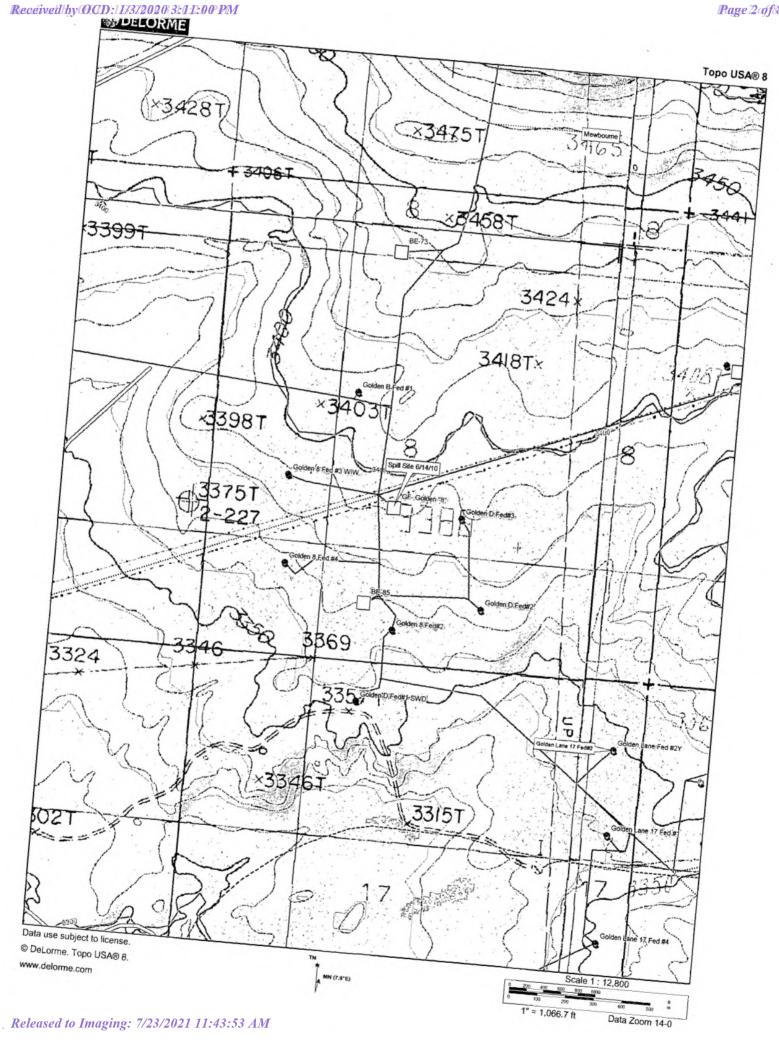
Ì

District II Energy Minerals 1301 W. Grand Avenue, Artesia, NM 88210 Oil Conse District III 000 Rio Brazos Road, Aztec, NM 87410 1220 Sour		Energy Mi	inerals		l Resourc	F		EIVE		Form (Revised October 10	0, 2003		
) South				2 Copies to appro rict Office in accor with Rule 116 or side o	1 Dack						
30-015			Rele	ease Notifi	catior	and Co	orrectiv	e A	ction		Carriel Box resultance 177, 50	nek men net a stata - se na da da da sa	
mw 10	35646	177		010020		OPERA				🛛 Initi	al Repo	ort 🗌 Final	Repo
Name of Co			04 Carlsh	<i>260737</i> ad, N.M. 88220		Contact Tor Telephone		6-873	80				
		n 8 Federal H				Facility Typ		0-07.					
Surface Ow	ner Federa	ıl		Mineral (Owner F	ederal		_		Lease N	No.		
				LOC	ATIO	OF RE	FASE						
Unit Letter	Section 8	Township 21S	Range 29E	Feet from the		South Line	Feet from	the	East/V	Vest Line	Count Eddy	ty	
			I	Latitude_N 32.4				.0081	47		I		
Гуре of Rele	ase: Crude	oil		NA	TURE	OF REL Volume of	Release: 9	0 Bbls	of	Volume	Recover	ed: 80 bbls of crud	e oil
Source of Pe	laasa: Drair	line connect	ion on the	back of a 500 bb	I topk	Crude oil	lour of Occ	urrana	-	Data and	Hourof	f Discovery	
					n. tank	Unknown		urrenc	c	6/14/10			
Was Immedi	ate Notice (Yes [No 🗌 Not R	equired	If YES, To Whom? Randy NMOCD on call operator							
By Whom?	ony Savoie				- 1	Date and Hour 6/14/10 9:24 a.m.							
Was a Water		ched?	Yes 🗵	No		If YES, Volume Impacting the Watercourse.							
oil in the tan Describe Arc around the ta	a Affected nks. The free	and Cleanup A ee standing flu	was cleane Action Tal	ed, inspected and	repaired d fluid af avily satu	by replacing fected an are trated soil is	the connect a of approxi in the proce	tions a imately ss of b	nd coati (2,000 eing rer	ng the tanl sq. ft insid noved and	e the ear placed of	rthen containment on plastic. The area	
The Site rem hereby cert regulations a public health should their or the enviro	ediation for fy that the i ll operators or the envir operations h nment. In a	the crude oil information g are required t ronment. The ave failed to	spill will iven above o report and adequately OCD accept	follow the NMOC is true and comp nd/or file certain ce of a C-141 rep v investigate and	CD guide plete to the release new bort by the remediate	lines for leak he best of my otifications a e NMOCD m e contaminat	s and spills knowledge nd perform arked as "F ion that pos	and u correctinal R e a thr	nderstar tive acti eport" d eat to gr	nd that pur ions for rel loes not rel round wate	suant to eases w ieve the r, surfac	NMOCD rules and hich may endanger operator of liabilit water, human he nee with any other	y
							OIL	CON	SERV	ATION	DIVI	SION	
Signature: Tony Dancie			Approved by District Supervisor: Signed By Mile Bassauce										
		emediation Sp	ecialist			Approval Da	.1.	111		Expiration			-
E-mail Addro	ess: TASavo	bic@BassPet.				Conditions o	1-1					ched	
Date: 6/22/10 Attach Addi		ets If Necess	sary	Phone:432-556-	-8730	Guideline	4/3	IT RE	MEDIA	TION-	RP	-521	



