Received by OCD: 9/16/2024 8:58:49 AM			Ni		CONSE ESIA DIS	RVATI	ON	Page 1
District I 1625 N. French Dr., Hobbs, NM 88240 District II Energy		New Mex and Natura	ico I Resources		AR 15			orm C-141 gust 8, 2011
1000 KIO Brazos Koad, Aztec NM X/410		rvation Div h St. Franc	Submit 1 Copy to appropriate District Offic RECEIVED ance with 19.15.29 NM				ct Office in 29 NMAC.	
1220 S. St. Francis Dr., Santa Fe, NM 87505		e, NM 875		•				
Release No	tificatio	n and Co	orrective A	ction				
NAB1107837012		OPERA			🛛 Initia	al Report	: F	inal Repor
Name of Company: BOPCO, L.P. 2007 2 Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 8		Contact: An Telephone	ny Ruth No. 575-887-732	29				
Facility Name: Golden 8 Federal #001			e: Exploration a		duction			
Surface Owner: Federal Mine	eral Owner:	Federal	· · · · · · · · · · · · · · · · · · ·		API No	. 30-015	5-26931	
LO	OCATIO	N OF REI	LEASE					
Unit LetterSectionTownshipRangeFeet fromK821S29E1650	the North South	/South Line	Feet from the 2180	East/W West	est Line	County Eddy		
Latitude <u>32</u>			<u>-104.008322</u>	<u>.</u>				
Type of Release Crude Oil	NATURE	Volume of	EASE Release 30 bbls	;	Volume I	Recovered	7 bbls	
Source of Release Heater Gasket			Iour of Occurrent	e l	Date and 2/1/2016	Hour of I	Discovery	
Was Immediate Notice Given?	Not Required	If YES, To Whom?						
By Whom? Brad Blevins Was a Watercourse Reached?			lour 2/2/2016 3 blume Impacting					
🗌 Yes 🖾 No		N/A	nume impacting	me wate	rcourse.			
If a Watercourse was Impacted, Describe Fully.* N/A								
Describe Cause of Problem and Remedial Action Taken.* Gasket seal in heater treater ruptured and released fluids onto gasket.	o location an	d pasture. Op	erator switched o	ut vessel	s until rep	airs could	be made to	treater
Describe Area Affected and Cleanup Action Taken.* Leak affected 3060 square feet of well pad and approximate	ly 600 squar	e feet of pastu	re to the east of th	e battery	. Standin	g fluids w	ere recovere	:d.
I hereby certify that the information given above is true and regulations all operators are required to report and/or file cer public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate or the environment. In addition, NMOCD acceptance of a C federal, state, or local laws and/or regulations.	rtain release 1 report by t and remedia	notifications a he NMOCD n ite contaminat	nd perform correct arked as "Final R ion that pose a th	ctive acti leport" de reat to gr	ons for rel oes not rel ound wate	eases whi ieve the o r, surface	ch may end perator of li water, hum	anger ability an health
Signature: And And	OIL CONSERVATION DIVISION							
Printed Name: Amy C. Ruth	Approved by		1.					
Title: EHS Remediation Specialist		Approval Da	te: J//11	<i>U</i> I	Expiration	Date: N	IH	
E-mail Address: ACRuth@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guideines							
Date: <u>3-15-2016</u> Phone: 432-661-05 Attach Additional Sheets If Necessary	571	SUBMIT	HEMEUIAIIS		OPOSA	NO	1	•
Attach Additional Sheets II Necessary		LATER T	HAN:4	1211	ILe		ZR	P.361

Page 1 of 102

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Received by OCD: 9/16/2024 8:58:49 AM

Bratcher, Mike, EMNRD

Ruth, Amy C. <acruth@basspet.com> Tuesday, March 15, 2016 2:59 PM</acruth@basspet.com>
Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Biehl, William "Bill"
RE: Golden 8 Federal 001
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></bblevins@basspet.com>
Sent:	Tuesday, February 02, 2016 3:26 PM
То:	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

From:	Weaver, Crystal, EMNRD
To:	"Ruth, Amy"; Bratcher, Mike, EMNRD; Tucker, Shelly; Jim Amos
Cc:	Sanders, Toady; McSpadden, Wes; Foust, Bryan; Littrell, Kyle
Subject:	RE: Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)
Date:	Monday, March 5, 2018 3:01:00 PM
Attachments:	image001.png
	1. 4601 - COAs and signed C-141 Initial.pdf
	C-141 Initial for 2RP-521.pdf
	C-141 Initial for 2RP-633.pdf
	C-141 Initial for 2RP-2082.pdf
	1.Initial C-141 for 2RP-2439.pdf
	1.Initial C-141 for 2RP-3612.pdf
	3.Initial C-141- 2RP-4017.pdf

RE: XTO * Golden 8 Federal Battery #1 * 30-015-26931 * 2RP-4601

Amy,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). <u>The OCD tracking number for this event is 2RP-4601, please refer to this tracking number on any and all submissions sent in to the OCD.</u> Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one had a due date of 3/2/18 and that has passed.

Please note: This API number has had quite a few spills in the past that are recorded in our system. Some of these case numbers are pretty old starting with the oldest one 2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612 and 2RP-4017. I attached all of the Initial C-141s above for you all to reference. Could you all provide a plan of action on what XTO plans to do regarding this location by no later than 3/23/18.

Thank you,

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210 Office: 575-748-1283 ext. 101 Cell: 575-840-5963 Fax: 575-748-9720

From: Ruth, Amy [mailto:Amy_Ruth@xtoenergy.com]
Sent: Friday, February 2, 2018 9:49 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD
<Crystal.Weaver@state.nm.us>; Tucker, Shelly <stucker@blm.gov>; Jim Amos <jamos@blm.gov>
Cc: Sanders, Toady <Toady_Sanders@xtoenergy.com>; McSpadden, Wes

<Wes_McSpadden@xtoenergy.com>; Foust, Bryan <Bryan_Foust@xtoenergy.com>; Littrell, Kyle <Kyle_Littrell@xtoenergy.com> **Subject:** Initial C-141 - Golden Fed "D", 8, 17 CTB (API # 30-015-26931)

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



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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

An ExxonMobil Subsidiary

Received by OCD: 9/16/2024 8:58:49 AM

Bratcher, Mike, EMNRD

From:	Ashley Ager <aager@ltenv.com></aager@ltenv.com>
Sent:	Friday, March 23, 2018 4:56 PM
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD
Cc:	stucker@blm.gov; Adrian Baker; Littrell, Kyle
Subject:	Golden 8 Federal Central Tank Battery/2RP-521, 2RP-633, 2RP-2082, 2RP-2439, 2RP-3612, 2RP-4017,
	2RP-4601
Attachments:	Proposed Work Plan Golden 8 Federal CTB.PDF

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

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Please consider the environment before printing this e-mail.



COMPLIANCE / ENGINEERING / REMEDIATION

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 web

Notes: bbls - barrels $ft^2 - square fer$

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 L. ager

Ashley U. Ager, P.G. Senior Geologist

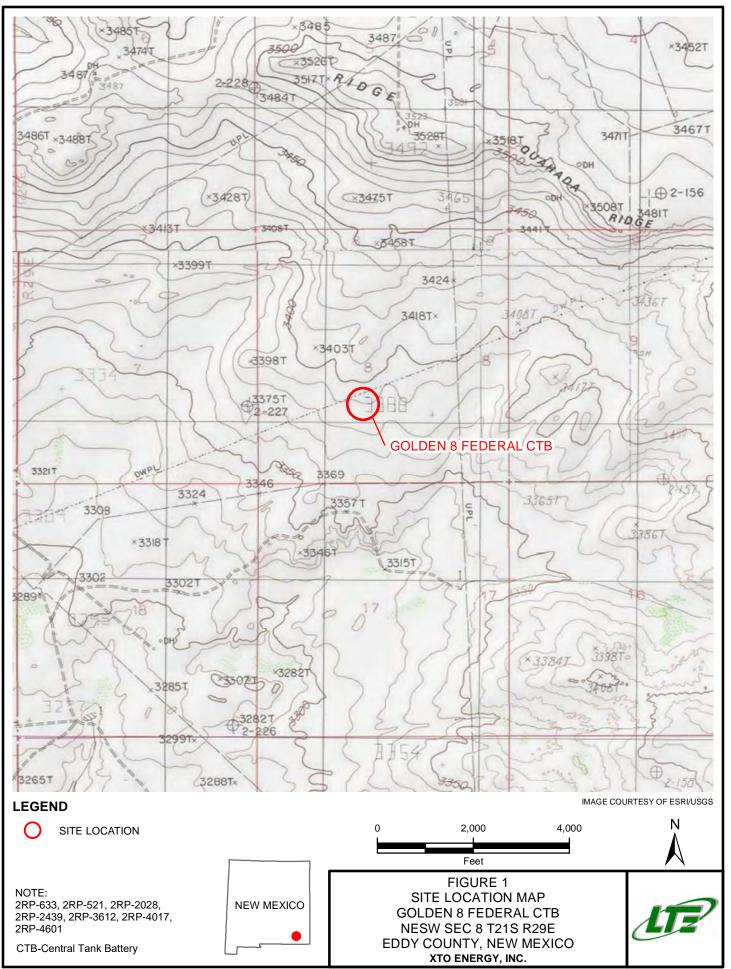
Attachments:

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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

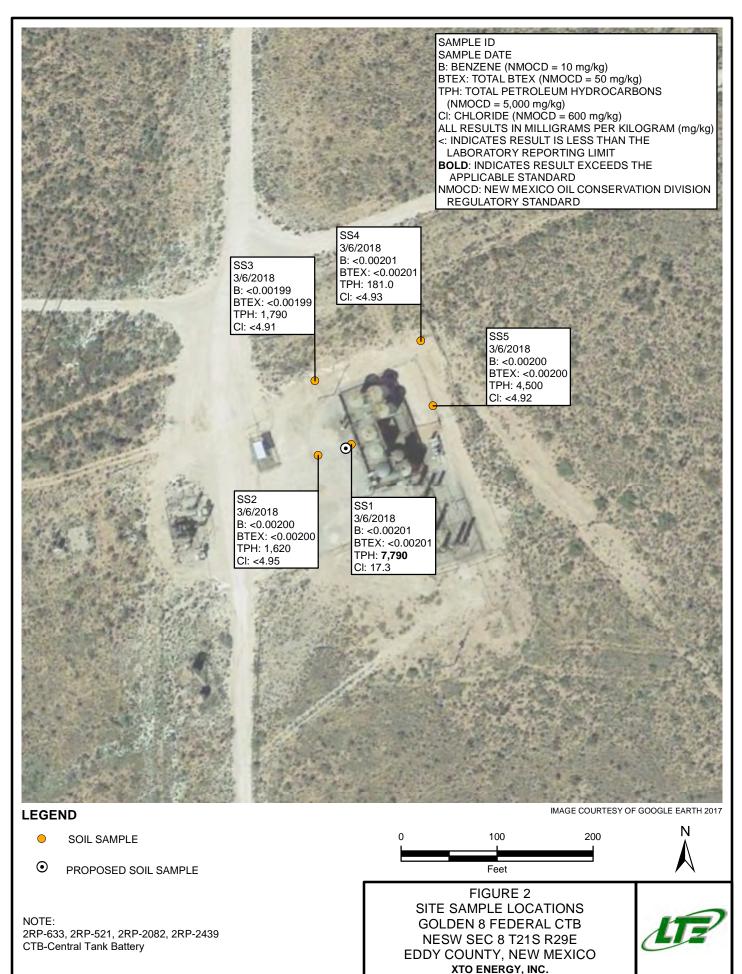


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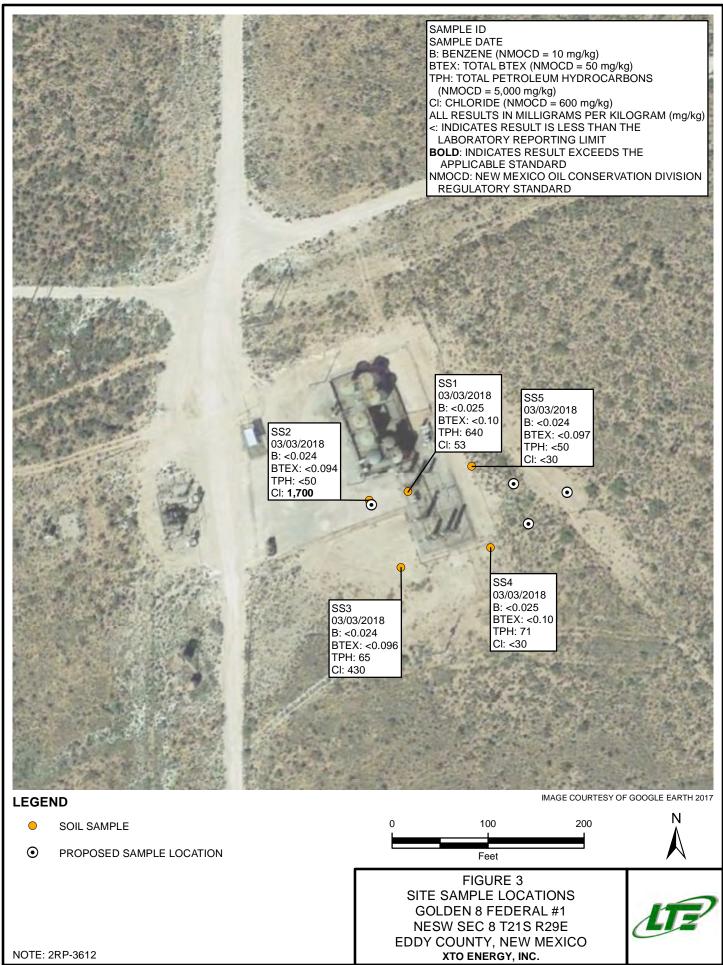
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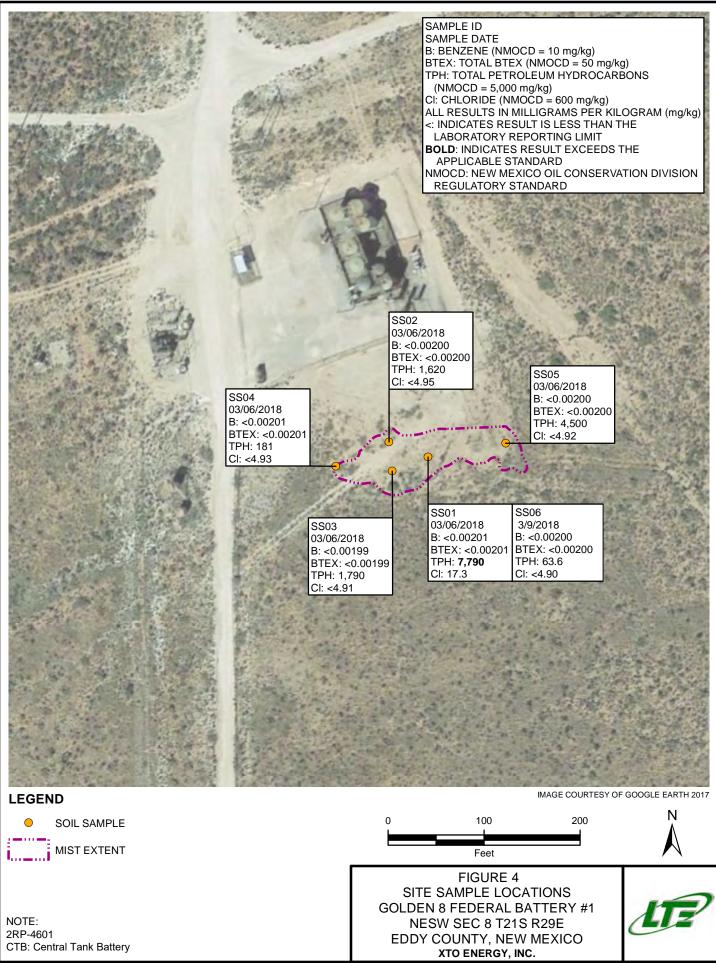


