср), J	im Amos (BLM)	
By Whom? I							lour 2/2/2016 3:				
Was a Watero	course Read	ched?	Yes ⊠	l No		If YES, Vo	lume Impacting t	the Water	course.		
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	<u> </u>							
Gasket seal in gasket. Describe Are	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.										
regulations al public health should their cor the environ	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 lawsand/er regulations.										
	\sim /.		-1				<u>OIL CON</u>	SERV.	<u>ATION</u>	DIVISION	
Signature:											
Printed Name: Amy C. Ruth Approved by Environmental Specialist 1/4 Democratical								SKARLER			
						Approval Date: 3/2/11/4 Expiration Date: NIA					
						Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO					
Attach Addi	tional She	ets If Necess	sary			LATER T			110_	2RP-3612	

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

NM OIL CONSERVATION

ARTESIA DISTRICT

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 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 NOV 2 9 2016

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in RECEIVED accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action

NAB1433656856	OPERATOR							
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						
LOCATIO	ON OF RELEASE							
	l I i i i	t/West Line County						
K 8 21S 29E 1667 Sout	h 2300 We	st Eddy						
Latitude 32.491322°	Longitude104.007868°							
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	Date and Hour of Discovery						
W. L. W. D. G.	11/26/2016 time unknown	11/26/2016 approx. 10 am by operator						
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Require	If YES, To Whom? Mike Bratcher/Heather Patterson	(NMOCD) and Jim Amos/Shelly Tucker						
Z 163 No Not Require	(BLM)	(Minoco) and sim rimos onerly rucker						
By Whom? Amy Ruth (within 2 hours of being notified)	Date and Hour 11/28/2016 11:							
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.						
☐ Yes ☒ No	N/A							
If a Watercourse was Impacted, Describe Fully.* N/A								
Unused 3 phase vessel re-fitted and returned to operation. Fluids release escaped mostly into zero permeability containment.	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 liquids were recovered via vacuum truck and equipment, tanks, and line	permeability containment, and misted r were power washed. Vessel was iso	pasture east of the location. Free standing lated.						
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 loost laws and/or regulations.								
Signature: OIL CONSERVATION DIVISION								
Printed Name: Amy C. Ruth Approved by Environmental Special 1/4 Demonstrate								
Title: EHS Environmental Supervisor	Approval Date: 1 29 6	Expiration Date:						
E-mail Address: ACRuth@basspet.com	Conditions of Approval:	Attached 🗖						
Date: 11/29/2016 Phone: 432-661-0571								
Attach Additional Sheets If Necessary	<u></u>	200 1017						

2KP-4011

Bratcher, Mike, EMNRD

From: Ruth, Amy C. <ACRuth@BassPet.Com>

Tuesday, November 29, 2016 2:50 PM Sent:

Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD To:

Cc: jamos@blm.gov; Tucker, Shelly

RE: Release Notification - Golden Federal Battery 11-26-16 **Subject:**

Initial C-141 Golden Federal Battery 11-26-16.pdf **Attachments:**

Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

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

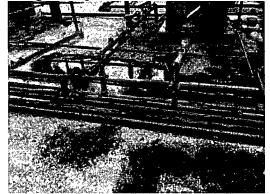
Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

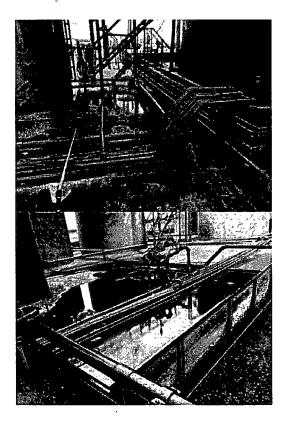
Name: golden federal battery bopco, l.p.

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

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.