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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-521
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.491438_

Longitude -104.008147_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 06/14/2010	API# (if applicable) 30-015-26931

Unit Let	ter Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

Nature and Volume of Release

	tial(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 90	Volume Recovered (bbls) 80
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		•

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

Form C-141	State of New Mexico	Incident ID	
Page 2	Oil Conservation Division	District RP	2RP-0521
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? ⊠ Yes □ No	If YES, for what reason(s) does the responsible pa Volume of release is greater than 25 bbls.	rty consider this a major release?	
	notice given to the OCD? By whom? To whom? W tacted the on-call NMOCD operator (Randy) on 06/1	• · · ·	mail, etc)?
	Initial Respon	se	

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

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

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

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

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

 \boxtimes The source of the release has been stopped.

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

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0521
Facility ID	
Application ID	

Page 5 of 86

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

eceived by OCD: 173720	020 3:11:00 PM			Page 6 of 80
Form C-141 State of New Mexico			Incident ID	
Page 4	Oil Conservation Division	l	District RP	2RP-0521
			Facility ID	
			Application ID	
public health or the envirtuation of the envirtuation of the environment of t	s are required to report and/or file certain release no ironment. The acceptance of a C-141 report by the estigate and remediate contamination that pose a th nce of a C-141 report does not relieve the operator of 	OCD does not relieve the areat to groundwater, surfactor of responsibility for comp Title:SH&E S Date:12/31/2019	e operator of liability sh ace water, human health liance with any other fe upervisor	ould their operations have or the environment. In
OCD Only Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0521
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must b	e included in the plan.					
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation poin Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29. 						
Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)						
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:Kyle Littrell	Title:SH&E Supervisor					
Signature:	Date:12/31/2019					
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331					
OCD Only						
Received by:	Date:					
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved					
Signature:	Date:					

•.

<u>District I</u> 1625 N. French Dr., I <u>District II</u>	Hobbs, N	M 88240				New Mex and Natura	ico l Resources			Re	Form C-141 vised October 10, 2003	
1301 W. Grand Aven <u>District III</u> 1000 Rio Brazos Roa <u>District IV</u> 1220 S. St. Francis D	ad, Aztec,	NM 87410		1220	1 Conservation Division 20 South St. Francis Dr. Santa Fe, NM 87505		is Dr.	Sub D		Submit 2 C District (wi	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form	
30-015-26	931		Rele				orrective A	ction	1			
KmW/10	261.2	9393				OPERA'	FOR		🛛 Initia	al Report	Final Report	
Name of Compa	any BO	PCO, L.P.		260737		Contact Tor						
Address 522 W						the second se	No. 432-556-87	30				
Facility Name:	Golden	8 Federal E	Battery #			Facility Typ	be E&P]	
Surface Owner	Federal			Mineral (Owner F	ederal			Lease N	lo.]	
				LOCA	ATION	OF RE	LEASE					
Unit Letter Se K	8	Township 21S	Range 29E	Feet from the	North/	South Line	Feet from the	East/V	West Line	County Eddy		
			1	atitude_N 32.4	191352_	Longitu	de W 104.0082	223				
				NAT	URE	OF REL						
Type of Release:	Crude O	il.					Release: 310 Bb	ls	Volume F	Recovered: 2	.90	
Source of Release	e: 500 bh	l tank overfl	ow			Crude oil Date and H	Hour of Occurrent	ce	Date and	Hour of Dis	covery	
Source of Rental						2/16/11 ho	ur not known		2/16/11 1	0:00 a.m.		
Was Immediate N	Notice Gi		Yes [No 🗌 Not R	equired	If YES, To	Whom? NMOC	D emerg	gency repor	ting. Left m	essage with details.	
By Whom? Tony	Savoia				equireu	Date and I	lour 2/16/11 1:30	nm				
Was a Watercour							olume Impacting		ercourse.		=01	
			Yes 🛛	No			1 0		ГОГ	ECEN	VED	
reported to the NI of crude oil was r The Site remediat I hereby certify th regulations all op public health or th	of Problem put back ffected and ide the co MOCD of recovered tion for t nat the in recators a he enviro ations ha nt. In ad local law	m and Reme in service. nd Cleanup / ontainment m on 10/6/10. T d from inside the crude oil formation give re required to onment. The two failed to a dition, NMC s and/or regu	dial Action Action Tal neasuring the oil sat the conta spill will iven above o report a acceptana adequately OCD accep	n Taken.* A 500 ken.*An area insi approximately 40 urated soil outside inment. The area follow the NMOO e is true and comp nd/or file certain ce of a C-141 rep v investigate and	de the ea 00 sq. ft. ' e the com' inside th <u>CD guide</u> blete to th release no ort by the remediate report de	rthen tank co The area out tainment was the containme lines for leak ne best of my otifications a the NMOCD n the contaminat oes not reliev	ontainment measu side the containm s removed by Bas nt was covered w as and spills. knowledge and t nd perform corre- narked as "Final R ion that pose a the	aring app ent had in Env. ith soil the understa ctive act Report" of reat to g respons SERV	er-treater m proximately been affect using a hyd to absorb sr and that purs- tions for rel does not rel round wate ibility for c	alfunction. 14,100 sq. 1 ed by a prev ro-vac. App nall areas of suant to NM eases which ieve the ope r, surface wa ompliance v	ft. and an area of ious flow line spill roximately 290 bbls free product. OCD rules and may endanger rator of liability ater, human health with any other	
Title: Waste Mgn			ecialist			Approval Da	te: 3/7/11		Expiration	Date:		
E-mail Address:	TASavoi	ie@BassPet.	com			Conditions o	f Approval:				.	
				100 555 0			diation per OC	D Rula	P. P.	Attached		
Date: 3/3/11 Attach Addition	al Sheet	ts If Necess		hone:432-556-87		Guideline	SUBMIT REN NOT LATER 1 4/7/11	AEDIA	TION	<u> </u>	2 R.P. 633	