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TABLES



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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)	U	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

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 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)	C10-C28 Diesel Range Organics (mg/kg)	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	y 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



ATTACHMENT 1

ORIGINAL FORMS C-141



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CERVATION

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District I	State of	New Mexico	ARTESIA DISTRICT
625 N. French Dr., Hobbs, NM 88240 District II		and Natural Resources	FEB 0 2 2018 Form C-141 Revised August 8, 2011
11 S. First St., Artesia, NM 88210 District III	Oil Conser	vation Division	Submit 1 Copy to appropriate District Office in
000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 200 S. St. Ferencia De. Sonte Fe. NM 87505	1220 South	St. Francis Dr.	accordance with 19.15.29 NMAC.
220 S. St. Francis Dr., Santa Fe, NM 87505		e, NM 87505	
	ase Notification	n and Corrective A	Action
NABI 803(438/4/3 Name of Company: XTO Energy, Inc. B	DAA ALAAZA	OPERATOR Contact: Kyle Littrell	🛛 Initial Report 🔲 Final Repor
Address: 522 W. Mermod, Suite 704 Carls		Telephone No. 432-221-7.	331
Facility Name: Golden 8 Federal Battery # P&A in 2011)	1 (Well #1 was	Facility Type: Exploration	and Production
Surface Owner: Federal	Mineral Owner:	Federal	API No. 30-015-26931
	LOCATIO	N OF RELEASE	
Unit LetterSectionTownshipRangeK821S29E		South Line Feet from the 2375	East/West LineCountyWestEddy
Lati	itude <u>32.490876°</u>	_Longitude104.00762	<u>27°</u>
Type of Release Fire/Crude Oil	NATURE	OF RELEASE Volume of Release	Volume Recovered
Source of Release Flare		<1 bbl Date and Hour of Occurren	0 bbl nce Date and Hour of Discovery
		1/18/2018, 10:00 AM	1/18/2018, 10:00 AM
Was Immediate Notice Given?	No 🔲 Not Required	If YES, To Whom? Mike Bratcher/Crystal We	aver (NMOCD), Shelly Tucker/Jim Amos (BLM)
By Whom? Kyle Littrell			
		Date and Hour 1/18/2011	
Was a Watercourse Reached?	No	Date and Hour 1/18/2011 If YES, Volume Impacting N/A	
Was a Watercourse Reached?		If YES, Volume Impacting	
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus	Taken.* ing fluid to exit the facili	If YES, Volume Impacting N/A	g the Watercourse. exiting fluids ignited and impacted the ground within
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak	Taken.* ing fluid to exit the facili pened and all wells flowi en.* eet and was extinguished	If YES, Volume Impacting N/A ity flare. A small amount of a ng into location were shut in.	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square feet of surrounding area (mostly to the
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square fa west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptanc should their operations have failed to adequately or the environment. In addition, NMOCD acception	Taken.* ing fluid to exit the facili pened and all wells flowi en.* eet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release n e of a C-141 report by the investigate and remediat	If YES, Volume Impacting N/A ity flare. A small amount of on ing into location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a th oes not relieve the operator of	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square feet of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health of responsibility for compliance with any other
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square f west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptanc should their operations have failed to adequately or the environment. In addition, NMOCD acception	Taken.* ing fluid to exit the facili pened and all wells flowi en.* eet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release n e of a C-141 report by the investigate and remediat	If YES, Volume Impacting N/A ity flare. A small amount of on ing into location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a th oes not relieve the operator of	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square feet of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square fa west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accept federal, state, or local laws and/or regulations.	Taken.* ing fluid to exit the facili pened and all wells flowi en.* cet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release n e of a C-141 report by the investigate and remediate tance of a C-141 report d	If YES, Volume Impacting N/A ity flare. A small amount of end ing into location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a th oes not relieve the operator of OIL CON	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square fect of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health of responsibility for compliance with any other NSERVATION DIVISION
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square f west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accept federal, state, or local laws and/or regulations.	Taken.* ing fluid to exit the facili pened and all wells flowi en.* cet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release n e of a C-141 report by the investigate and remediate tance of a C-141 report d	If YES, Volume Impacting N/A ity flare. A small amount of on ing into location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a th oes not relieve the operator of <u>OIL CON</u> Approved by Environmental	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square fect of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health of responsibility for compliance with any other NSERVATION DIVISION Specialist:
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square f west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accept federal, state, or local laws and/or regulations. Signature: Kyle Littrell	Taken.* ing fluid to exit the facili pened and all wells flowi en.* eet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release n e of a C-141 report by the investigate and remediate tance of a C-141 report d	If YES, Volume Impacting N/A ity flare. A small amount of end ing into location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a th oes not relieve the operator of OIL CON	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square feet of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health of responsibility for compliance with any other NSERVATION DIVISION Specialist:
Was a Watercourse Reached? Yes X If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Fluid meters plugged and dump valve failed caus flare carthen berm. Dump valve was manually of Describe Area Affected and Cleanup Action Tak Fire briefly impacted approximately 250 square f west and east). An environmental contract comp I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance should their operations have failed to adequately or the environment. In addition, NMOCD accep federal, state, or local laws and/or regulations. Signature: Kyle Littrell	Taken.* ing fluid to exit the facili pened and all wells flowi en.* eet and was extinguished any applied MicroBlaze is true and complete to the d/or file certain release ne of a C-141 report by the investigate and remediate tance of a C-141 report descriptions of the second second second second second second second second second second se	If YES, Volume Impacting N/A ity flare. A small amount of enginto location were shut in. I. Oil misted approximately 2 to the affected area and will of the best of my knowledge and otifications and perform corr e NMOCD marked as "Final e contamination that pose a those oes not relieve the operator of OIL COM Approved by Environmental	g the Watercourse. exiting fluids ignited and impacted the ground within 2600 square feet of surrounding area (mostly to the continue to assist with remediation efforts. I understand that pursuant to NMOCD rules and ective actions for releases which may endanger Report" does not relieve the operator of liability hreat to ground water, surface water, human health of responsibility for compliance with any other NSERVATION DIVISION Specialist:

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/2/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4UD has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <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></amy_ruth@xtoenergy.com>
Sent:	Friday, February 2, 2018 9:49 AM
То:	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



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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></kyle_littrell@xtoenergy.com>
Sent:	Thursday, January 18, 2018 2:03 PM
То:	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,

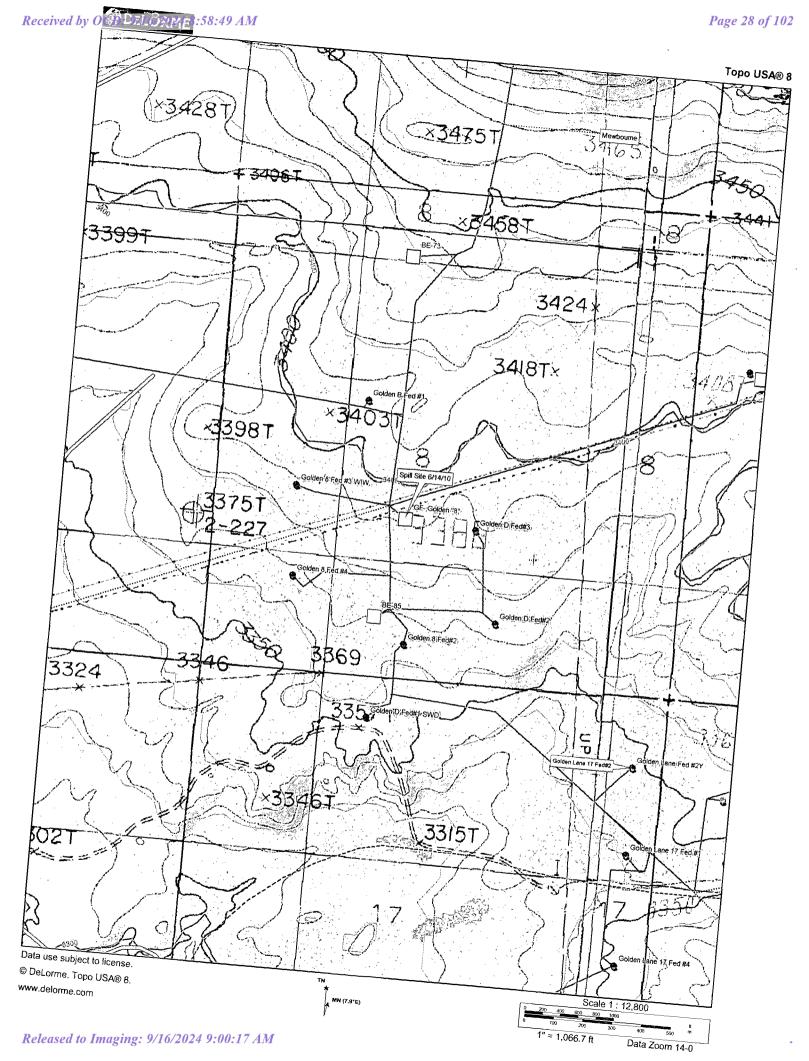
This is to notify you that this morning at approximately 10:00 am XTO discovered an accidental release of fluid from a flare stack which resulted in a small fire (approximately $25' \le X \cdot 10'$). There were no injuries. We will provide details with the submission of a form C-141. Please contact me with any questions or concerns. Thanks. --Kyle

Kyle Littrell EH&S Coordinator XTO Energy Inc. Delaware Division Phone:(432)-221-7331 | Mobile:(970)-317-1867 kyle_littrell@xtoenergy.com