ATTACHMENT 2 LABORATORY ANALTYICAL REPORTS





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

andel

4901 Hawkins NE

Albuquerque, NM 87109

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 Qu	al 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 RAN	GE ORGANICS	3			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 RAI	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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 Qu	al 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 RAN	GE ORGANICS	;			Analyst	:: ТОМ
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 RAM	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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 Qu	al 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 RAN	GE ORGANICS	;			Analyst	t: 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 RAI	NGE				Analyst	t: 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	t: 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 9 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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 Qu	al 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 RAN	GE ORGANICS				Analyst	:: ТОМ
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 RA	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

CLIENT: LTE

Analytical Report

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

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al 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 RAN	GE ORGANICS	3			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 RAI	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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

Released to Imaging: 9/23/2024 2:06:06 PM

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803223

Page 7 of 9

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 5.000 75.4 70 3.8 130

Sample ID MB-36866 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 36866 RunNo: 49602 Prep Date: Analysis Date: 3/7/2018 3/6/2018 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

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803223**

Page 8 of 9

13-Mar-18

Client: LTE

Surr: BFB

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

1100

Prep Date: 3/6/2018 Analysis Date: 3/7/2018 SeqNo: 1604249 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 112 75.9 131

108

15

316

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

Hall Environmental Analysis Laboratory, Inc.

0.90

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

Client: LTE

Surr: 4-Bromofluorobenzene

Project: Golden 8 Federal 1 Tank Battery

Sample ID MB-36859	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	n ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	604285	Units: mg/k	(g		
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								

90.2

80

120

Sample ID LCS-36859	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	iles		
Client ID: LCSS	Batcl	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis D	Date: 3/	7/2018	S	SeqNo: 1	604287	Units: mg/k	(g		
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			

1.000

Qualifiers:

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

Released to Imaging: 9/23/2024 2:06:06 PM



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	r: 1803223		RcptNo: 1	
Received By: Anne Thorne	3/6/2018 6:55:00 AM		anne Arm	_	
Completed By: Isaiah Ortiz	3/6/2018 9:14:16 AM		IGH		
Reviewed By: Tople 03/06	118	Libeled	By DD	est.	
		QC.	~ >: 1717	5	
Chain of Custody		3/6/13	(42)		
1. Is Chain of Custody complete?		Yes 🗹	No 🗔	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
3. Was an attempt made to cool the	samples?	Yes 🗹	No 🗌	NA 🗆	
4. Were all samples received at a ten	nperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗀	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🔲		
outspie(e) in proper container(s):		163 🖭	110		
6. Sufficient sample volume for indica	ted test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG	G) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?	?	Yes	No 🗹	NA 🗔	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌 1	No VOA Vials ✓	
10. Were any sample containers receiv	ved broken?	Yes	No 🔽		
				# of preserved bottles checked	
 Does paperwork match bottle labels (Note discrepancies on chain of custom 		Yes 🗹	No 🗌 f	for pH:	unless noted)
[2] Are matrices correctly identified on	• '	Yes 🔽	No 🗆	Adjusted?	uniess noteu)
3. Is it clear what analyses were reque		Yes 🗸	No 🗆		
14. Were all holding times able to be m	net?	Yes 🗸	No 🗔	Checked by:	
(If no, notify customer for authoriza	tion.)				
Special Handling (if applicable	<u>e)</u>				
15. Was client notified of all discrepand	cies with this order?	Yes 🗀	No 🗆	NA 🗹	
Person Notified:	Date:	and held the heart of the section of			
By Whom:	Via:	_ eMail P	hone 🔲 Fax 📗] In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condi		Seal Date	Signed By		
1.0	Yes				
Page 1 of 1	<u> </u>			· <u></u>	

5	١			, ,												TALL ELANTS TANDERS
7	9	TE perman	Wan	Standard	□ Rush				ANA	ANALYSIS	ISI	LABORATORY	OR	A	OR	-
		X-		Project Name	S Codo m	1#1 Tank			www.	www.hallenvironmental.com	опте	tal.cor	0			
Mailing	Mailing Address:	MING!	Midland, TX	ASPENDES]	(2)	Bath	49	4901 Hawkins NE - Albuquerque, NM 87109	Kins NE	- Albu	daerar	ie. NM	8710	0		
3300	N. A	3300 N. A Street	Bid 163 #1	Project #:		1	ř	Tel. 505-345-3975	345-397	5	Fax 505	505-345-4107	107			
Phone #:	# 43	2-764	432-764-5178	30-515	30-515-26931					Analy	Analysis Request	tsent				
email o	email or Fax#:	abatura	ard Henusan	Project Manager.	ger:		-	100			_		-	_		
OA/OC Packa	OA/OC Package:		□ Level 4 (Full Validation)	Adnan	in Baller	}									1.	
Accreditation	itation			Sampler	te		_	101	(1				16	10	ag	
I NELAP	AP	□ Other		On loe:	X Yes	□ No	_	ОЯ	'b0!	9	_	Ī	(A)	21	25	
D EDC	□ EDD (Type)			Sample Temperature:	erature:	0.	_	e) s	g po	etale		(A	οΛ-Ι	18	9	
Date	Тіте	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	PTEX + MT	ag tos H9T dieM) H9T	EDB (Meth	FAH's (831 RCRA 8 M	AnionA (F.C)	OV) Auasa	M92) 0758	HAL	Chiland	
3/2	0930	S	M SS l	1-462	cas	8							X	X	X	
-	0,60		255			e00					-					
	0560	_	5555			E (20)										
	0001		hss			P00										
>	0/0/	>	\$55	>	>	005					-		>	75	-6	
											+					
											+					
				<	0	1										
2 de	Time. 1760	Relinquished by:	od by:	Received by: /	1	3/4 /200	Remarks		2 aP-6633	8	#1		289-2439	52	0	
3 Syste:	Time:	M pensipoullex	Charles	Received	7	3/5//s /72.0	中田	# 184-652 H	2502-	N 10						