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page90686

Incident ID	
District RP	2RP-0633
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.491352_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 02/16/2011	API# (if applicable) 30-015-26931

Unit Let	ter Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM_____

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil	Volume Released (bbls) 310	Volume Recovered (bbls) 290			
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Release					

Cause of Release

A 500 bbl oil tank overflowed due to a heater-treater malfunction. The heater treater was repaired and put back into service. An area inside the earthen tank containment measuring approximately 14,100 sq. ft. and an area of pasture land outside the containment measuring approximately 400 sq. ft. was affected. The area outside the containment had been affected by a previous flow line spill reported to the NMOCD on 10/06/2010. The oil saturated soil outside the containment was removed by Basin Env. Using a hydro-vac. Approximately 290 bbls of crude oil was recovered from inside the containment.

Re

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Form C-141	State of New Mexico	Incident ID				
Page 2	Oil Conservation Division	Incident ID District RP	2RP-0633			
1 460 2			2RP-0033			
		Facility ID Application ID				
		Application ID				
Was this a major	If YES, for what reason(s) does the responsible party	y consider this a major release	?			
release as defined by	Release volume was greater than 25 bbls.	, ,				
19.15.29.7(A) NMAC?						
🛛 Yes 🗌 No						
If VES, was immediate n	otice given to the OCD? By whom? To whom? Whe	on and by what magne (nhono	amail ata)?			
	ted the NMOCD on 2/16/2011 via telephone (NMOCI					
, , , , , , , , , , , , , , , , , , ,	r					
	Initial Response	2				
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that woi	ıld result in injury			
\square The source of the rele	ease has been stopped.					
	is been secured to protect human health and the enviro	nment				
	ave been contained via the use of berms or dikes, abso		ent devices			
		•	ant devices.			
	ecoverable materials have been removed and managed	appropriately.				
If all the actions described above have <u>not</u> been undertaken, explain why:						
N/A						
Dog 10, 15, 20, 9 D (4) NM	IAC the recommendation many commence remodiation	immediately often discovery	of a value of the second strice			
	IAC the responsible party may commence remediation a narrative of actions to date. If remedial efforts hav					
	that area (see 19.15.29.11(A)(5)(a) NMAC), please attac					
I hereby certify that the info	rmation given above is true and complete to the best of my l	knowledge and understand that p	rsuant to OCD rules and			
	required to report and/or file certain release notifications an					
	ment. The acceptance of a C-141 report by the OCD does no					
	ate and remediate contamination that pose a threat to ground f a C-141 report does not relieve the operator of responsibili					
and/or regulations.	L	, <u>,</u> , , , , , , , , , , , , , , , , ,	, ,			

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-0633
Facility ID	
Application ID	

Page 11 of 86

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

eceived/by@CD:11/3/20	20 3112:00 PM			Page 12 of 80
Form C-141 State of New Mexic			Incident ID	
Page 4	Oil Conservation Divisio	n	District RP	2RP-0633
			Facility ID	
public health or the envir failed to adequately inve addition, OCD acceptance and/or regulations. Printed Name: Signature:	are required to report and/or file certain release a ronment. The acceptance of a C-141 report by th stigate and remediate contamination that pose a ce of a C-141 report does not relieve the operator Kyle Littrell trell@xtoenergy.com	the OCD does not relieve the chreat to groundwater, surfate of responsibility for comp Title:SH&E State Date:12/31/2019	e operator of liability sh ace water, human health liance with any other fe upervisor	ould their operations have or the environment. In
OCD Only Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	nKMW1106629393
District RP	2RP-0633
Facility ID	
Application ID	