An ExxonMobil Subsidiary

eceived by O)CD: 9/16	/2024 8:58:	49 AM					,		Page 27 of	
District 1 1625 N. French District II				Stat Energy Mine		New Mex and Natura			EIVE	Revised October 10, 200.	
301 W. Grand. District III	Avenue, Art	esia, NM 88210	I	Oil Co	าทรคา	rvation Di	vision	JUN	22 201	Submil 2 Copies to appropriat	
000 Rio Brazos	s Road, Azte	c, NM 87410					vation Division JUN 2 2 2010submit 2 Cc District O St. Francis Dr.				
1220 C. St. E-mail: Dr. Contr. E- NM 07505						e, NM 875	1	NMOC	d Arte	with Rule 116 on back side of form	
30-015-26931 Release Notificatio							معتقوة خرجي بدانا	Action	1		
Imw 10.						OPERA'		1 KCHOI		al Report 🔲 Final Repo	
Name of Co				260737		Contact Tor		, <u> </u>			
Address 522	2 W. Merr	nod, Suite 70	04 Carlsb	oad, N.M. 88220			No. 432-556-	8730			
Facility Nar	ne: Golde	n 8 Federal E	Battery #	1		Facility Typ	be E&P				
Surface Owner Federal Mineral Owner F					Federal			Lease N	lo.		
				LOCA	ΓΙΟ	N OF RE	LEASE				
Unit Letter	Section	Township	Range			South Line	Feet from th	e East/	West Line	County	
K	8	21S	29E							Eddy	
					<u> </u>						
			I	Latitude_N 32.49	1438	Longitu	ide W 104.00	08147			
				NATI	URE	OF REL	EASE				
Type of Relea	ase: Crude	oil					Release: 90 E	bls of	Volume I	Recovered: 80 bbls of crude oil	
Source of Re	lease: Drai	1 line connecti	on on the	back of a 500 bbl.	tank	Crude oil Date and Hour of Occurrence Date and Hour of Discove Date and Hour of Discove				Hour of Discovery	
Source of Re	ieuse. Drui				unix	Unknown 6/14/10 8:56 a.m.					
Was Immedia	ate Notice (If YES, To					
			Yes L	No 🗌 Not Req	juired		IOCD on call o	-			
By Whom? Tony Savoie Was a Watercourse Reached?						Hour 6/14/10 Solume Impacti					
was a water	course rea		Yes 🛛	No		II 125, V	siume impacti	ng the wat	ercourse.		
If a Watarcou	ursa was Im	pacted, Descr	iba Fully	*							
n a watereot		ipuereu, beser	ibe i uliy.								
Describe Cau	ise of Prob	em and Reme	dial Actio	n Taken.* The drain	n line	connection of	the back of th	ne tank fail	ed due to ir	ternal corrosion, the remaining	
				ed, inspected and re							
D	A 66	- 1.01	T		y • 1	<u> </u>		. 1 . 2 . 0.00			
										e the earthen containment placed on plastic. The area	
inside the cor	ntainment a	rea will be sar	npled to c	letermine vertical ex	xtent;	a remediation	plan along wi			plan will be submitted.	
The Site reme	ediation for	the crude oil	spill will	follow the NMOCD) guid	elines for leak	s and spills.		1.1		
										suant to NMOCD rules and eases which may endanger	
public health	or the envi	ronment. The	acceptan	ce of a C-141 report	t by th	ne NMOCD m	arked as "Fina	l Report" d	ioes not rel	ieve the operator of liability	
										r, surface water, human health ompliance with any other	
		ws and/or regu			eport		e the operator	or respons	ability for c	Simpliance with any other	
		0					OIL CC	NSERV	ATION	DIVISION	
Signature:	10	9	2								
Signature.	(On u	from	u _			Approved by District Supervisor: Signed By Milly Brancus					
Printed Name	e: Tony Sav	oie					Signed B	y	9 DRA	there	
Title: Waste I	Mgmt.& Ro	emediation Sp	ecialist			Approval Da	te: <u>3/3/</u>	//	Expiration	Date:	
E-mail Addre	ss: TASav	oic@BassPet.	com	······		Conditions o	f Approval:			Attached	
Date: 6/22/10)			Phone:432-556-87	730		ediation per				
		ets 1f Necess	arv	11000.432-330-87	50	- Guideline	es. SUBMIT	REMEDI			
						PROPOS	AL NỘT, LẠT	ER THAN	l:	RP-521	
							4/3/1	/	_	1-1 1	
							./ /		-		

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Received by OCD: 9/16/2024 8:58:49 AM						Page 29 of 102			
District II Energy N		New Mexi and Natural	ico l Resources	Form C-141 evised October 10, 2003					
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 122	Oil Conservation Division 1220 South St. Francis Dr.				Submit 2 District v	Copies to appropriate t Office in accordance vith Rule 116 on back side of form			
		e, NM 875			<u></u>				
30-015-26931 Release Notif	ication								
Name of Company BOPCO, L.P. 2607.37	T	OPERA7 Contact Ton			Initial Report	Final Report			
Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 8822			No. 432-556-87	30					
Facility Name: Golden 8 Federal Battery #1		Facility Typ							
Surface Owner Federal Mineral	Owner F	Federal		se No.]				
LOCATION OF RELEASE									
Unit Letter Section Township Range Feet from the		South Line	Feet from the	East/West L	ine County				
K 8 21S 29E					Eddy	•			
Latitude_N 32	.491352	Longitu	de W 104.0082	223	i	<u></u>			
NA	TURE	OF RELI	EASE						
Type of Release: Crude Oil		Volume of Release: 310 Bbls Volume Recovered				290			
Source of Release: 500 bbl tank overflow		1	lour of Occurrent ur not known		e Date and Hour of Discovery 2/16/11 10:00 a.m.				
Was Immediate Notice Given?	Required	If YES, To Whom? NMOCD emergency reporting. Left message with details.							
By Whom? Tony Savoie		Date and H	lour 2/16/11 1:30) p.m.	u				
Was a Watercourse Reached?		If YES, Vo	olume Impacting	the Watercours	se.	VED			
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. MAR 02 2011									
If a Watercourse was Impacted, Describe Fully.*					MAR 02	2 2011			
NMOCD ARTESIA									
Describe Cause of Problem and Remedial Action Taken.* A 50 was repaired and put back in service.	0 bbl. Oil	product tank	overflowed due t	o a heater-trea	er malfunction.	The heater-treater			
Describe Area Affected and Cleanup Action Taken.*An area in pasture land outside the containment measuring approximately reported to the NMOCD on 10/6/10. The oil saturated soil outsi of crude oil was recovered from inside the containment. The are The Site remediation for the crude oil spill will follow the NMC I hereby certify that the information given above is true and con regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 re should their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-14	400 sq. ft. de the con ca inside th DCD guide nplete to t release n cport by th d remediat	The area outs ntainment was he containmer elines for leak he best of my potifications au e NMOCD m te contaminati	side the containm removed by Bas nt was covered w s and spills. knowledge and nd perform corre arked as "Final F ion that pose a th	ent had been a sin Env. using a ith soil to abso understand that ctive actions for Report" does no reat to ground	ffected by a pre a hydro-vac. Ap rb small areas c pursuant to NM or releases whic ot relieve the op water, surface v	vious flow line spill proximately 290 bbls of free product. MOCD rules and h may endanger erator of liability vater, human health			
federal, state, or local laws and/or regulations.			OIL CON	SERVATI	ON DIVISI	ON			
Signature: 1 ong Damo	Approved by District Supervisor: 1. Signed By Mile Demonstration								
Printed Name: Tony Savoie									
Title: Waste Mgmt.& Remediation Specialist		Approval Dat	te: 3/7/11	Expira	tion Date:				
E-mail Address: TASavoie@BassPet.com		Conditions of	••		Attache	d 🔲			
Date: 3/3/11 Phone:432-556-8	3730	Guidelines	diation per OC 5. SUBMIT REM	U Kules &	[
* Attach Additional Sheets If Necessary			L NOT LATER 1 4/7/11			2 R.P. 633			
			1						

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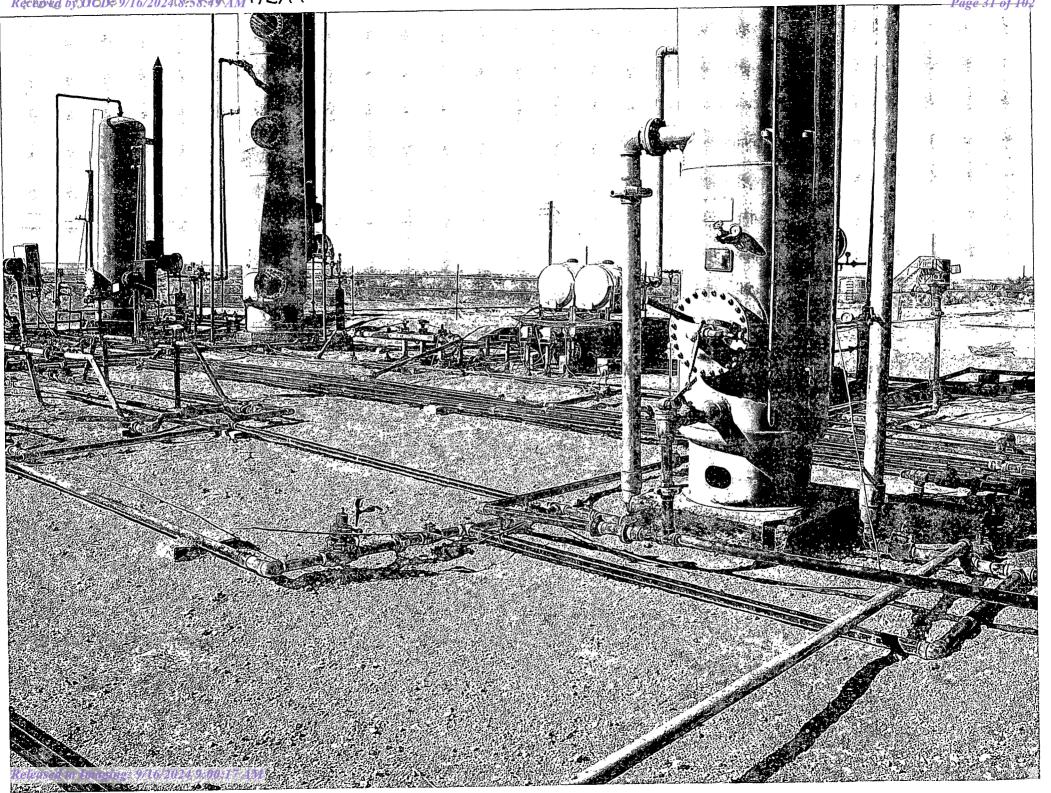
eceived by O	CD: 9/16/2								Page 30 of 102		
District I 1625 N. French District II	Dr., Hobbs, 1	NM 88240	RECE	EIVED St	ate of	New Mex	ico I Resources		Form C-141 Revised August 8, 2011		
811 S. First St., Artesia, NM 88210 District III									ppy to appropriate District Office in accordance with 19.15.29 NMAC.		
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750510CD ARTES 220 South St. Santa Fe, NM					h St. Franc	is Dr.		accordance with 19.15.29 NMAC.			
1220 S. St. Fran		a re, NM 8/1908			· · · ·		orrective A	ation	an an an table and a second		
1 TM	1333	30536				OPERAT			itial Report 🔲 Final Report		
Name of Company: BOPCO, L.P. 260737						Contact: To	ny Savoie				
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name: Golden 8 Federal Battery #1, the Well #1 was							No. 575-887-732 be: Exploration a				
P&A 2011				· ·							
Surface Ow	ner: Feder	al		Mineral C	Owner:	Federal	······	API	No. 30-015-26931		
Unit Letter	Section	Township	Range	LOCA Feet from the		N OF REI	LEASE Feet from the	East/West Lin	e County		
K	8	21S	29E	1650	South		2180	West	Eddy		
L		I		Latitude N 32		4 Longitude	e_W_104.007775	5			
						C OF REL		-			
Type of Rele	ase: Crude	oil and produc	ed water						e Recovered: 3 Bbls oil and 2 Bbls		
Source of Re	elease: Heat	er-treater fire	tube			Date and I-	Hour of Occurrence 5/13 Time unknow	e: Date a	Date and Hour of Discovery: Date 1/25/13 Time approximately 9:00 a.m.		
Was Immedi	ate Notice (Given?	Vac E] No 🛛 Not R	aguirad	If YES, To		11/25/			
By Whom?			Yes		equirec	Date and F	lour				
	Was a Watercourse Reached?					If YES, Vo	olume Impacting	the Watercourse	•		
If a Waterco	urse was Im	pacted, Descr									
	on the heat	em and Reme ter-treater dev			on was s	switched out of	f the vessel, a vac	uum truck was o	lispatched to the site to recover the		
Describe Are	a Affected	and Cleanup A	Action Tal								
The spill imp practicable in	pacted appro n the area ar	oximately 900 ound the vess	sq. ft. of t els and lin	he tank battery ea	diation	at the facility i		, reference spill	t had been cleaned up as far as report dated 2/16/11. The area will I.		
regulations a public health should their	Il operators or the envi operations h	are required t ronment. The nave failed to a	o report an acceptance adequately	nd/or file certain i ce of a C-141 repo investigate and r	release ort by t remedia	notifications a he NMOCD m ate contaminati	nd perform correc arked as "Final R ion that pose a thr	ctive actions for eport" does not eat to ground wa	oursuant to NMOCD rules and releases which may endanger relieve the operator of liability ater, surface water, human health or compliance with any other		
federal, state	, or local lav	ws and/or regu	ilations.		-		OIL CON	SFRVATIO	N DIVISION		
Signature	i Oru	Bau	ŵ								
Printed Nam	(T				Approved by	Environmental S	pecialist: Signed By	Wile Beans		
	•	nt and Remed	ation Spe	cialist		Approval Da	IQV 2 6 201		on Date:		
		e@basspet.coi				Conditions o		· ł			
Date:				: 432-556-8730		emediation p	oer OCD Rule & G BLM. <u>SUBMIT F</u>		Attached		
* Attach Addi	tional She	ets If Necess			- 11K	PROPO	sal no later t nbes 20	HAN:	2RP-2082		
					5	- acer					