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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1803221

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2018

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	53	30	mg/Kg	20	3/7/2018 5:21:40 PM	36886
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analys	t: 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 RA	NGE				Analys	t: 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					Analys	t: 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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 Qu	al 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 RAN	GE ORGANICS	3			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 RA	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	430	30	mg/Kg	20	3/8/2018 12:01:08 PM	36903
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: 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 RAI	NGE				Analys	t: 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					Analys	t: 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 12:13:32 PM	36903
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: 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 RA	NGE				Analys	t: 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					Analys	t: 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: LTE

Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

Hall Environmental Analysis Laboratory, Inc.

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 Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 12:50:46 PM	36903
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			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 RAI	NGE				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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

1803221 14-Mar-18

WO#:

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: Ics 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

%REC SPK value SPK Ref Val **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual

Chloride 15 1.5 15.00 0 101 110

Sample ID MB-36903 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 36903 RunNo: 49642

Prep Date: Analysis Date: 3/8/2018 3/8/2018 SeqNo: 1606266 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** HighLimit Qual

Chloride ND 1.5

Sample ID LCS-36903 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: Batch ID: 36903 RunNo: 49642 **LCSS**

Units: mg/Kg Prep Date: 3/8/2018 Analysis Date: 3/8/2018 SeqNo: 1606267

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

95.0 Chloride 14 1.5 15.00 0 90 110

Qualifiers:

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

Page 6 of 9

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 47 10 50.00 0 93.7 70 130

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

Released to Imaging: 9/23/2024 2:06:06 PM

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803221

Page 8 of 9

14-Mar-18

Client: LTE

Surr: BFB

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

1000

Client ID: LCSS Batch ID: 36859 RunNo: 49627

Prep Date: Analysis Date: 3/7/2018 SeqNo: 1604249 3/6/2018 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 112 75.9 131 1100 108

15

316

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

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	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 36	859	F	RunNo: 4	9627				
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	SeqNo: 1	604287	Units: mg/k	ζg		
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			

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com 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: Sice 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 No 🗌 3. Was an attempt made to cool the samples? Yes 🗹 NA 🗌 No 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No Yes 🔽 6. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No 8. Was preservative added to bottles? Yes No 🔽 NA 🗌 9. VOA vials have zero headspace? Yes No 🗌 No VOA Vials 🗹 No 🔽 10. Were any sample containers received broken? Yes # of preserved bottles checked 11. Does paperwork match bottle labels? for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? Yes 🗸 No ... Checked by: (If no, notify customer for authorization.) 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 ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Page 1 of 1