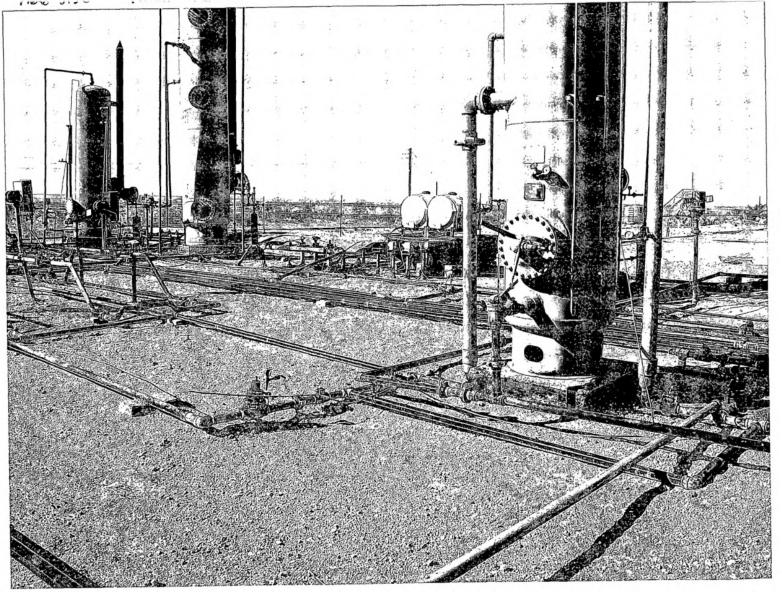
Remediation Plan

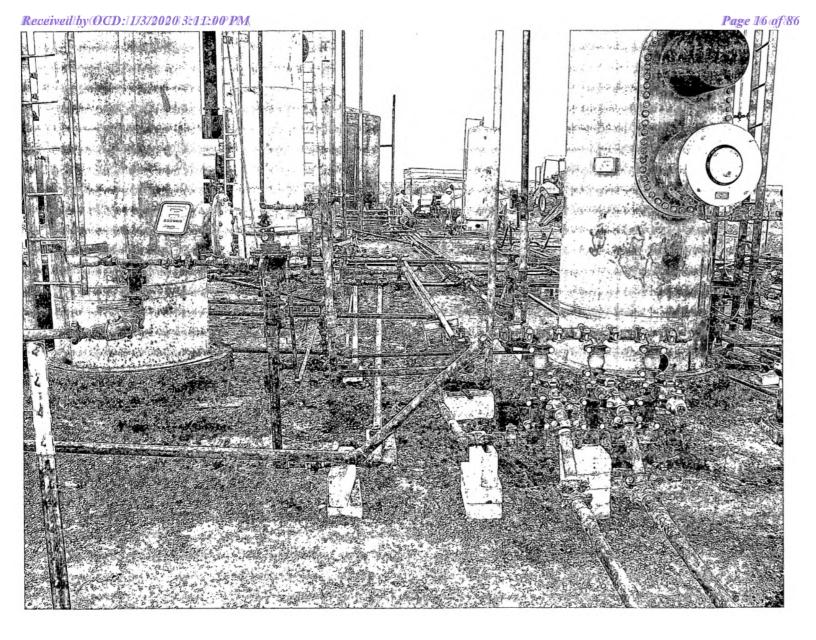
Remediation Plan Checklist: Each of the following items must	be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.				
	production equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name:Kyle Littrell	Title:SH&E Supervisor				
Signature:	Date:12/31/2019				
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331				
OCD Only					
Received by:	_ Date:				
Approved Approved with Attached Conditions o	f Approval Denied X Deferral Approved				
Signature: Bradford Billings	Date: 07/23/2021				