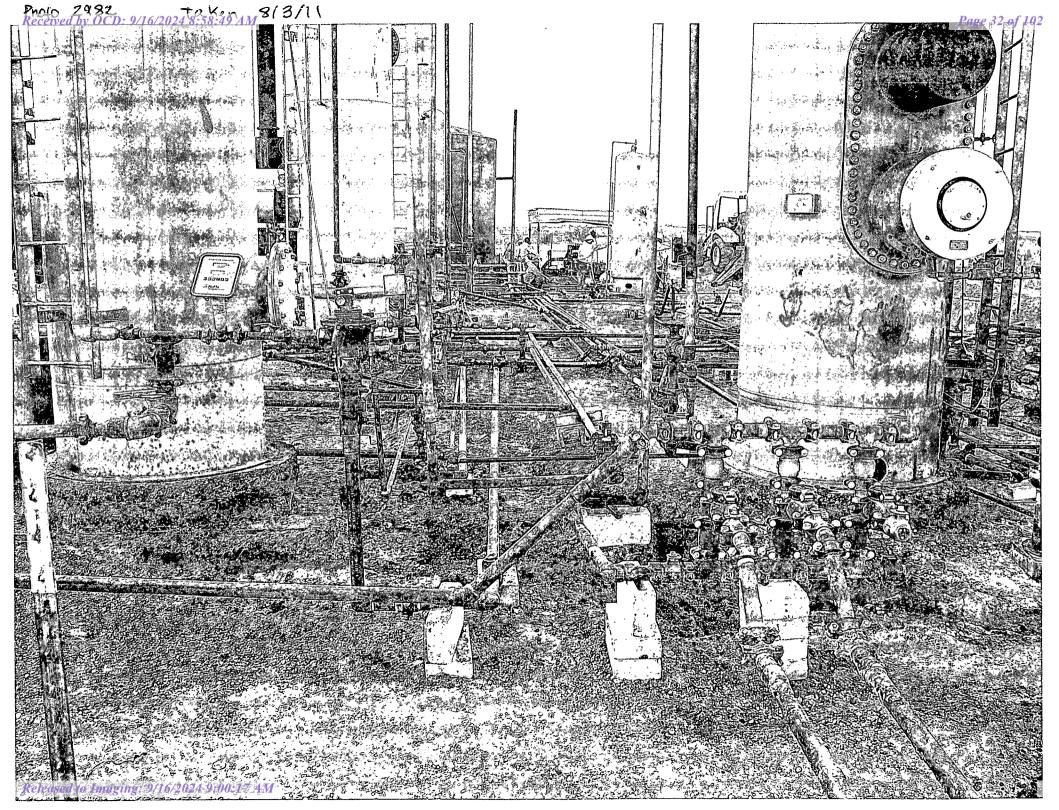
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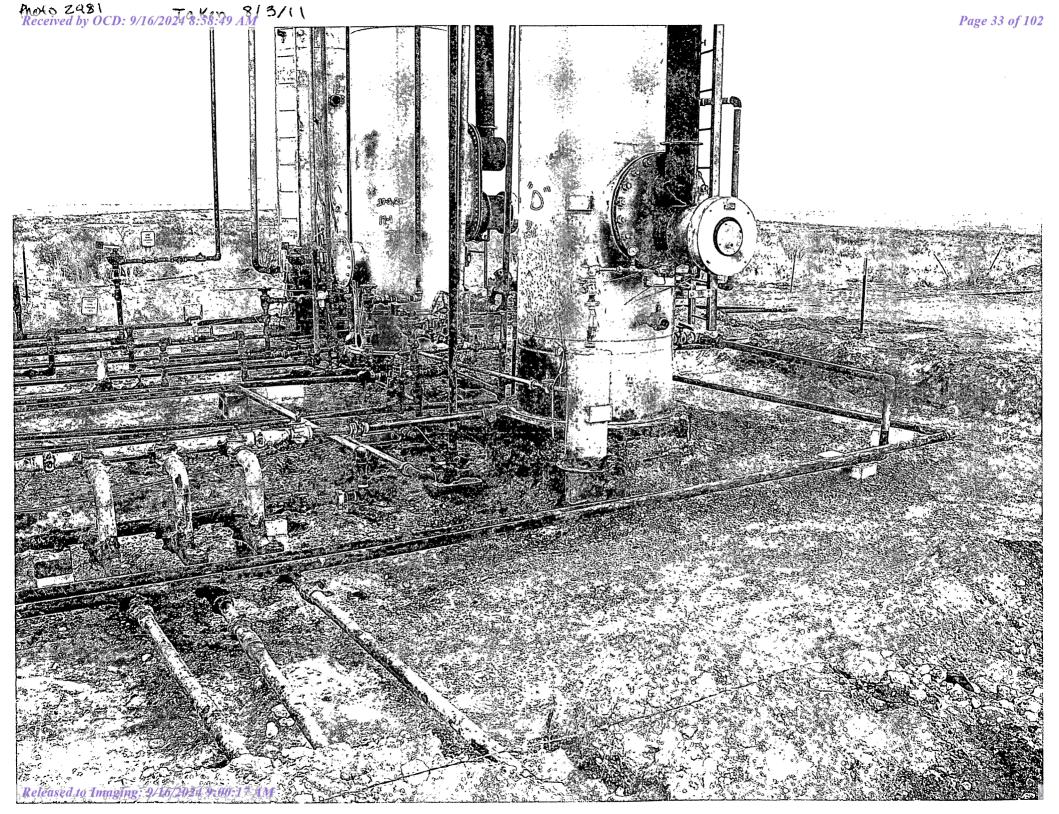
Released to Imaging: 9/16/2024 9:00:17 AM	Released	to Imaging	: 9/16/2024	9:00:17 AM
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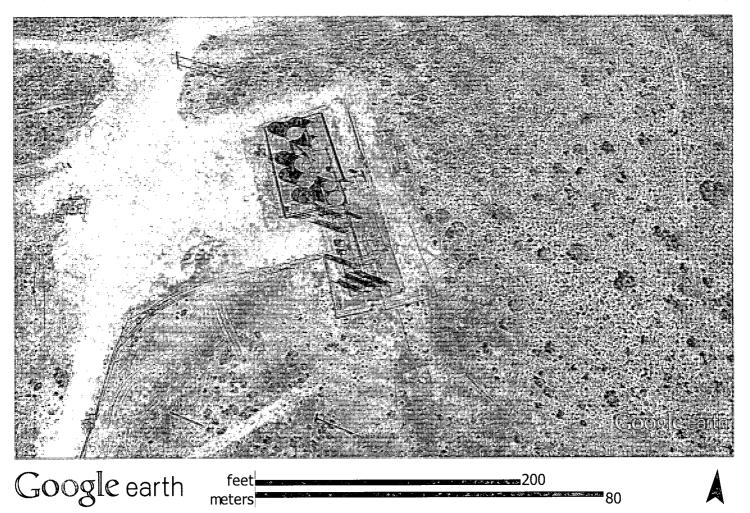
Rectioned by 3080= 9/16/20241895 KA9 AMP /2/11











ceived by OCD: 9/16/2024 8:58:49 AM				AR	TESIA DIS	TRICT	Page 35 of	
District I	State .	of New Mex	rico	А	UG 13	2014	0 ,	
625 N. French Dr., Hobbs, NM 88240 District II	Energy Minera						Form C- Revised August 8, 2	
11 S. First St., Artesia, NM 88210		C . I	RECEIV	ED				
District III 000 Rio Brazos Road, Aztec, NM 87410	Oil Cons	Subi	m Gopy ac	cordance v	riate District Offic with 19.15.29 NM			
District IV	1220 So							
220 S. St. Francis Dr., Santa Fe, NM 87505	Fe, NM 875	Se, NM 87505						
Re	elease Notificati	ion and Co	orrective A	ction				
NAB14221137219		OPERA		. .	🛛 Initia	al Report	🔲 Final Re	
Name of Company: BOPCO, L.P.	340737	Contact: To						
Address: 522 W. Mermod, Suite 704 Car			No. 575-887-732 pe: Exploration a		duction			
Facility Name: Golden 8 Federal Battery P&A 2011	#1, the well #1 was		pe. Exploration a		duction			
Surface Owner: Federal	Mineral Owne	er: Federal			API No	. 30-015-	26931	
			L E A SE					
Unit Letter Section Township Range		ON OF RE	Feet from the	East/V	Vest Line	County		
K 8 21S 29	1 1	uth	2180	West	Cot Enic	Eddy		
	Latitude <u>N 32.491</u>	141 Longitud	e <u>W 104.007775</u>	5				
	NATUR	RE OF REL	EASE					
Type of Release: Crude oil and produced wate	er		f Release: 3 Bbls o and 38 Bbls water	of	Volume H Bbls wate		1 Bbl. oil and 17	
Source of Release: Victaulic fitting on the pro-	oduction header.		Hour of Occurrence					
			Date 8/12/14 Time unknown8/12/14 Time approximately 10:30 a.m					
Was Immediate Notice Given?	No Not Requir		If YES, To Whom? d NMOCD Emergency #104					
By Whom? Tony Savoie			Hour: 8/12/14 at 1	2:10 n m	1.			
Was a Watercourse Reached?			olume Impacting					
Yes	🖾 No		811		CONOR		144	
If a Watercourse was Impacted, Describe Full	ly.*	i			CONSE		71 1	
				۸١	UG 13	2014		
Describe Cause of Problem and Remedial Ac			••••					
A Victaulic gasket failed on the production he		open valve was s	hut causing pressu				ne gasket.	
The gasket was replaced and the valve was re	turned to normal.			ł	RECEIV	ED		
Describe Area Affected and Cleanup Action								
The spill impacted approximately 1500 sq. ft. practicable in the area around the vessels and								
impacted by spill reference 2RP-2082. The ar								
from the previous two spills.	-						C	
I hereby certify that the information given abo	ove is true and complete	to the best of my	v knowledge and u	Inderstar	nd that nur	suant to NN	MOCD rules and	
regulations all operators are required to repor	t and/or file certain releas	se notifications a	and perform correc	ctive acti	ions for rel	eases whic	h may endanger	
public health or the environment. The accept								
should their operations have failed to adequat or the environment. In addition, NMOCD ac-	ely investigate and reme ceptance of a C_{141} repo	diate contaminat	tion that pose a thr	eat to gr	ound wate	r, surface v	water, human heal	
federal, state, or local laws and/or regulations				-coponsi				
_			OIL CON	SERV	ATION	DIVISI	ION	
Signature: 1 Gus Danie								
(Approved by	v Environmental S Signed By	pecialisi	l. K.			
Printed Name: Tony-Savoie			Signed By	11/2	r RIKA	Rede St.	•^	
Title: Waste Management and Remediation S	pecialist	Approval Da	ate: 5/14/14	·]	Expiration	Date:	H	
E-mail Address: tasavoie@basspet.com		Conditions of	of Approval:				. —	
		Rem	ediation per O	CD Rul	le &	Attache	ed 🛄	
Date:8/13/14	Phone: 432-556-8730	– Guidelir	nes. SUBMIT R	EMEDI	ATION			
Attach Additional Sheets If Necessary		PRO	POSAL NO LAT	ER TH	AN:	15	3P-2A39	
						L1	1- 2131	

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Released to Imaging: 9/16/2024 9:00:17 AM

Received by OCD: 9/16/2024 8:58:49 AM			N	ARTESIA DISTRICT			
District I 1625 N. French Dr., Hobbs, NM 88240 District II	State c Energy Minera	of New Mexi Is and Natural		MAR 1 5 2016 Form C-141 Revised August 8, 2011			
811 S. First SL, Artesia, NM 88210 District III		ervation Div		Submit 1 Convite appropriate District Office in			
1000 Rio Brazos Road, Aztec, NM 87410 District IV		th St. Franci		RECEIVED ance with 19.15.29 NMAC.			
1220 S. St. Francis Dr., Santa Fe, NM 87505		Fe, NM 875					
Relea	se Notificati			ction			
NAB11007837012	_	OPERAT	OR	🛛 Initial Report 🔲 Final Report			
Name of Company: BOPCO, L.P.	40137	Contact: Am	y Ruth				
Address: 522 W. Mermod, Suite 704 Carlsbac Facility Name: Golden 8 Federal #001	, N.M. 88220		lo. 575-887-732	29and Production			
			e: Exploration a				
Surface Owner: Federal	Mineral Owne	r: Federal		API No. 30-015-26931			
		ON OF REL	EASE				
	eet from the Nor 650 Sou	th/South Line th	Feet from the 2180	East/West Line County West Eddy			
Latit	ide <u>32.491242°</u>	Longitude	-104.008322	ю Ю			
		E OF RELE					
Type of Release Crude Oil			Release 30 bbls	Volume Recovered 7 bbls			
Source of Release Heater Gasket			Date and Hour of Occurrence Date and Hour of Discovery 2/1/2016 time unknown 2/1/2016				
Was Immediate Notice Given?	lo 🗌 Not Require	If YES, To Whom? d Mike Bratcher/Heather Patterson (NMOCD), Jim Amos (BLM)					
By Whom? Brad Blevins			our 2/2/2016 3				
Was a Watercourse Reached?	ю	If YES, Vo N/A	If YES, Volume Impacting the Watercourse. N/A				
If a Watercourse was Impacted, Describe Fully.* N/A		·					
Describe Cause of Problem and Remedial Action T Gasket seal in heater treater ruptured and released f gasket.		and pasture. Ope	erator switched o	ut vessels until repairs could be made to treater			
Describe Area Affected and Cleanup Action Taken Leak affected 3060 square feet of well pad and app		are feet of pasture	e to the east of th	e battery. Standing fluids were recovered.			
I hereby certify that the information given above is regulations all operators are required to report and/ public health or the environment. The acceptance of should their operations have failed to adequately in or the environment. In addition, NMOCD acceptant federal, state, or local laws and/or regulations.	or file certain releas of a C-141 report by vestigate and remed	e notifications ar the NMOCD mainted the contamination	nd perform correct arked as "Final R on that pose a thi	ctive actions for releases which may endanger deport" does not relieve the operator of liability reat to ground water, surface water, human health			
Signature: Auto		OIL CONSERVATION DIVISION					
Printed Name: Amy C. Ruth				1			
Title: EHS Remediation Specialist		Approval Dat	e: 7/1/1	U Expiration Date: NIH			
E-mail Address:ACRuth@basspet.com		Conditions of	Approval:				
Date: <u>3-15-2016</u> Phone: 43 * Attach Additional Sheets If Necessary	2-661-0571			N PROPOSAL NO			
' Attach Additional Sheets If Necessary		LATER TI		fallie 2RP. 3612			

Page 36 of 102

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Received by OCD: 9/16/2024 8:58:49 AM

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, March 15, 2016 2:59 PM
То:	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

Blevins, Bradley <bblevins@basspet.com></bblevins@basspet.com>
Tuesday, February 02, 2016 3:26 PM
Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Jim Amos
Blevins, Bradley; Ruth, Amy C.
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