Sed to 1	-		The state of the s						2							<	
	CIF	- Der	Deman	Standard	□ Rush		A	u	ANAI		YSTS I ABORATOR	¥	5 8	S C	2 6	3 0	. >
· vac				Project Name:	3	14	n		WWW	www.hallenvironmental.com	nviron	menta	Lcom			5	•
Mailing A	vidress	Mailing Address: ALLGLOND	and, 7X	2 # 28	2R.P-3412		49	4901 Hawkins NE	vkins /		Albuquerque, NM 87109	erque,	N	87109	~		
336b	D.M.A	~	Sheet - Bld/103#1	Project #:			ĭ	Tel. 505-345-3975	345-3	10	Fax	505-345-4107	45-41	20			
Phone #:	432		12-1	30-015-	15692-	,				An	Analysis	Request	est				7
email or Fax#:		abalu,	0	Project Manager:	ger:		-				(pC		-				
0.90 C Package:	ackage:		☐ Level 4 (Full Validation)	Adnan	Baller		-			(SWIS	S.,09	bcB.a				1,00	
	ation	K		Sampler:	4			/DE	_	S 02	105	Z808	_	12	1	2	(1
D NELAP	۵.	□ Other		On Ice:	X-Yes	ON O	_	OF		_	_	8/5	101	C	70	27	100
□ EDD (Type)	Type)			Sample Temperature:	perature:	10.	_	(el			_	_		2	8	01	(Y):
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	38108 H9T	TPH (Meth	r£8) ¿'HA9	RCRA 8 Md Anions (F,C	8081 Pesti	OV) 80928	8270 (Sem	Hdl	10140	səldduB viA
5/3	anga	5	188	29/-/	Cool	100		Ī						X	X	X	
	0.520	-	258			000									0	1	
	0500		553			003		i									
	0160		554			004							101				
V	0260	>	\$3\$	>	7	500	64 A							7	>	7	
													===	-1-1			=
									4				+	4			+
					9												-
Dare:	Time:	Refinquished by:	A cod by:	Received by/	3	2/4 1200	Remarks:	66			-		+	-	1		1
Date	Time: 720	Relingsished by	I de pe	Received 200		3/5/2 /720											

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 Vramer

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: Report Date: 09-MAR-18 Work Order Number(s): 578604 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

	Lab Id:	578604-0	001	578604-0	002	578604-0	003	578604-	004	578604-	005	
	Field Id:	SS01		SS02		SS03	,,,,	SS04		SS05		
Analysis Requested		5501		3502		3303		5504		3503	,	
	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

Jessica Weamer





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS01**

Matrix:

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

% Moisture:

Tech: Analyst: OJS

OJS

Date Prep:

03.08.18 13.00

Basis:

Wet Weight

Seq Number: 3043151

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

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM ARM

Date Prep:

03.08.18 10.00

Basis:

Wet Weight

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS01** Matrix:

Date Prep:

Date Received:03.08.18 09.15

Lab Sample Id: 578604-001

Date Collected: 03.06.18 14.00

Prep Method: SW5030B

% Moisture:

Tech:

ALJ

Analytical Method: BTEX by EPA 8021B

03.08.18 16.45

Basis:

Wet Weight

Analyst: ALJ

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
			0/_				

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	





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: SS02

Matrix:

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: O.

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

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 03.08.18 10.00

Basis:

Wet Weight

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS02**

Analytical Method: BTEX by EPA 8021B

Matrix:

Date Received:03.08.18 09.15

Lab Sample Id: 578604-002

Date Collected: 03.06.18 14.10

Prep Method: SW5030B

% Moisture:

Tech:

Analyst:

ALJ ALJ

Date Prep:

03.08.18 16.45

Basis:

Wet Weight

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS03** Matrix:

Date Received:03.08.18 09.15

Lab Sample Id: 578604-003

Date Collected: 03.06.18 14.20

Prep Method: E300P

% Moisture:

Tech: Analyst: OJS

Analytical Method: Inorganic Anions by EPA 300

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

% Moisture:

Tech: Analyst: ARMARM

Date Prep:

03.08.18 10.00

Basis:

Wet Weight

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		





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

Prep Method: SW5030B

Tech:

Analytical Method: BTEX by EPA 8021B

% Moisture:

Analyst:

ALJ ALJ

Date Prep:

03.08.18 16.45

Basis:

Wet Weight

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		





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

Prep Method: E300P

Analysis Date

03.08.18 16.39

% Moisture:

Tech: Analyst:

Chloride

OJS OJS

Date Prep:

<4.93

03.08.18 13.00

Basis:

Wet Weight

Seq Number: 3043151

Parameter Cas Number Result

Analytical Method: Inorganic Anions by EPA 300

RL

4.93

Units

mg/kg

Flag

U

Dil

1

Analytical Method: TPH by SW8015 Mod

Prep Method: TX1005P

Tech:

ARM

% Moisture:

ARM Analyst:

Date Prep: Seq Number: 3043122

16887-00-6

03.08.18 10.00

Basis: Wet Weight

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		





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

Prep Method: SW5030B

Analytical Method: BTEX by EPA 8021B

% Moisture:

Tech: Analyst: ALJ 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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS05**

Date Collected: 03.06.18 14.40

Date Received:03.08.18 09.15

Lab Sample Id: 578604-005

OJS

Prep Method: E300P

% Moisture:

Analyst:

Tech: OJS

Date Prep:

Date Prep:

Matrix:

03.08.18 13.00

03.08.18 10.00

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

ARM

Analytical Method: Inorganic Anions by EPA 300

Tech: Analyst:

ARM

Seq Number: 3043122

Prep Method: TX1005P

% Moisture:

Basis:

Wet Weight

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal CTB

Soil

Sample Id: **SS05**

Matrix:

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

03.08.18 16.45 Date Prep:

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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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

Flag

Flag



Seq Number:

Parameter

Parent Sample Id:

Parent Sample Id:

QC Summary 578604

LT Environmental, Inc.

Golden 8 Federal CTB

LCSD

LCSD

Analytical Method: Inorganic Anions by EPA 300

3043151 Matrix: Solid

Spike

Amount

Date Prep:

Limits

E300P 03.08.18

LCS Sample Id: 7640419-1-BKS MB Sample Id: 7640419-1-BLK

LCS

Result

LCSD Sample Id: 7640419-1-BSD

Prep Method:

%RPD RPD Limit Units Analysis Flag Date

Result %Rec Chloride 03.08.18 14:25 < 5.00 250 248 99 249 100 90-110 0 20 mg/kg

LCS

%Rec

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3043151

MR

Result

578424-003

Matrix: Soil

MS Sample Id:

578424-003 S

Prep Method:

E300P

Date Prep: 03.08.18

MSD Sample Id: 578424-003 SD

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

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

Seq Number:

3043151

578425-005

Matrix: Soil

MS Sample Id: 578425-005 S Prep Method:

E300P 03.08.18

Date Prep: MSD Sample Id: 578425-005 SD

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

03.08.18 15:55 Chloride <4.97 249 250 100 250 100 90-110 0 20 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3043122 Matrix: Solid

Prep Method: Date Prep: TX1005P

03.07.18

LCS Sample Id: 7640359-1-BKS LCSD Sample Id: 7640359-1-BSD MB Sample Id: 7640359-1-BLK

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount Result %Rec 03.08.18 02:51 Gasoline Range Hydrocarbons (GRO) 986 99 971 70-135 2 35 <15.0 1000 97 mg/kg 03.08.18 02:51 1020 102 996 70-135 2 35 mg/kg Diesel Range Organics (DRO) 1000 100 <15.0

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

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

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

LCS = Laboratory Control Sample A = Parent Result

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

Flag



Seq Number:

Parent Sample Id:

QC Summary 578604

LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method: TPH by SW8015 Mod

578424-001

3043122 Matrix: Soil

MS Sample Id: 578424-001 S

Prep Method: TX1005P

Date Prep: 03.07.18

MSD Sample Id: 578424-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	it 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 MS %Rec Flag	MSD MSD %Rec 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

LCS Sample Id: 7640464-1-BKS LCSD Sample Id: 7640464-1-BSD MB Sample Id: 7640464-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
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 MS Sample Id: 578604-005 S MSD Sample Id: 578604-005 SD Parent Sample Id: 578604-005

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 $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [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

Setting the Standard since 1990 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0200)