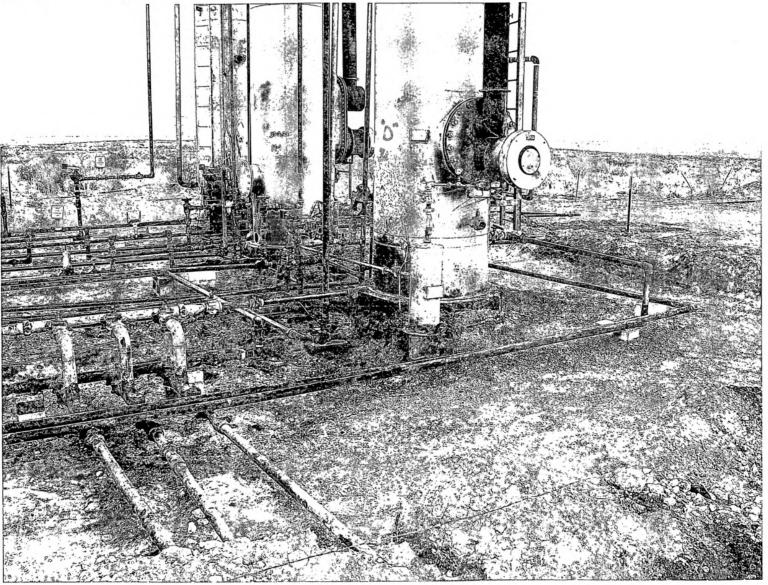
625 N. French istrict II	Dr., Hobbs, 1	NM 88240 F	RECE	Energy Mine	e of N erals a	ew Mexi nd Natura	ICO I Resources		Form C-141 Revised August 8, 2011
11 S. First St., istrict III	Artesia, NM	88210	NOV 2	6 2013 Oil Co	nceru	ation Div	vision		to appropriate District Office in
000 Rio Brazo	s Road, Azteo	c, NM 87410		ADTESTROS	South	St. Franc	is Dr.	a	ccordance with 19.15.29 NMAC.
220 S. St. Fran	ncis Dr., Santa	a Fe, NM 8750	MOCL	ARTES 220 S	ta Fe,	NM 875	05		
	(ease Notifica				ction	
(M(D	1333	30536	60			OPERAT	TOR	🛛 Initi	al Report 🔲 Final Repor
Name of Co	ompany: B	OPCO, L.P.	260	737	C	Contact: To	ny Savoie		
				bad, N.M. 88220			No. 575-887-73		
P&A 2011	me: Golder	n 8 Federal I	Battery #	I, the Well #1 was	5 F	actify Typ	e: Exploration a	and Production	
Surface Ow	vner: Feder	al		Mineral Ow	vner: F	ederal		API No	0. 30-015-26931
				LOCAT	TION	OF REI	LEASE		
Unit Letter K	Section 8	Township 21S	Range 29E	Feet from the		outh Line	Feet from the 2180	East/West Line West	County Eddy
				Latitude N 32.4	91141	Longitude	W 104.00777	5	
						OF RELI		· · · · · · · · · · · · · · · · · · ·	
Type of Rela	case: Crude	oil and produ	ced water			Volume of	Release: 6 Bbls		Recovered: 3 Bbls oil and 2 Bbls
Source of R	elesse Hest	er-treater fire	tube				nd 15 Bbls water		Hour of Discovery: Date
Source of Re	rease, mean	er-treater me	tutie				/13 Time unknow		Time approximately 9:00 a.m.
Was Immed	iate Notice (Yes [No 🛛 Not Req	uired	If YES, To	Whom?		
By Whom?						Date and H	lour		
Was a Water	rcourse Read						Jume Impacting	the Watercourse.	
			Yes 🛛	No					
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	•					
			_						
	e on the heat	em and Reme ter-treater dev			was swi	itched out of	the vessel, a vac	uum truck was dis	patched to the site to recover the
nee product									
Describe Ar	ea Affected	and Cleanup	Action Ta	ken.*					
The spill imp	pacted appro	oximately 900	sq. ft. of	the tank battery earth					ad been cleaned up as far as
				ew closure report wi					port dated 2/16/11. The area will
I hereby cert	tify that the i	information e	iven abov	e is true and comple	te to the	e best of my	knowledge and i	inderstand that pur	suant to NMOCD rules and
	all operators	are required t	o report a	nd/or file certain rele	ease no	tifications an	nd perform correct	ctive actions for rel	leases which may endanger
regulations a									lieve the operator of liability er, surface water, human health
regulations a public health		addition, NMC	DCD accept						compliance with any other
regulations a public health should their or the enviro		ws and/or reg	ulations.		-		OIL CON	SERVATION	DIVISION
regulations a public health should their							OIL CON	SERVATION	DIVISION
regulations a public health should their or the enviro federal, state	e, or local lav	_	0						
regulations a public health should their or the enviro federal, state Signature	i Oru	Dau	ű			pproved by	Environmental S	pecialist:	all i
regulations a public health should their or the enviro federal, state	i Oru	Dau	ű		-		Environmental S	Signed By	Alike Berner
regulations a public health should their or the enviro federal, state Signature: Printed Nam	i Oru	Dau		cialist	-		Environmental S	Signed By	
regulations a public health should their or the enviror federal, state Signature! Printed Nam Title: Waste	i Oru i Oru ne: Tony Sav Managemer	Dau	iation Spe	cialist	A	opproval Dat	QV 2 6 201	3 Expiration	

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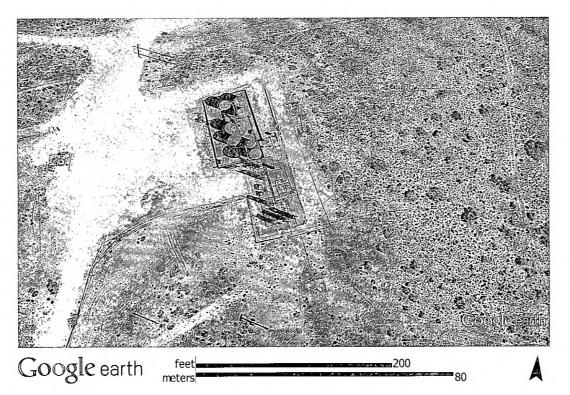
•.







Page 17 of 86



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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-2082
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.491141_

Longitude -104.007775_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 11/25/2013	API# (if applicable) 30-015-26931

Unit Let	ter Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)							
Crude Oil	Volume Released (bbls) 6	Volume Recovered (bbls) 3					
Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 2					
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)					
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)					
Cause of Release							

Cause of Release

The fire tube on the heater-treater developed a leak, the production was switched out of the vessel, a vacuum truck was dispatched to the site to recover the free product. The spill impacted approximately 900 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference spill report date d2/6/2011. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous spill.