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		NMC		ISERVA	TION		
District I	State of	New Mexico	ARTESIA	DISTRICT	Form C-141		
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First SL, Artesia, NM 88210	Energy Minerals and Natural Resources			9 2016	Revised August 8, 2011		
District III	Oil Conservation Division Submit 1 Copy to appropriate District O						
1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South	Oil Conservation Division 1220 South St. Francis Dr. RECEIVED					
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe	a Fe, NM 87505					
Relea	se Notification	and Corrective	Action	1			
NAB1433656856		OPERATOR		🛛 Initia	I Report 🔲 Final Report		
Name of Company: BOPCO, L.P.		Contact: Amy Ruth		· · · · · · · · · · · · · · · · · · ·			
Address: 522 W. Mermod, Suite 704 Carlsbad Facility Name: Golden Federal Battery #1		Telephone No. 575-887-7 Facility Type: Exploration		duction			
······································							
Surface Owner: Federal	Mineral Owner:	Federal	<u> </u>) API No	. 30-015-26931		
F		N OF RELEASE					
	eet from the North/ 667 South	South Line Feet from the 2300	E East/V West	Vest Line	County Eddy		
Latitu	1 de _ <u>32.491322°</u>	Longitude104.0078	<u>68°</u>				
	NATURE	OF RELEASE					
Type of Release Crude Oil		Volume of Release 32 bbls		Volume R 30 bbls	ecovered		
Source of Release 3 Phase Vessel		Date and Hour of Occurre 11/26/2016 time unknow		Date and I	Hour of Discovery 6 approx. 10 am by operator		
Was Immediate Notice Given?	_	If YES, To Whom?					
	lo 🔲 Not Required	(BLM)	-		d Jim Amos/Shelly Tucker		
By Whom? Amy Ruth (within 2 hours of being no Was a Watercourse Reached?	tified)	Date and Hour 11/28/20 If YES, Volume Impactin					
Yes X N	lo	N/A					
If a Watercourse was Impacted, Describe Fully.*			·				
N/A							
Describe Cause of Problem and Remedial Action T							
Unused 3 phase vessel re-fitted and returned to oper escaped mostly into zero permeability containment.		from vessel through pressu	re relief va	ive and leal	king Vic connections. Fluids		
comparing containing containing							
Describe Area Affected and Cleanup Action Taken.	*	, , , , , , , , , , , , , , , ,					
The leak affected a total of about 3,168 square feet		rmeability containment, and	misted pa	sture east o	f the location. Free standing		
liquids were recovered via vacuum truck and equip	ment, tanks, and liner	were power washed. Vessel	was isolat	ed.			
I hereby certify that the information given above is	true and complete to the	he best of my knowledge and	d understar	nd that purs	uant to NMOCD rules and		
regulations all operators are required to report and/o public health or the environment. The acceptance of	of a C-141 report by the	e NMOCD marked as "Final	Report" d	oes not reli	eve the operator of liability		
should their operations have failed to adequately in	vestigate and remediat	e contamination that pose a t	threat to gr	ound water	, surface water, human health		
or the environment. In addition, NMOCD acceptant federal, state, or local laws and/or regulations.	ice of a C-141 report d	oes not relieve the operator	of response	bility for c	ompliance with any other		
		OIL CO	NSERV	ATION	DIVISION		
Signature:				# 1			
Printed Name: Amy C. Ruth		Approved by Environ Bagness	l Specialist	Alter &	RAMENLAR		
Title: EHS Environmental Supervisor		Approval Date: 1129	110	Expiration 1	Date: N/A		
			+++				
E-mail Address: ACRuth@basspet.com		Conditions of Approval:			Attached 🛛		
Date: 11/29/2016 Phone: 432-6 Attach Additional Sheets If Necessary	61-0571						
Autori Auditional Sheets II Necessary					2RP-4011		

Bratcher, Mike, EMNRD

From:	Ruth, Amy C. <acruth@basspet.com></acruth@basspet.com>
Sent:	Tuesday, November 29, 2016 2:50 PM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	RE: Release Notification - Golden Federal Battery 11-26-16
Attachments:	Initial C-141 Golden Federal Battery 11-26-16.pdf

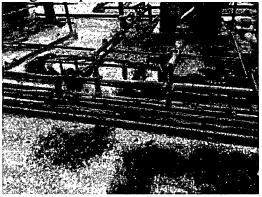
Please find the Initial form C-141 for the leak referenced below. Feel free to call me with any questions. Thank you!

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

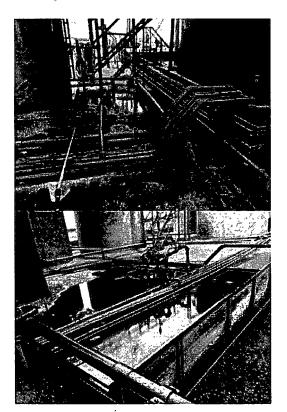
Was notified of the leak this morning. Power washing location equipment now and will have final volumes released/recovered in initial form C-141 after estimates finalized. Please call me with any questions. Thanks and have a good day.

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.



Received by OCD: 9/16/2024 8:58:49 AM





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></acruth@basspet.com>
Sent:	Monday, November 28, 2016 11:19 AM
То:	Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc:	jamos@blm.gov; Tucker, Shelly
Subject:	Release Notification - Golden Federal Battery 11-26-16
	RODAD

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ATTACHMENT 2

LABORATORY ANALTYICAL REPORTS



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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

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE		(Client Sampl	le ID: SS	1	
Project: Golden 8 Federal 1 Tank Ba	ittery		Collection 1	Date: 3/3	2018 9:30:00 AM	
Lab ID: 1803223-001	Matrix: SOIL Received Date: 3/6/2018 6:55:00 AM		5/2018 6:55:00 AM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 2:54:50 PM	36903
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analys	t: 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 RA	NGE				Analys	t: 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					Analys	t: 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

- * 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

3/7/2018 10:48:56 AM

1

36859

CLIENT: LTE			Client Sampl	e ID: SS	2			
Project: Golden 8 Federal 1 Tank I	Battery		Collection 1	Date: 3/3	2018 9:40:00 AM			
Lab ID: 1803223-002	Matrix:	SOIL	Received	Date: 3/6	: 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	43	30	mg/Kg	20	3/8/2018 3:07:15 PM	36903		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	6			Analys	t: TOM		
Diesel Range Organics (DRO)	220	9.6	mg/Kg	1	3/7/2018 6:39:24 PM	36866		
Motor Oil Range Organics (MRO)	200	48	mg/Kg	1	3/7/2018 6:39:24 PM	36866		
Surr: DNOP	105	70-130	%Rec	1	3/7/2018 6:39:24 PM	36866		
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: 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					Analys	t: 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		

80-120

%Rec

103

- * 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT	: LTE		Client Sample ID: SS3				
Project:	Golden 8 Federal 1 Tank I	Battery	Collection Date: 3/3/2018 9:50:00			3/2018 9:50:00 AM	
Lab ID:	1803223-003	Matrix:	SOIL	Received	Date: 3/6	5/2018 6:55:00 AM	
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: CJS
Chloride	e	ND	30	mg/Kg	20	3/8/2018 3:19:40 PM	36903
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS	6			Analys	t: TOM
Diesel F	Range Organics (DRO)	38	10	mg/Kg	1	3/8/2018 11:50:16 AM	36866
Motor C	Dil 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 ME	THOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasolin	e 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

ND

ND

ND

ND

104

30033	3/1/2010 11.12.30 AM		701160	13-310
NSB	Analyst:			
36859	3/7/2018 11:12:38 AM	1	mg/Kg	0.025
36859	3/7/2018 11:12:38 AM	1	mg/Kg	0.049
36859	3/7/2018 11:12:38 AM	1	mg/Kg	0.049
36859	3/7/2018 11:12:38 AM	1	mg/Kg	0.098
36859	3/7/2018 11:12:38 AM	1	%Rec	80-120

- * 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1803223

3/7/2018 11:36:26 AM

36859

36859

36859

36859

36859

36859

Analyst: NSB

1

1

1

1

1

1

Date Reported: 3/13/2018

CLIENT:	LTE			Client Sampl	e ID: SS	4						
Project:	Golden 8 Federal 1 Tank H	Battery	y Collection Date: 3/3/2018 10:00:00 AM									
Lab ID:	1803223-004	Matrix: S	SOIL	Received 1	Date: 3/6	5/2018 6:55:00 AM						
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch					
EPA MET	THOD 300.0: ANIONS					Analyst	t: CJS					
Chloride		ND	30	mg/Kg	20	3/8/2018 3:32:04 PM	36903					
EPA MET	THOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	t: TOM					
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	3/7/2018 8:07:29 PM	36866					
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	3/7/2018 8:07:29 PM	36866					
Surr: I	DNOP	93.0	70-130	%Rec	1	3/7/2018 8:07:29 PM	36866					
EPA MET	THOD 8015D: GASOLINE R	ANGE				Analyst	t: NSB					
Gasoline	e Range Organics (GRO)	ND	4.6	mg/Kg	1	3/7/2018 11:36:26 AM	36859					

15-316

0.023

0.046

0.046

0.092

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

95.2

ND

ND

ND

ND

101

- * 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

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803223

Date Reported: 3/13/2018

CLIENT: LTE		Client Sample ID: SS5									
Project: Golden 8 Federal 1 Tank Ba	ttery	y Collection Date: 3/3/2018 10:10:00 AM									
Lab ID: 1803223-005	Matrix:	SOIL	Received Date: 3/6/2018 6:55:00 AM								
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: CJS					
Chloride	72	30	mg/Kg	20	3/8/2018 3:44:29 PM	36903					
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			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					

- * 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

ZC SUMINIARY REPORT	WO#:	1803223
Hall Environmental Analysis Laboratory, Inc.		13-Mar-18

Client:	LTE						
Project:	Golden 8 Federal	1 Tank Batter	у				
Sample ID MB-36	903 Sam	pType: mblk	Te	stCode: EPA Method	300.0: Anions		
Client ID: PBS	Ba	tch ID: 36903		RunNo: 49642			
Prep Date: 3/8/2	018 Analysis	Date: 3/8/2018	3	SeqNo: 1606266	Units: mg/Kg		
Analyte	Result	PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RP[D RPDLimit	Qual
Chloride	ND	1.5					
Sample ID LCS-3	6903 Sam	pType: Ics	Tes	stCode: EPA Method	300.0: Anions		
Client ID: LCSS	Ba	tch ID: 36903		RunNo: 49642			
Prep Date: 3/8/2	018 Analysis	Date: 3/8/2018	3	SeqNo: 1606267	Units: mg/Kg		
Analyte	Result	PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RP[D 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
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 9

QC SUMMARY REPORT H

ZC SUMMART REFORT	WO#:	1803223
Hall Environmental Analysis Laboratory, Inc.		13-Mar-18
	-	

Client:LTEProject:Golden	8 Federal 1	Tank H	Battery							
Sample ID LCS-36866	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	S	SeqNo: 1	603693	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			
Sample ID MB-36866	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis D	ate: 3/	7/2018	5	SeqNo: 1	603694	Units: mg/H	٤g		
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. *
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 7 of 9

QC SUMMARY REPORT Hal

L		WO#:	1803223
Hall Env	vironmental Analysis Laboratory, Inc.		13-Mar-18
Client:	LTE		

Project: Golden	8 Federal 1	Tank I	Battery							
Sample ID MB-36859	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 36859			RunNo: 49627						
Prep Date: 3/6/2018	Analysis D	Date: 3/	7/2018	S	SeqNo: 1	604248	Units: mg/k	٢g		
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	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	n ID: 36	859	F	anNo: 4	9627				
Prep Date: 3/6/2018	Analysis D	Date: 3/	7/2018	S	eqNo: 1	604249	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 9

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

P	age	<i>53</i>	of	<i>102</i>
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JK I	WO#:	1803223	
sis Laboratory, Inc.		13-Mar-18	

Client:	LTE										
Project:	Golden 8	3 Federal 1	Tank E	Battery							
Sample ID MI	B-36859	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8021B: Volat	iles		
Client ID: PE	BS	Batch	h ID: 36	859	R	unNo: 4	9627				
Prep Date: 3	8/6/2018	Analysis D)ate: 3/	7/2018	S	eqNo: 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								
Surr: 4-Bromoflu	lorobenzene	0.90		1.000		90.2	80	120			
Sample ID LC	26 26950			-	-	<u> </u>		8021B: Volat			
	-2-20028	SampT	ype: LC	S	lest	Code: El	PA Method	8021B: Vola	lles		
Client ID: LC	25-30859 2SS		ype: LC h ID: 36			unNo: 4		8021B: Vola	lies		
			h ID: 36	859	R		9627	Units: mg/k			
	CSS	Batch	h ID: 36	859 7/2018	R	unNo: 4	9627			RPDLimit	Qual
Prep Date: 3	CSS	Batch Analysis D	h ID: 36	859 7/2018	R	unNo: 4 eqNo: 1	9627 604287	Units: mg/K	íg	RPDLimit	Qual
Prep Date: 3 Analyte	CSS	Batch Analysis D Result	h ID: 368 Date: 3/ PQL	859 7/2018 SPK value	R S SPK Ref Val	unNo: 4 eqNo: 1 %REC	9627 604287 LowLimit	Units: mg/K HighLimit	íg	RPDLimit	Qual
Prep Date: 3 Analyte Benzene	CSS	Batch Analysis D Result 0.96	h ID: 368 Date: 3/ PQL 0.025	859 7/2018 SPK value 1.000	R SPK Ref Val 0	unNo: 4 eqNo: 1 %REC 96.3	9627 604287 LowLimit 77.3	Units: mg/k HighLimit 128	íg	RPDLimit	Qual
Prep Date: 3 Analyte Benzene Toluene	CSS	Batch Analysis D Result 0.96 0.98	Date: 3/ PQL 0.025 0.050	859 7/2018 SPK value 1.000 1.000	R SPK Ref Val 0 0	unNo: 49 eqNo: 10 <u>%REC</u> 96.3 97.9	9627 604287 LowLimit 77.3 79.2	Units: mg/K HighLimit 128 125	íg	RPDLimit	Qual