Received by	DED:	9/2	3/20	24 2	105	04	1 P	M _I	R	V		-		1	-		_				1											Page
is or expenses incurred by the Client if such lose; e enforced unless previously negotiated under a r	e: Notice: Signature of this document and relingu	Relinquished by:	160	Relinquished by Simpler:	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY	2 Participation of the Control of th	Next Day FMEDGENCY	Turnaround Time (Business days)	10	9	8		1 0				3 SSO3	2 SS02	1 \$50	No. Field ID / Point of Collection		Samplers's Name: Aaron Williamson	Project Contact:	Abaker@ltenv.com	3300 N. A Street Bldg 1 Suite 103 Midland TX 79705	Company Address:	LTE / Permian	Client / Reporting Information		Dallas Texas (214-902-0300)
re due to circumstances beyond the conduity executed client contract.	shment of samples constitutes and		Date Time:	SAMPLE CUSTODY MUST BE D	b, if received by 5:00 pm	STANDARD TAT	Contract TAT	Day TAT	5 Day TAT)					SWP.					Phone No: 432-704-5178	land TX 79705			3		
Sees or expenses incurred by the Client it such losss and to descriptes control to the such pieces of the client company to Xenco, its affiliates and subcontract by the client it such losss and the control of Xenco. A minimum charge of \$75 will be applied to each project. CF:(0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: 5, 1	- 31	Relinquished By:	Received By: Relinguished By: Date	CUMENTED	T. T		Level 3 (CLP Forms) UST / RG -411	Level III Std QC+ Forms TRRP Level IV	Level II Std QC Level IV (Full Data Pkg /raw data)	Data Deliverable Information						A 10 0 11 11 1	1430	1420	1200	1110	NaCe NaCe NaCe NaCe NaCe NaCe NaCe NaCe	## OPHIZE Number of preserved bottless A H EPA N	Methode Methode	a bood 88 bc	015	1 5	NM	Project Location: Growth & Federal CTB	ă		WWW.XERICO.COM Xenco Quate #	San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)
7 ID:R-8 The cost of samples and shall not a not analyzed will be involced in the involced in	On Ice Cooler Temp. Thermo, Corr. Factor	Date Time: Received By:	Daya Time: Received by:	FED-EX / UPS: Tracking #				711:30-015-26931	200											Field Comments		oride EF A = Air			SW = Surface water			W = Water	Watrix Codes	Analytical Information	S Xence Job #	Phoenix, Arizona (480-355-0900)



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

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

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

Work Order #: 578604

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 con	tainer/ cooler?	N/A	
#5 Custody Seals intact on sample bottle	s?	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 relinqu	rished/ received?	Yes	
#10 Chain of Custody agrees with sample	e 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 indicate	ed test(s)?	Yes	
#16 All samples received within hold time	e?	Yes	
#17 Subcontract of sample(s)?		Yes	
#18 Water VOC samples have zero head	space?	N/A	
* Must be completed for after-hours de Analyst:	livery of samples prior to placing i PH Device/Lot#:	n the refrig	erator
Checklist completed by:		Date: <u>03/0</u>)8/2018
Checklist reviewed by:	Jessica Kramer	Date: <u>03/0</u>)8/2018

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 Vramer

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: Report Date: 12-MAR-18 Work Order Number(s): 578893 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

	Lab Id:	578893-001			
Analysis Requested	Field Id:	SS06			
Anatysis Requestea	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)	1	<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.

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

Jessica Weamer

Jessica Kramer Project Assistant





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

% Moisture:

Tech: Analyst: ARM ARM

Date Prep: 03.10.18 12.00

Basis: V

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		





LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Soil

Matrix:

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

SS06

Prep Method: SW5030B

Tech: ALJ % Moisture:

ALJ Analyst:

Sample Id:

03.10.18 12.30 Date Prep:

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.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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



Seq Number:

QC Summary 578893

LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method: Inorganic Anions by EPA 300

3043446 Matrix: Solid

LCS Sample Id: 7640586-1-BKS MB Sample Id: 7640586-1-BLK

MR

LCSD Sample Id: 7640586-1-BSD %RPD RPD Limit Units

Prep Method:

Date Prep:

E300P

E300P

mg/kg

03.12.18

Spike LCS LCS Limits LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec

Chloride 03.12.18 09:31 < 5.00 250 261 104 261 104 90-110 0 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Prep Method: 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

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

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 03.12.18 Date Prep:

MS Sample Id: 578891-004 S MSD Sample Id: 578891-004 SD Parent Sample Id: 578891-004

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

Analytical Method: TPH by SW8015 Mod

TX1005P Prep Method: Seq Number: 3043414 Matrix: Solid 03.10.18 Date Prep:

LCS Sample Id: 7640553-1-BKS LCSD Sample Id: 7640553-1-BSD MB Sample Id: 7640553-1-BLK

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD Flag **Parameter** Result %Rec Date Result Amount %Rec Result 03.10.18 16:37 Gasoline Range Hydrocarbons (GRO) 957 96 954 95 70-135 0 35 <15.0 1000 mg/kg 03.10.18 16:37 1010 101 1020 70-135 35 mg/kg Diesel Range Organics (DRO) 1000 102 1 <15.0

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

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

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

LCS = Laboratory Control Sample A = Parent Result

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

Flag

Flag

X

 \mathbf{X}

X

X

X



Seq Number:

QC Summary 578893

LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method: TPH by SW8015 Mod

3043414 Matrix: Soil

TX1005P Prep Method:

Date Prep: 03.10.18

MS Sample Id: 578129-021 S Parent Sample Id: 578129-021

MSD Sample Id: 578129-021 SD % RPD RPD Limit Units

03.10.18

SW5030B

Parameter	Parent Result	Amount	Result	%Rec	MSD Result	MSD %Rec	Limits	%KPD	KPD Lim	it 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:

LCS Sample Id: 7640559-1-BKS LCSD Sample Id: 7640559-1-BSD MB Sample Id: 7640559-1-BLK

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
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

Seq Number: 3043357 Matrix: Soil Date Prep: 03.10.18

MS Sample Id: 578592-004 S MSD Sample Id: 578592-004 SD Parent Sample Id: 578592-004 MS Limits %RPD RPD Limit Units Parent Spike MS MSD MSD Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 03.10.18 23:03 < 0.00200 0.06630.0629 70-130 Benzene 0.100 66 63 5 35 mg/kg

Toluene < 0.00200 0.1000.052653 0.0525 53 70-130 0 35 mg/kg 03.10.18 23:03 0.100 0.0384 70-130 03.10.18 23:03 Ethylbenzene < 0.00200 0.0272 27 38 34 35 mg/kg 0.0707 70-130 03.10.18 23:03 < 0.00401 0.200 0.0530 2.7 29 35 m,p-Xylenes 35 mg/kg 03.10.18 23:03 0.100 0.0283 28 70-130 27 35 o-Xylene < 0.00200 0.0372 37 mg/kg

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) / BRPD = 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

Prep Method:

LABURATURIES
Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

CHAIN OF CUSTO

San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc.

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

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

Work Order #: 578893

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 con	tainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	s?	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 relinqu	ished/ received?	Yes
#10 Chain of Custody agrees with sample	e 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 indicate	ed test(s)?	Yes
#16 All samples received within hold time	?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	space?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in	n the refrigerator
Checklist completed by:	Mille Lowe	Date: 03/10/2018
Checklist reviewed by:	Jessica Warner Jessica Kramer	Date: 03/12/2018

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD

Sent: Monday, May 14, 2018 2:00 PM

To: 'Ashley Ager'; Weaver, Crystal, EMNRD
Cc: stucker@blm.gov; Adrian Baker; Littrell, Kyle

Subject: RE: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612,

2RP-4017, 2RP-4601

RE: XTO * Golden 8 Fed 1 (CTB) * 2RP-521,633,2018,2439,3612,4017, & 4601 * DOR: 1/14/10, 2/16/11, 11/25/13, 8/12/14, 2/1/16, 11/26/16, & 1/18/18

Ashley,

Your proposal for additional delineation and remediation is approved. Federal sites will require like approval from BLM.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Ashley Ager <aager@ltenv.com> Sent: Friday, March 23, 2018 4:56 PM

To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: stucker@blm.gov; Adrian Baker <abaker@ltenv.com>; Littrell, Kyle <Kyle Littrell@xtoenergy.com>

Subject: Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Crystal,

Please find attached a work plan for addressing historic and recent releases at the Golden 8 Federal Central Tank Battery. The report includes preliminary results from initial surface sampling and proposes additional sampling and remediation work.

The work plan covers the following releases at the location: 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017, 2RP-4601

Please let me know if you have any questions and have a nice weekend.

Ashley

Ashley Ager, M.S., P.G. Senior Geologist/Vice President of Regional Offices



LT Environmental, Inc. 848 East 2nd Avenue Durango, Colorado 81301 (970) 385-1096 office (970) 946-1093 mobile www.ltenv.com







Connect with us:

This message and any attached files are privileged, confidential, and intended solely for the use of the addressee. If you have received this by mistake, please let us know by reply e-mail and delete it from your system; you may not copy, disclose, disseminate, use or rely upon its content for any use. E-mail transmissions cannot be guaranteed to be secure, error-free, or free of viruses. The sender and LTE therefore do not accept liability for any of these described issues. The comments and opinions expressed herein are those of the author and not necessarily of LTE. Thank you.

Please consider the environment before printing this e-mail.

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

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

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

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

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

CONDITIONS

Action 385923

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	385923
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/23/2024