Received by OCD: 173/2020 3: 1 1:00 PM

Form C-141 Page 2	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID	2RP-2082
Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ⊠ No	If YES, for what reason(s) does the responsible pa N/A	arty consider this a major release?	?
If YES, was immediate N/A	notice given to the OCD? By whom? To whom? W	hen and by what means (phone, o	email, etc)?
	Initial Respon	se	

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

 \square The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:
	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2082
Facility ID	
Application ID	

Page 21 of 86

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

eceived/by@CD:11/3/20	20 3:11:00 PM			Page 22 of 80
Form C-141	State of New Mexico	e of New Mexico		
Page 4	Oil Conservation Divisio	on	Incident ID District RP	2RP-2082
			Facility ID	
			Application ID	
public health or the envir failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email: Kyle_Litt	are required to report and/or file certain release ronment. The acceptance of a C-141 report by the stigate and remediate contamination that pose a se of a C-141 report does not relieve the operato _Kyle Littrell	he OCD does not relieve the threat to groundwater, surfa r of responsibility for comp Title:SH&E S Date:12/31/2019	e operator of liability sh ace water, human health liance with any other fe upervisor	ould their operations have or the environment. In
OCD Only Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2082
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan.					
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 					
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.				
\square Contamination must be in areas immediately under or around pr deconstruction.	oduction equipment where remediation could cause a major facility				
Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.				
	and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of				
Printed Name:Kyle Littrell	Title:SH&E Supervisor				
Signature:	Date:12/31/2019				
email:Kyle_Littrell@xtoenergy.com Telephone:432-221-7331					
OCD Only					
Received by:	Date:				
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved				
Signature:	Date:				

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

Name of Company: BOPCO, L.P.

P&A 2011

Surface Owner: Federal

State of New Mexico Energy Minerals and Natural Resources

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

ARTESIA DISTRICT

 \boxtimes

AUG 1 3 2014

Page 24 of 86

Final Report

Form C-141 Revised August 8, 2011

Sub**RECEPYED**ppropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR 340737 Contact: Tony Savoie Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No. 575-887-7329 Facility Name: Golden 8 Federal Battery #1, the Well #1 was Facility Type: Exploration and Production

API No. 30-015-26931

Initial Report

LOCATION OF RELEASE

Mineral Owner: Federal

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

Latitude N 32.491141 Longitude W 104.007775

NATURE	OF RELEASE		
Type of Release: Crude oil and produced water	Volume of Release: 3 Bbls of crude oil and 38 Bbls water	Volume Recovered: 1 Bbl. oil and 17 Bbls water.	
Source of Release: Victaulic fitting on the production header.	Date and Hour of Occurrence: Date 8/12/14 Time unknown	Date and Hour of Discovery: Date 8/12/14 Time approximately 10:30 a.m.	
Was Immediate Notice Given?	If YES, To Whom? NMOCD Emergency #104		
By Whom? Tony Savoie	Date and Hour: 8/12/14 at 12:10	p.m.	
Was a Watercourse Reached?	If YES, Volume Impacting the W		
If a Watercourse was Impacted, Describe Fully.*		ARTESIA DISTRICT	
Describe Cause of Problem and Remedial Action Taken.*		AUG 1 3 2014	
The gasket was replaced and the valve was returned to normal. Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 1500 sq. ft. of the tank battery earthen c practicable in the area around the vessels and lines during a remediation at impacted by spill reference 2RP-2082. The area will be re-addressed, clean from the previous two spills.	t the facility in August of 2011, refe	rence 2RP-633. And the same are as	
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations.	otifications and perform corrective a NMOCD marked as "Final Report e contamination that pose a threat to bes not relieve the operator of respo	actions for releases which may endanger " does not relieve the operator of liability o ground water, surface water, human health	
Signature: 1 64 Danno		1.1	
Printed Name: Tony Savoie Approved by Environmental Specific Astantales			
Title: Waste Management and Remediation Specialist	Approval Date: \$114114	Expiration Date: NA	
E-mail Address: tasavoie@basspet.com Date:8/13/14 Phone: 432-556-8730	Conditions of Approval: Remediation per OCD F Guidelines. SUBMIT REME		

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	2RP-2439
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.491141_

Longitude -104.007775_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden 8 Federal Battery #1	Site Type Exploration and Production
Date Release Discovered 08/12/2014	API# (<i>if applicable</i>) 30-015-26931

Unit Let	ter Section	Township	Range	County
K	8	21S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: BLM______

Nature and Volume of Release

Mater	ial(s) Released (Select all that apply and attach calculations or specific	c justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls) 27	Volume Recovered (bbls) 17
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Cause of Release

A Victaulic gasket failed on the production header due to a normally open valve was shut causing pressure to build up and blow out the gasket. The gasket was replaced and the valve was returned to normal. The spill impacted approximately 1500 sq. ft. of the tank battery earthen containment area. The spill impacted an area that had been cleaned up as far as practical in the area around the vessels and lines during a remediation at the facility in August of 2011, reference 2RP-0633 and the same areas impacted by spill reference 2RP-2082. The area will be re-addressed, cleaned up as required, and a new closure report will be submitted including data from the previous two spills.