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

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	49(iquero FAX;	01 Hawkins NE que, NM 87109 505-345-4107	Sar	nple Log-In Check List
Client Name: LTE MIDLAND	Work Order Number:	180	3223		RcptNo: 1
Received By: Anne Thorne	3/6/2018 6:55:00 AM			lone I.	
Completed By: Isaiah Ortiz Reviewed By: おん のろれんれど	3/6/2018 9:14:16 AM	L	I cheld By Deep 2/6/13 PDT		~ 75
<u>Chain of Custody</u>			5/6163 ***		
1. Is Chain of Custody complete?		Yes	\checkmark	No	Not Present
2. How was the sample delivered?		<u>Cou</u>	<u>rier</u>		
Log In 3. Was an attempt made to cool the samples?		Yes		No 🗌	NA 🗌
4. Were all samples received at a temperature or	f >0° C to 6.0°C	Yes		No 🗌	NA 🗀
5. Sample(s) in proper container(s)?		Yes		No 🔲	
6. Sufficient sample volume for indicated test(s)?		Yes	✓ N	No 🗀	
7. Are samples (except VOA and ONG) properly			_	No 🗌	
8. Was preservative added to bottles?	-	Yes		No 🗹	NA 🗔
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹
10. Were any sample containers received broken'		Yes		No 🗹	
11. Does paperwork match bottle labels?		Yes		No 🗌	# of preserved bottles checked for pH:
(Note discrepancies on chain of custody)			<u> </u>		(<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Co	ustody?	Yes	N	10 🗌	Adjusted?
13. Is it clear what analyses were requested?		Yes	✓ N	10	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓ N	10 🗌	Checked by:
<u>Special Handling (if applicable)</u>					
15. Was client notified of all discrepancies with the	s order?	Yes		No 🗌	NA 🗹
Person Notified:	Date:			i di bi dali di bisti dali dali di bisti dali dali di bisti dali dali dali dali dali dali dali dal	
By Whom:	Via:] eMa	ail 🗌 Phone	📋 Fax	In Person
Regarding:					
Client Instructions:					
16. Additional remarks:					
Cooler Information Cooler No Temp °C Condition Sea 1 1.0 Yes	I Intact Seal No Se	eal Da	ate Signe	ed By	

•

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Page 1 of 1

Mailing Addres 3360 N - Phone #: 9 email or Fax#: 0 A/OC Package C Standard Accreditation C NELAP D EDD (Type)	Mailing Address:	Mailing Address: M. W. W. W. M.	17X Bld 165 # 1 178 8 Henu-Corry svel 4 (Full Validation)	Project Name: Project Name: Project #: Project #: Project Manager: Project Manager: Project Manager: Sampler: Adive.n Sampler: Sampler:	roject Name: roject Name: roject Name: roject # roject Manager: Adinen Balue ampler: AC ample Temperature:	□ Rush Pederal #1 Tank 26931 26931 Batkry C Batur C Ves No Aure	MTBE + TMB's (8021)		ANALYSIS LABORATORY www.hallenvironmental.com www.hallenvironmental.com www.hallenvironmental.com kins NE - Albuquerque. NM 87109 345-3975 Fax 505-345-4107 Barlocks/ 8082 PCB's Barlocks/ 8082 PCB's	MALYSIS AB www.hallenvironmental.com www.hallenvironmental.com ins NE - Albuquerque. NM Bathod 504.1) - Albuquerque. NM Bathod 504.1) - Albuquerque. NM Bathod 504.1) - Albuquerque. NM	Albuquerque, NM 87 Albuquerque, NM 87 Albuquerque, NM 87 Fax 505-345-4107 (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) Bellicides / 8082 PCB's Analysis Request (T,O(A)) (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)		0 E M 4 4 (40V-imai	B 1208 X	1.a25 PV	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.		08 HAT	ы) ваз			8260B (71.8	GNIGN	
3/3	0930	5	始 SS	1-462	cos	8							~	$\frac{1}{\sqrt{1-1}}$	X	
-	0460		5.5.2	_		eas	-					_		-		
-	09.50	/	SS 3	-		003					-					
-	aall		Ssy		-	ь 8						-		-		
3	0101	>	525	~	>	005								>	× N	
				<	1 1											
Date: 5/4 Date:	Time. 17.60 Time:	Relinquished by: Relingeshed by:	id pa	Received by /	CM	3/4/ 1200 Date Time	Remarks. P.J.H.	H Z R P	249-6521	M-	-11	1 T	26-2439	he	5	
6	1224	1	2110	4	1	3/5/K 1720	म	922	- 7028	po						

Received by OCD: 9/16/2024 8:58:49 AM



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

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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: LTE

Project:

Analytical Report Lab Order 1803221

Golden 8 Federal 1 RP 2RP-3612

Date Reported: 3/14/2018

Client Sample ID: SS1 Collection Date: 3/3/2018 8:40:00 AM

Received Date: 3/6/2018 6:55:00 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	6			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 RAI	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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- 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 S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT	: LTE			Client Sampl	e ID: SS	2	
Project:	Golden 8 Federal 1 RP 2RI	P-3612		Collection I	Date: 3/3	3/2018 8:50:00 AM	
Lab ID:	1803221-002	Matrix: S	SOIL	Received I	Date: 3/6	5/2018 6:55:00 AM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	: CJS
Chloride		1700	75	mg/Kg	50	3/9/2018 6:59:22 PM	36886
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analys	: TOM
Diesel R	Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2018 11:41:09 AM	36866
Motor O	il 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 ME	THOD 8015D: GASOLINE R	ANGE				Analys	: NSB
Gasoline	e Range Organics (GRO)	ND	4.7	ma/Ka	1	3/7/2018 2:47:38 PM	36859

					7 (10) 90	. NOD
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

- * 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 S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

CLIENT	: LTE			Client Sampl	e ID: SS	3	
Project:	Golden 8 Federal 1 RP 2RF	P-3612		Collection 1	Date: 3/3	2018 9:00:00 AM	
Lab ID:	1803221-003	Matrix: S	SOIL	Received Date: 3/6/2018 6:55:00 AM			
Analyses		Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	CJS
Chloride	9	430	30	mg/Kg	20	3/8/2018 12:01:08 PM	36903
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: TOM
Diesel R	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 RANG	θE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: BFB	91.9	15-316	%Rec	1	3/7/2018 7:04:03 PM	36859
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Toluene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Ethylbenzene	ND	0.048	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Xylenes, Total	ND	0.096	mg/Kg	1	3/7/2018 7:04:03 PM	36859
Surr: 4-Bromofluorobenzene	90.5	80-120	%Rec	1	3/7/2018 7:04:03 PM	36859

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

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

Batch

CJS 36903 TOM

36866

36866

36866

36859

36859

36859

36859

36859

36859

36859

Analyst: NSB

Analyst: NSB

Analytical Report

Lab Order 1803221

Date Reported: 3/14/2018

3/7/2018 2:58:59 PM

3/7/2018 2:58:59 PM

3/7/2018 2:58:59 PM

3/7/2018 7:27:17 PM

						-			
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:	Lab ID: 1803221-004 Matrix:			Received Date: 3/6/2018 6:55:00 AM					
Analyses		Result	PQL Qu	al Units	DF Date Analyzed				
EPA ME	THOD 300.0: ANIONS				Analyst:				
Chloride	9	ND	30	mg/Kg	20 3/8/2018 12:13:32 PM				
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS			Analyst:				

9.9

50

5.0

70-130

15-316

0.025

0.050

0.050

0.10

80-120

ND

71

91.8

ND

90.1

ND

ND

ND

ND

88.5

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

- * 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
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

36866

36859

36859

36859

36859

36859

36859

36859

Analyst: NSB

Analyst: NSB

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1803221

3/7/2018 8:51:18 PM

3/7/2018 7:50:27 PM

Date Reported: 3/14/2018

	-	_			-	
CLIENT: LTE			Client Sampl	e ID: SS	5	
Project:Golden 8 Federal 1 RP 2RP-3612Collection Date: 3/3/2018				/2018 9:20:00 AM		
Lab ID: 1803221-005	Matrix: SOIL Received Date: 3/6/2018 6:55:00				/2018 6:55:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	ND	30	mg/Kg	20	3/8/2018 12:50:46 PM	36903
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analys	t: 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

70-130

15-316

0.024

0.048

0.048

0.097

80-120

4.8

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

77.2

ND

91.2

ND

ND

ND

ND

90.4

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

Client:

Project:

QC SUMMARY REPORT Hall Environment

	I KEPUKI		WO#:	1803221
onmen	tal Analysis Laborato	ory, Inc.		14-Mar-18
LTE				
Golden	8 Federal 1 RP 2RP-3612			
6886	SampType: mblk	TestCode: EPA Method 300.0: Anions		

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		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual	
Chloride	15 1.5 15.00	0 101 90	110		
Sample ID MB-36903	SampType: mblk TestCode: EPA Method 300.0: Anions				
Jampie ID 10-30303	Sampiype. IIIDIK	restoude. EFA Wethou	Sould: Amons		
Client ID: PBS	Batch ID: 36903	RunNo: 49642	Store Amons		
			Units: mg/Kg		
Client ID: PBS	Batch ID: 36903 Analysis Date: 3/8/2018	RunNo: 49642		RPDLimit Qual	
Client ID: PBS Prep Date: 3/8/2018 Analyte	Batch ID: 36903 Analysis Date: 3/8/2018	RunNo: 49642 SeqNo: 1606266	Units: mg/Kg	RPDLimit Qual	
Client ID: PBS Prep Date: 3/8/2018	Batch ID: 36903 Analysis Date: 3/8/2018 Result PQL SPK value	RunNo: 49642 SeqNo: 1606266	Units: mg/Kg HighLimit %RPD	RPDLimit Qual	
Client ID: PBS Prep Date: 3/8/2018 Analyte Chloride	Batch ID: 36903 Analysis Date: 3/8/2018 Result PQL SPK value ND 1.5	RunNo: 49642 SeqNo: 1606266 SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD	RPDLimit Qual	
Client ID: PBS Prep Date: 3/8/2018 Analyte Chloride Sample ID LCS-36903	Batch ID: 36903 Analysis Date: 3/8/2018 Result PQL SPK value ND 1.5 SampType: Ics	RunNo: 49642 SeqNo: 1606266 SPK Ref Val %REC LowLimit TestCode: EPA Method	Units: mg/Kg HighLimit %RPD	RPDLimit Qual	
Client ID: PBS Prep Date: 3/8/2018 Analyte Chloride Sample ID LCS-36903 Client ID: LCSS	Batch ID: 36903 Analysis Date: 3/8/2018 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 36903 Analysis Date: 3/8/2018	RunNo: 49642 SeqNo: 1606266 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 49642	Units: mg/Kg HighLimit %RPD 300.0: Anions	RPDLimit Qual	

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 6 of 9

QC SUMMARY REPORT H

Page 63 of 102

LC SUMMARY REPORT	WO#:	1803221
Iall Environmental Analysis Laboratory, Inc.		14-Mar-18

Client: LTE										
Project: Golden	8 Federal 1	RP 2RI	P-3612							
Sample ID LCS-36866	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis Da	ate: 3/	7/2018	5	SeqNo: 1	603693	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	3.8		5.000		75.4	70	130			
Sample ID MB-36866	SampTy	/pe: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 36	866	F	RunNo: 4	9602				
Prep Date: 3/6/2018	Analysis Da	ate: 3/	7/2018	5	SeqNo: 1	603694	Units: mg/h	ζg		
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
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 9

QC SUMMARY REPORT Hall E

	WO#:	1803221
Environmental Analysis Laboratory, Inc.		14-Mar-18

Client: LTE	8 Federal 1 RP	DD 2612								
Project: Golden	o reuerar i Kr	2 KF- 3012								
Sample ID MB-36859	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Gasc	oline Rang	e		
Client ID: PBS	Batch ID:	36859	F	RunNo: 4	9627					
Prep Date: 3/6/2018 Analysis Date: 3/7/2018 SeqNo: 1604248 Units: mg/Kg										
Analyte	Result PC	L 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	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e		
Client ID: LCSS	Batch ID:	36859	F	RunNo: 4	9627					
Prep Date: 3/6/2018	Analysis Date:	3/7/2018	S	SeqNo: 1	604249	Units: mg/H	٤g			
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	5.0 25.00	0	112	75.9	131				
Surr: BFB	1100	1000		108	15	316				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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
- S % 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
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 9

LTE

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	65	of	<i>102</i>
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1803221	WO#:
14-Mar-18	

Client:	
Cheme.	

Project: Golden	n 8 Federal 1	RP 2R	P-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 E	Date: 3/											
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: Volat	tiles					
Client ID: LCSS Batch ID: 36859 RunNo: 49627													
Client ID. LC33	Batc	h ID: 36	859	R	unNo: 4	9627							
Prep Date: 3/6/2018	Batc Analysis [tunNo: 4 SeqNo: 1		Units: mg/k	ζg					
			7/2018				Units: mg/k HighLimit	′g %RPD	RPDLimit	Qual			
Prep Date: 3/6/2018	Analysis [Date: 3/	7/2018	S	eqNo: 1	604287	•	•	RPDLimit	Qual			
Prep Date: 3/6/2018 Analyte Benzene	Analysis I Result	Date: 3/	7/2018 SPK value	SPK Ref Val	eqNo: 1 %REC	604287 LowLimit	HighLimit	•	RPDLimit	Qual			
Prep Date: 3/6/2018 Analyte	Analysis E Result 0.96	Date: 3/ PQL 0.025	7/2018 SPK value 1.000	SPK Ref Val	eqNo: 1 %REC 96.3	604287 LowLimit 77.3	HighLimit 128	•	RPDLimit	Qual			
Prep Date: 3/6/2018 Analyte Benzene Toluene	Analysis I Result 0.96 0.98	Date: 3/ PQL 0.025 0.050	7/2018 SPK value 1.000 1.000	SPK Ref Val 0 0	6eqNo: 1 %REC 96.3 97.9	604287 LowLimit 77.3 79.2	HighLimit 128 125	•	RPDLimit	Qual			

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

Page 9 of 9

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environm TEL: 505-345 Website: wy	490 Albuquerq -3975 FAX:	l Hawkins N ue, NM 871(⁷ ⁰⁹ Sai	P Sample Log-In Check List					
Client Name: LTE MIDLAND	Work Order Nur	mber: 1803	3221		Rcp	tNo: 1				
Received By: Anne Thorne	3/6/2018 6:55:00	АМ		Anne A						
Completed By: Isaiah Ortiz	3/6/2018 8:25:04	AM		IG						
Reviewed By: Sple 031061(8		LB: C	DS							
Chain of Custody										
1. Is Chain of Custody complete?		Yes		No 🗌	Not Present					
2. How was the sample delivered?		<u>Cour</u>	ier							
Log In										
3. Was an attempt made to cool the samples?		Yes		No 🗌	NA [
Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No 🗌	NA [
5. Sample(s) in proper container(s)?		Yes	\checkmark	No 🗌						
6. Sufficient sample volume for indicated test(s)?	Yes		No 🗌						
7. Are samples (except VOA and ONG) proper	y preserved?	Yes		No 🗌						
8. Was preservative added to bottles?		Yes		No 🗹	NA [
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🖢					
0. Were any sample containers received broke	n?	Yes		No 🗹	# of preserved					
1. Does paperwork match bottle labels?		Yes	✓	No 🗌	bottles checked for pH:					
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain of	Custodu?	Yes	~	No 🗌	Adjusted?	2 or >12 unless noted)				
3. Is it clear what analyses were requested?	Gustouy					·				
4. Were all holding times able to be met? (If no, notify customer for authorization.)				No 🗌	Checked by	/: 				
pecial Handling (if applicable)										
5. Was client notified of all discrepancies with	his order?	Yes	:	No 🗌	NA					
Person Notified:	Date	ə: [
By Whom:	Via:	eMa	il 🗌 Phor	ne 🔲 Fax	In Person					
Regarding:						÷				
Client Instructions:										
Additional remarks:										
7. <u>Cooler Information</u>										
Cooler No Temp °C Condition Set 1 1.0 Good Yes	eal Intact Seal No	Seal Da	te Sig	gned By	4					
l' i.º Good tes	· ·]					

Page 1 of 1

5	ANAL VERS LABORATORY	6	Albuquerque, NM 87109	5 Fax 505-345-4107	Analysis Request		03,109	11) 22 / 2 1085	8/2 (A- G	sleta sebio (A (A (A (A) (A) (A) (A) (A) (A) (A) (A	P.H.K. (83 8 (8 %) 8 (7 %) 8 (7 %) 8 (7 %) 8 7 % 7 % 7 % 7 % 7 % 7 % 7 % 7 % 7 % 7 %	XXX				7 7 7			ige 6
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Imaging: 9/ 0/2024 9:00 •

Analytical Report 578604

for LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal CTB

09-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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

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



09-MAR-18

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

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

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 578604. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 578604 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jession Vermer

Jessica Kramer Project Assistant

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

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



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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

Page 71 of 102

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal CTB

Project ID: Work Order Number(s): 578604

ATORIES

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

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3043201 BTEX by EPA 8021B

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

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

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

Samples affected are: 578604-005.

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





Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578604

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal CTB



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

	Lab Id:	578604-0	001	578604-0	002	578604-0	003	578604-	004	578604-0	005	
An alugia Do au osta d	Field Id:	SS01		SS02		SS03		SS04	Ļ	SS05		
Analysis Requested	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.%

fession kramer

Jessica Kramer Project Assistant

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LT Environmental, Inc., Arvada, CO

Sample Id:SS01Lab Sample Id:578604-001		Matrix: Date Collec	Soil ted: 03.06.18 14.00		Date Received:0	3.08.18 09.15	i
Analytical Method:Inorganic Anions by EPATech:OJSAnalyst:OJSSeq Number:3043151	300	Date Prep:	03.08.18 13.00		Prep Method: E % Moisture: Basis: V	300P Vet Weight	
Parameter Cas N	umber	Result	RL	Units	Analysis Date	Flag	Dil
Chloride 16887-0	0-6	17.3	4.99	mg/kg	03.08.18 16.11		1

Analytical Method: TPH by SW801	5 Mod				Р	Prep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 03.08	18 10.00	В	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<74.9	74.9		mg/kg	03.08.18 11.56	U	5
Diesel Range Organics (DRO)	C10C28DRO	7100	74.9		mg/kg	03.08.18 11.56		5
Oil Range Hydrocarbons (ORO)	PHCG2835	686	74.9		mg/kg	03.08.18 11.56		5
Total TPH	PHC635	7790	74.9		mg/kg	03.08.18 11.56		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-135	03.08.18 11.56		
o-Terphenyl		84-15-1	110	%	70-135	03.08.18 11.56		





LT Environmental, Inc., Arvada, CO

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

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	03.09.18 10.55		
4-Bromofluorobenzene		460-00-4	118	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id: Lab Sample I	SS02 d: 578604-002		Matrix: Date Colle	Soil cted: 03.06.18 14.10	Date Received:03.08.18 09.			
Analytical M Tech:	ethod: Inorganic Anior OJS	ns by EPA 300				Prep Method: E3	00P	
Analyst: Seq Number:	OJS		Date Prep:	03.08.18 13.00			t Weight	
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 SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	: 03.08	18 10.00	В	asis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 12.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	1540	15.0		mg/kg	03.08.18 12.22		1
Oil Range Hydrocarbons (ORO)	PHCG2835	82.7	15.0		mg/kg	03.08.18 12.22		1
Total TPH	PHC635	1620	15.0		mg/kg	03.08.18 12.22		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	03.08.18 12.22		
o-Terphenyl	5	84-15-1	129	%	70-135	03.08.18 12.22		





LT Environmental, Inc., Arvada, CO

Sample Id: SS02 Lab Sample Id: 578604-002	Matrix: Date Collecte	Soil cd: 03.06.18 14.10	Date Receive	ed:03.08.18 09.15
Analytical Method: BTEX by EPA 8021B Tech: ALJ			Prep Method % Moisture:	l: SW5030B
Analyst: ALJ Seq Number: 3043201	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

Sample Id: SS03 Lab Sample Id: 578604-0	Matrix: Date Collec	Soil ted: 03.06.18 14.20	Date Received:03.08.18			5	
Analytical Method: Inorg Tech: OJS Analyst: OJS Seq Number: 3043151	ganic Anions by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight	
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 SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	Moisture:		
Analyst: ARM		Date Pre	p: 03.08	18 10.00	В	asis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.08.18 12.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	1700	14.9		mg/kg	03.08.18 12.49		1
Oil Range Hydrocarbons (ORO)	PHCG2835	89.9	14.9		mg/kg	03.08.18 12.49		1
Total TPH	PHC635	1790	14.9		mg/kg	03.08.18 12.49		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	03.08.18 12.49		
o-Terphenyl		84-15-1	130	%	70-135	03.08.18 12.49		





LT Environmental, Inc., Arvada, CO

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

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	80	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id:SS04Lab Sample Id:578604-004		Matrix: Date Collec	Soil cted: 03.06.18 14.30		Date Received:03.08.18 09.15			
Analytical Method:Inorganic AnionTech:OJSAnalyst:OJSSeq Number:3043151	s by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	<4.93	4.93	mg/kg	03.08.18 16.39	U	1	

Analytical Method: TPH by SW801	5 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM				18 10.00	E	Basis: We	t Weight	
Seq Number: 3043122								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.08.18 13.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	155	15.0		mg/kg	03.08.18 13.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	26.4	15.0		mg/kg	03.08.18 13.17		1
Total TPH	PHC635	181	15.0		mg/kg	03.08.18 13.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	03.08.18 13.17		
o-Terphenyl		84-15-1	118	%	70-135	03.08.18 13.17		





LT Environmental, Inc., Arvada, CO

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

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.09.18 10.55	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.09.18 10.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	127	%	70-130	03.09.18 10.55		
1,4-Difluorobenzene		540-36-3	89	%	70-130	03.09.18 10.55		





LT Environmental, Inc., Arvada, CO

Sample Id: SS05 Lab Sample Id: 578604-005		Matrix: Date Collec	Soil cted: 03.06.18 14.40		Date Received:03.08.18 09.15				
Analytical Method: Inorganic Anion Tech: OJS Analyst: OJS Seq Number: 3043151	s by EPA 300	Date Prep:	03.08.18 13.00		Prep Method: E30 % Moisture: Basis: We	00P t Weight			
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 SW801	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	Moisture:		
Analyst: ARM	j =			.18 10.00	В	asis: We	t Weight	
Seq Number: 3043122		Date Prep: 03.08.18 10.00						
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

Sample Id: SS05	Matrix:	Soil	Date Receive	d:03.08.18 09.15
Lab Sample Id: 578604-005	Date Collected	1:03.06.18 14.40		
Analytical Method: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech: ALJ			% Moisture:	
Analyst: ALJ	Date Prep:	03.08.18 16.45	Basis:	Wet Weight
Seq Number: 3043201				

Parameter	Cas Number	Result	ılt 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		



LABORATORIES

Flagging Criteria



Page 83 of 102

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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





LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method:	Inorganic Anions b	y EPA 300						Pre	ep Metho	d: E30	00P	
Seq Number:				Matrix:	Solid		Date Prep: 03.08.18				08.18	
MB Sample Id:	7640419-1-BLK		LCS San	nple Id:	7640419-1	I-BKS		LCSE	Sample	Id: 764	0419-1-BSD	
		~										
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD F	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3043151			Matrix:	Soil				Date Pre	p: 03.0	08.18	
Parent Sample Id:	578424-003 MS Sample Id: 578424-003 S					MSI	O Sample	Id: 578	424-003 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	103	249	360	103	360	103	90-110	0	20	mg/kg	03.08.18 14:41	

Analytical Method:	Inorganic Anions b	y EPA 300						Pı	rep Meth	od: E30	OP 90	
Seq Number:	3043151			Matrix:	Soil				Date Pr	ep: 03.0	8.18	
Parent Sample Id:	578425-005		MS Sar	nple Id:	578425-00)5 S		MS	D Sample	e Id: 5784	425-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	<4.97	249	250	100	250	100	90-110	0	20	mg/kg	03.08.18 15:55	

Analytical Method:	TPH by S	W8015 M	od]	Prep Method	i: TXI	005P	
Seq Number:	3043122				Matrix:	Solid				Date Prep	p: 03.0	07.18	
MB Sample Id:	7640359-1	-BLK		LCS Sar	nple Id:	7640359-	1-BKS		LC	SD Sample	Id: 764	0359-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPE	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	986	99	971	97	70-135	2	35	mg/kg	03.08.18 02:51	
Diesel Range Organics ((DRO)	<15.0	1000	1020	102	996	100	70-135	2	35	mg/kg	03.08.18 02:51	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		103		1	10		107		7	70-135	%	03.08.18 02:51	
o-Terphenyl		103		1	09		104		2	70-135	%	03.08.18 02:51	

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

.





LT Environmental, Inc.

Golden 8 Federal CTB

Analytical Method: Seq Number:	3043122		lod		Matrix:					Prep Method Date Prep	o: 03.0	1005P 17.18	
Parent Sample Id:	578424-00	01		MS Sar	nple Id:	578424-00)1 S		M	SD Sample I	ld: 578	424-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (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					AS Rec	MS Flag	MSD %Re		-	Limits	Units	Analysis Date	
1-Chlorooctane				1	17		117		7	0-135	%	03.08.18 04:10	
o-Terphenyl				1	09		112		7	0-135	%	03.08.18 04:10	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3043201 7640464-1-BLK	1B	l LCS San	Matrix: nple Id:		1-BKS			Prep Method Date Prep CSD Sample	p: 03.0	5030B 98.18 0464-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.0883	87	0.0848	84	70-130	4	35	mg/kg	03.09.18 10:55	
Toluene	< 0.00201	0.101	0.0900	89	0.0930	92	70-130	3	35	mg/kg	03.09.18 10:55	
Ethylbenzene	< 0.00201	0.101	0.0937	93	0.0974	96	70-130	4	35	mg/kg	03.09.18 10:55	
m,p-Xylenes	< 0.00402	0.201	0.182	91	0.189	94	70-130	4	35	mg/kg	03.09.18 10:55	
o-Xylene	< 0.00201	0.101	0.0921	91	0.0957	95	70-130	4	35	mg/kg	03.09.18 10:55	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		10	01		95			70-130	%	03.09.18 10:55	
4-Bromofluorobenzene	118		1.	30		122			70-130	%	03.09.18 10:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3043201 578604-005	1B	MS San	Matrix: nple Id:		05 S			Prep Metho Date Pre SD Sample	p: 03.0	5030B 98.18 604-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPE	RPD Limi	t 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	Х
Ethylbenzene	< 0.00199	0.0996	0.0601	60	0.0745	75	70-130	21	35	mg/kg	03.09.18 10:55	Х
m,p-Xylenes	< 0.00398	0.199	0.112	56	0.143	72	70-130	24	35	mg/kg	03.09.18 10:55	Х
o-Xylene	< 0.00199	0.0996	0.0556	56	0.0717	72	70-130	25	35	mg/kg	03.09.18 10:55	Х
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			7	78		70		7	70-130	%	03.09.18 10:55	
4-Bromofluorobenzene			1	24		124		7	70-130	%	03.09.18 10:55	

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

.