Re

Form C-141 State of New Mexico			Page 26
Page 2	Oil Conservation Division	Incident ID	
Page 2	On Conservation Division	District RP	2RP-2439
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? ⊠ Yes □ No	If YES, for what reason(s) does the responsible part Volume of release is greater than 25 bbls.	y consider this a major release	?
	notice given to the OCD? By whom? To whom? When tacted the NMOCD emergency operator #104 on 08/12		email, etc)?
The responsib	Initial Response le party must undertake the following actions immediately unless they		uld result in injury
\square The source of the re	elease has been stopped.		
The impacted area	has been secured to protect human health and the enviro	onment.	
Released materials	have been contained via the use of berms or dikes, abso	orbent pads, or other containme	ent devices.
\square All free liquids and	recoverable materials have been removed and managed	d appropriately.	
-	bed above have <u>not</u> been undertaken, explain why:		
has begun, please attac	MAC the responsible party may commence remediation h a narrative of actions to date. If remedial efforts have ent area (see 19.15.29.11(A)(5)(a) NMAC), please attac	ve been successfully complete	d or if the release occurred

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

Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:12/31/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331
OCD Only	
Received by:	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2439
Facility ID	
Application ID	

Page 27 of 86

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- $\overline{\boxtimes}$ Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

eceived/by@CD:11/3/20	20 3:11:200 PM			Page 28 of 80	
Form C-141	State of New Mexico		Incident ID		
Page 4	Oil Conservation Division	on	District RP	2RP-2439	
			Facility ID		
			Application ID		
public health or the envir failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email: Kyle_Litt	ronment. The acceptance of a C-141 report by t stigate and remediate contamination that pose a	he OCD does not relieve the threat to groundwater, surfa r of responsibility for comp Title:SH&E S Date:12/31/2019	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws Title:SH&E Supervisor Date:12/31/2019 Telephone:432-221-7331		
OCD Only Received by:		Date:			

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2439
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Kyle Littrell	Title:SH&E Supervisor			
Signature:	Date:12/31/2019			
email:Kyle_Littrell@xtoenergy.com	Telephone:432-221-7331			
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature:	Date:			

LT Environmental, Inc.

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432,704,5178



January 2, 2020

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

RE: Deferral Request – Addendum to Original Closure Request Golden 8 Federal Battery #1 Remediation Permit Numbers 2RP-521, 2RP-633, 2RP-2082, and 2RP-2439 Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request as an addendum to a previously submitted Closure Request detailing site assessment and soil sampling activities at the Golden 8 Federal Battery #1 (Site) in Unit K, Section 8, Township 21 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The original Closure Request addressed seven historical releases that occurred at the same well pad location. The New Mexico Oil Conservation Division (NMOCD) approved closure of three of the historical releases, but requested additional information for deferral consideration of four releases that occurred around production equipment. The purpose of the site assessment and soil sampling activities documented in this report was to delineate previously identified impacted soil associated with those four historical releases. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, XTO is submitting this Deferral Request, requesting deferral of final remediation for these release events.

RELEASE BACKGROUND

2RP-521

On June 14, 2010 a drain line connection on a tank failed due to internal corrosion releasing 90 barrels (bbls) of crude oil into the lined earthen tank battery containment. The remaining oil in the tank was removed, the tank was cleaned, inspected and repaired. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 80 bbls of crude oil were recovered. The heavily saturated soils were removed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on June 22, 2010, and the NMOCD subsequently issued RP Number 2RP-521.





2RP-633

On February 12, 2011 a heater-treater malfunction caused an oil product tank to overflow releasing 310 bbls of crude oil to the lined earthen containment and pasture outside the containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 290 bbls of crude oil were recovered.

2RP-2082

On November 25, 2013 a fire tube on the heater-treater developed a leak resulting in a release of 6 bbls of crude oil and 15 bbls of produced water to the lined earthen containment. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 3 bbls of crude oil and 2 bbls of produced water were recovered.

2RP-2439

On August 12, 2014 a Victaulic gasket failed on the production header due to a blow out on the gasket resulting in a release of 3 bbls of crude oil and 38 bbls of produced water. A vacuum truck was dispatched to the Site to recover freestanding fluids; approximately 1 bbl of crude oil and 17 bbls of water were recovered. The gasket was replaced.

XTO submitted a Closure Request dated May 25, 2018, for this site addressing seven separate historical releases. The NMOCD approved closure of 2RP-3612, 2RP-4017, and 2RP-4601 via email dated June 6, 2018. In consideration of the other historical releases, which were inside the tank battery, NMOCD responded with a recommendation to attempt a delineation, remediate as much as possible, and defer anything left until final plugging and abandonment.

SITE CLOSURE STANDARDS

The original site work and subsequent sampling occurred prior to promulgation of new spill response requirements listed in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). As described and approved in the original Closure Request, closure standards were established as follows: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 5,000 mg/kg total petroleum hydrocarbons (TPH). Based on standard practice in this region at the time of sampling and previous reporting, LTE applied a site-specific chloride action level of 600 mg/kg.

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On June 7, 2018 LTE evaluated the release extent based on information provided on the Form C-141 and visual observations. LTE personnel collected six preliminary soil samples (SS06-SS11) within the lined earthen containment. Soil from the soil sample location was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID)





and Hach[®] chloride QuanTab[®] test strips, respectively. The preliminary soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. Photographs are included in Attachment 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Midland, Texas, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Based on laboratory analytical results for chloride in preliminary soil sample SS09, additional vertical delineation was conducted at that location.