Received by O	CD: 9/16/2		58:4	9 11	M	A		-	-	-	1		_													1	Page	86 oj	<i>f 102</i>
is or expenses incured by the client if such and reling e enforced unless previously negotialed under a	Relinquished by: Relinquished by:	Relinquished by Simpler:	TAT Starts Day received by Lab. if received by 5-00 pm	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Furnaround Time (Business days)	10	9	8	7		5 SSOS			cu>> < < < < < < < < < < < < < < < < < <	1055	No. Field ID / Point of Collection	Adron Williamson	Adrian Baker	Abaker@ltenv.com	3300 N. A Street Bldg 1 Suite 103 Midland TX 79705 Email:	Company Address:	Company Name / Branch: LTE / Permian	Client / Reporting Information		Dallas Texas (214-902-0300)	Setting the Standard since 1990 Stafford, Texas (281-240-4200)	LABORATORIES
uisinment of samples constituties a valid pu ss are due to circumstances beyond the co fully executed client confract.	Date Time:	SAMPLE CUSTODY MUST BE D	BSTANDARD TAT	Contract TAT	7 Day TAT	5 Day TAT	5									"LIMC	Depth			Br	432-704-5178	dland TX 79705			on			06	
Temp: 10. 5 CF:(0-6: -0.2°C) (6-23: +0.2°C) Corrected Temp: 5,	- qu	OCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Received By: Relinquished By:	1		Level III Std QC+ Forms TRRP Level IV	Level II Std QC						A A A A A ONLY A	1930	1420	1410 1 1 0141	3.6-18 1400 S 1	Matrix bottles HCI NaOH/Acetate HNO3 H2SO4 NaOH NaOH NaOH NaOH NaOH NaOH NaOH NaOH	Collection Number of preserved	30-015-26931 ethoo	Kyle Littrell	21	NM	Project Location: Gridden & Federal CTB	on		WWW.Xenco.com	Midland, Texas (432-704-5251) Phoenix, Arizor	rage Of	0
IR ID:R-8 The cost of samples and shall not assume any responsibility for any too but not analyzed will be involced at \$5 per sample. These terms	915 Received By: Received By: A On Lee Cooler Town	FED-EX / UPS: Tracking #			ATT 30-015-26931	C III I										Field Comments		A = Air	WI = Wipe	SL = Sludge OW =Ocean/Sea Water	P = Product SW = Surface water	S = Soll/Sed/Solid GW =Ground Water	W=Water	Matrix Codes		Xenco Job # NYSSA	Phoenix, Arizona (480-355-0900)		

Received by OCD: 9/16/2024 8:58:49 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/08/2018 09:15:00 AM Temperature Measuring device used : R8 Work Order #: 578604 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 5.1 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes TPH in bulk container #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

#15 Sufficient sample amount for indicated test(s)?

#18 Water VOC samples have zero headspace?

#16 All samples received within hold time?

#17 Subcontract of sample(s)?

Katie Lowe

Date: 03/08/2018

Yes

Yes

Yes

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 03/08/2018

Released to Imaging: 9/16/2024 9:00:17 AM

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)



XENCO

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,

Jession Vermer

Jessica Kramer Project Assistant

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

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

Page 2 of 12







Sample Cross Reference 578893



LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

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

-	LABORATO

Sample Id

SS06

.



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Golden 8 Federal Battery #1

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



Project Id:Contact:Adrian BakerProject Location:NM

Certificate of Analysis Summary 578893

LT Environmental, Inc., Arvada, CO Project Name: Golden 8 Federal Battery #1



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

	Lab Id:	578893-001			
Analysis Requested	Field Id:	SS06			
Thulysis Requested	Depth:	6- In			
	Matrix:	SOIL			
	Sampled:	Mar-09-18 13:00			
BTEX by EPA 8021B	Extracted:	Mar-10-18 12:30	8		
	Analyzed:	Mar-11-18 09:24			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		<0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted:	Mar-12-18 09:00			
	Analyzed:	Mar-12-18 10:37			
	Units/RL:	mg/kg RL			
Chloride		<4.90 4.90			
TPH by SW8015 Mod	Extracted:	** ** ** **			
	Analyzed:	Mar-11-18 02:31			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0			
Diesel Range Organics (DRO)		63.6 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0			
Total TPH		63.6 15.0		 	
Chloride TPH by SW8015 Mod Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Oil Range Hydrocarbons (ORO)	Analyzed: Units/RL: Extracted: Analyzed:	Mar-12-18 10:37 mg/kg RL <4.90			

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

fession kenner

Jessica Kramer Project Assistant





LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

70-135

03.11.18 02.31

Sample Id: SS06 Lab Sample Id: 578893-001		Matrix: Date Colle	Soil cted: 03.09.18 13.00		Date Received:03. Sample Depth: 6 Iı		1
Analytical Method: Inorganic Anion	s by EPA 300				Prep Method: E30	00P	
Tech: OJS					% Moisture:		
Analyst: OJS		Date Prep:	03.12.18 09.00		Basis: We	t 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 SW801Tech:ARMAnalyst:ARMSeq Number:3043414	5 Mod	Date Pre	p: 03.10	.18 12.00	9/	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
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 1-Chlorooctane		Cas Number 111-85-3	% Recovery 95	Units %	Limits 70-135	Analysis Date 03.11.18 02.31	Flag	

97

%

84-15-1

o-Terphenyl





LT Environmental, Inc., Arvada, CO

Golden 8 Federal Battery #1

Sample Id:SS06Lab Sample Id:578893-001	Matrix: Soil Date Collected: 03.09.18 13.00	Date Received:03.10.18 12.21 Sample Depth: 6 In
Analytical Method:BTEX by EPA 8021BTech:ALJAnalyst:ALJSeq Number:3043357	Date Prep: 03.10.18 12.30	Prep Method: SW5030B % Moisture: Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	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		



LABORATORIES

Flagging Criteria



Page 95 of 102

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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

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





LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3043446			Matrix:	Solid				Date Pre	p: 03.1	2.18	
MB Sample Id:	7640586-1-BLK		LCS Sar	nple Id:	7640586-	1-BKS		LCSI	O Sample	Id: 764)586-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD I	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	261	104	261	104	90-110	0	20	mg/kg	03.12.18 09:31	

Analytical Method:	Inorganic Anions b	y EPA 300						Pr	ep Metho	d: E30)0P	
Seq Number:	3043446			Matrix:	Soil				Date Pre	p: 03.	12.18	
Parent Sample Id:	578266-004		MS Sar	nple Id:	578266-00)4 S		MSI	O Sample	Id: 578	266-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	<4.99	250	253	101	254	100	90-110	0	20	mg/kg	03.12.18 11:46	

Analytical Method:	Inorganic Anions by	y EPA 300						Pı	ep Meth	od: E30	0P	
Seq Number:	3043446			Matrix:	Soil				Date Pr	ep: 03.1	2.18	
Parent Sample Id:	578891-004		MS Sar	nple Id:	578891-00	04 S		MS	D Sample	e Id: 578	891-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	11.2	246	258	100	258	100	90-110	0	20	mg/kg	03.12.18 10:26	

Analytical Method:	TPH by S	W8015 M	od							Prep Method	l: TXI	005P	
Seq Number:	3043414				Matrix:	Solid				Date Prep	p: 03.1	0.18	
MB Sample Id:	7640553-1	-BLK		LCS Sar	nple Id:	7640553-	1-BKS		LC	SD Sample	Id: 764	0553-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	957	96	954	95	70-135	0	35	mg/kg	03.10.18 16:37	
Diesel Range Organics	(DRO)	<15.0	1000	1010	101	1020	102	70-135	1	35	mg/kg	03.10.18 16:37	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		95		1	03		108			70-135	%	03.10.18 16:37	
o-Terphenyl		97		1	03		106			70-135	%	03.10.18 16:37	

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

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LT Environmental, Inc.

Golden 8 Federal Battery #1

Analytical Method:	TPH by S	W8015 M	od						Р	rep Method	l: TX1	005P	
Seq Number:	3043414				Matrix:	Soil				Date Prep	p: 03.1	0.18	
Parent Sample Id:	578129-02	1		MS Sar	nple Id:	578129-02	21 S		MS	D Sample 1	ld: 578	129-021 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (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					AS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	05		109		70	0-135	%	03.10.18 17:56	
o-Terphenyl				1	04		104		70	0-135	%	03.10.18 17:56	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3043357 7640559-1-BLK	1B	LCS San	Matrix: nple Id:		1-BKS			Prep Methoo Date Prej SD Sample	p: 03.1	5030B 0.18 0559-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0790	78	0.0735	74	70-130	7	35	mg/kg	03.10.18 22:25	
Toluene	< 0.00202	0.101	0.0845	84	0.0783	78	70-130	8	35	mg/kg	03.10.18 22:25	
Ethylbenzene	< 0.00202	0.101	0.0942	93	0.0897	90	70-130	5	35	mg/kg	03.10.18 22:25	
m,p-Xylenes	< 0.00403	0.202	0.185	92	0.178	89	70-130	4	35	mg/kg	03.10.18 22:25	
o-Xylene	< 0.00202	0.101	0.0937	93	0.0910	91	70-130	3	35	mg/kg	03.10.18 22:25	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		8	38		90			70-130	%	03.10.18 22:25	
4-Bromofluorobenzene	98		1	14		111			70-130	%	03.10.18 22:25	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3043357 578592-004	1B		Matrix: nple Id:		04 S			Prep Metho Date Prej SD Sample	p: 03.1	5030B 0.18 592-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0663	66	0.0629	63	70-130	5	35	mg/kg	03.10.18 23:03	Х
Toluene	< 0.00200	0.100	0.0526	53	0.0525	53	70-130	0	35	mg/kg	03.10.18 23:03	Х
Ethylbenzene	< 0.00200	0.100	0.0272	27	0.0384	38	70-130	34	35	mg/kg	03.10.18 23:03	Х
m,p-Xylenes	< 0.00401	0.200	0.0530	27	0.0707	35	70-130	29	35	mg/kg	03.10.18 23:03	Х
o-Xylene	< 0.00200	0.100	0.0283	28	0.0372	37	70-130	27	35	mg/kg	03.10.18 23:03	Х
Surrogate				1S Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	36		92		7	0-130	%	03.10.18 23:03	
4-Bromofluorobenzene			1	03		106		7	0-130	%	03.10.18 23:03	

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

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by OCI	9: 9/1	6/20		8:58	8:49	9 A)	M	1			T	-	T	-	1	-	-	_	-		-									Pa	ge 98	s of	102	
ce: Notice: Signature of this document and reli os or expenses incurred by the Client If such to the enforced unless previously negotiated under	Relinquished by:	Relinquished by:	Religioushed by Sampler:	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY	a new Day Emengence	Next Day EMEDICENCY	Same Day TAT	10 Turnaround Time / Business dave)	9	8	7	6	σ	4	ω	2	1 2206		No. Field ID / Point of Collection	Samplers's Name: Aaron Williamson	Project Contact: Adrian Baker	Abaker@ltenv.com	3300 N. A Street Bldg 1 Suite 103 Midland TX 79705 Email:	Company Address:	LTE / Permian	Client / Reporting Information Company Name / Branch:		1	Dallas Texas (214-902-0300)		LABORATORIES	
inquishment of samples constitutes oses are due to circumstances beyond	0			Lab, if received by 5:00	STANDARD TAT	Contract TAT	7 Day TAT	5 Day TAT							1	/					t of Collection		ker	432-704-5178	Aidland TX 79705			ion			9	06(
a valid purchase c ond the control of y	Ino Time:	Date Time: 10	Date Time:	pm					_	-			-	/			1	++	-	1.0	Co		5			Pn	Pr				2 00			
ny to Xenco, its affiliates and subco	an m	To a received By:	BELOW EACH TIME SAMPLES CHANGE POSSE Received By:		TRRP Checklist	Level 3 (CLP Forms) UST / RG -411	Level III Std QC+ Forms TRRP Level IV	Level II Std QC	Data Deliverable Information									0	1300 S) 1 24 H	Date Time Matrix bottles ICI IABOH/Zn ICI IABOH/ZNADOH/ZNI IABOH/ZNADAOH/ZNADOH/ZNADOH/ZNADAOH/ZNADOH/ZNADOH/	Collection Number of preserved bottles	30-015-26931	ALC Energy - Kyle Littrell		NM	o recerat	Q Colal	Project Information	www.xerico.com	minialiu, Texas (432-704-5251)	San Antonio, Texas (210-509-3334)	Page 1 of 1	CHAIN OF CUSTO	
ar # Preserved where applicable	Date Time:			FED-EX					Notes:									XXX	< NC < B	aHSO4 EOH DNE Btex EF PH EF Chloride	PA M	etho	d 80 [.]	15	1	Da Hery HI	10 H	Analytical Information	Xenco Quote #		Phoenix, Arizona (480-355-0900)		TODY	
On log Cooler Temp. Thermo, Corr, Factor	Received By:	I VI hammen	Corrected Temp:	(6-23: +0.2°C) . 9	CF:(0-6: -0.2°C)	Temp: L·1 IR ID:R-8		01-30-015-26421											Field Comments		A = Air	WI = Wipe	SL = Sludge OW =Ocean/Sea Water	P = Product SW = Surface water	GW =Ground Water DW = Drinking Water	W = Water S = Soll/Sed/Solid		Alton Matrix Codes	Xenco John 67887.3		000)			

Released to Imaging: 9/16/2024 9:00:17 AM

Final 1.000

Received by OCD: 9/16/2024 8:58:49 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/10/2018 12:21:00 PM Temperature Measuring device used : R8 Work Order #: 578893 Sample Receipt Checklist Comments #1 *Temperature of cooler(s)? 1.9 #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinguished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 03/10/2018

N/A

N/A

Checklist reviewed by: Jession Whamer

Jessica Kramer

Date: 03/12/2018

Released to Imaging: 9/16/2024 9:00:17 AM

Bratcher, Mike, EMNRD

From:	Bratcher, Mike, EMNRD
Sent:	Monday, May 14, 2018 2:00 PM
То:	'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

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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

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

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

CONDITIONS

Operator:	OGRID:
BOPCO, L.P.	260737
6401 Holiday Hill Rd	Action Number:
Midland, TX 79707	383730
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/16/2024

Page 102 of 102

Action 383730