On June 13, 2018 LTE personnel advanced a borehole via hand-auger at one location within the lined tank battery containment on the northeastern side of the caliche well pad. The borehole was advanced at SS09 to delineate the impacted soils. Three soil samples were collected at depths ranging from 7 feet and 12.5 feet bgs (BH01A through BH01C). Soil from the soil sample location was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for each sample were documented on a lithologic/soil sampling log and are included as Attachment 1. The borehole was backfilled with the soil removed and LTE personnel repaired the liner. The borehole and vertical delineation soil sample location is depicted on Figure 2.

ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS09 and BH01A, collected at depths ranging from 0.5 feet to 7 feet bgs, indicated that chloride concentrations exceeded 600 mg/kg. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the documented closure standards in all other soil samples. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. The complete laboratory analytical reports are included as Attachment 3.

DEFERRAL REQUEST

LTE personnel advanced one borehole in the location of the SS09 in the lined earthen containment. Delineation soil samples BH01A through BH01C were collected from within the lined tank battery containment from depths ranging from 0.5 foot to 12.5 feet bgs to assess for the presence or absence of soil impacts as a result of the four releases in the lined earthen containment. Laboratory analytical results indicated that chloride concentrations exceeded the the previously documented closure standards in soil samples SS09 and BH01A, collected at





depths ranging from 0.5 feet to 7 feet bgs. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the previously documented closure standards in soil samples SS06 through SS08, SS10, SS11 and BH01B through BH01C at depths of approximately 0.5 feet and 12.5 feet bgs, respectively.

Residual impacted soil in the area of delineation borehole BH01 was left in place under the lined containment in which active operating equipment exists. Vertical delineation was achieved at approximately 10 feet bgs. The lateral extent of impacted soil remaining in place is defined by the other samples documented in this report and the numerous samples collected outside the containment and documented in the original Closure Request. An estimated 555 cubic yards of impacted soil remains in place surrounding borehole BH01 and beneath the lined tank battery containment, assuming a maximum 10-foot depth based on soil sample BH01B collected at a depth of 10 feet bgs.

Because depth to groundwater is estimated to be greater than 200 feet bgs, there no nearby surface features, and the impacted soil exists above and beneath a liner, LTE and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The lined containment was repaired by XTO and will restrict potential vertical migration of residual impacts. XTO requests deferral of final remediation for this release event until final reclamation of the well pad or major construction, whichever comes first. An updated Form C-141 is attached.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Monissey

Tacoma Morrissey Staff Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Senior Geologist

cc: Kyle Littrell, XTO
 United States Bureau of Land Management – New Mexico
 Robert Hamlet, NMOCD
 Victoria Venegas, NMOCD





Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Table 1Soil Analytical Results

Attachment 1 Lithologic/Soil Sampling Logs

Attachment 2 Photographic Log

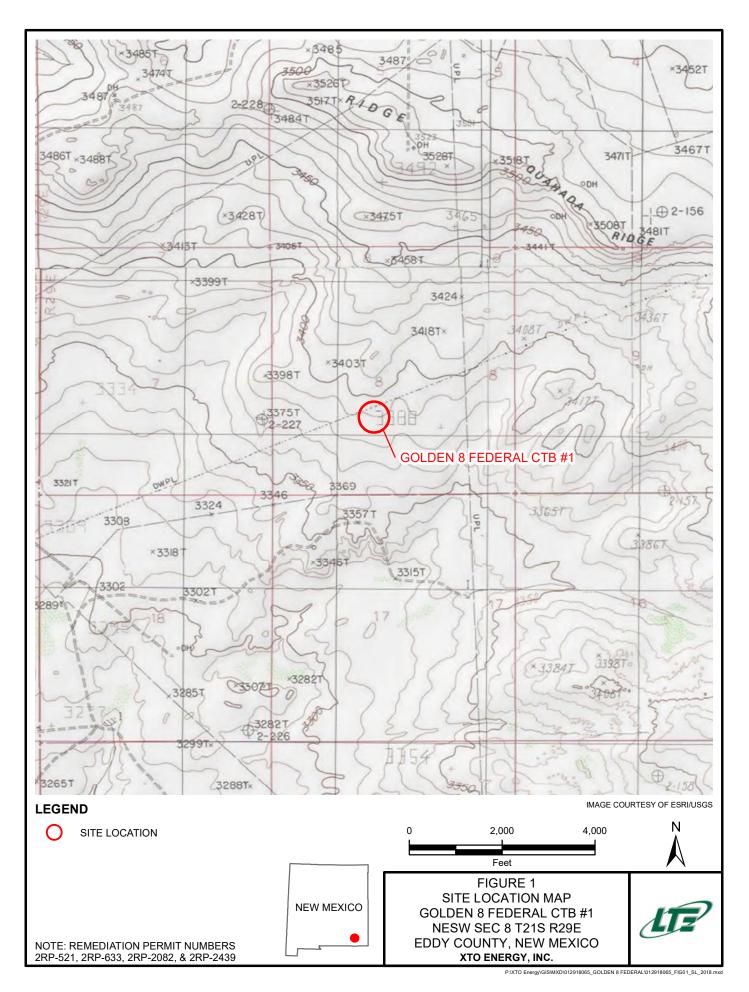
Attachment 3 Laboratory Analytical Reports



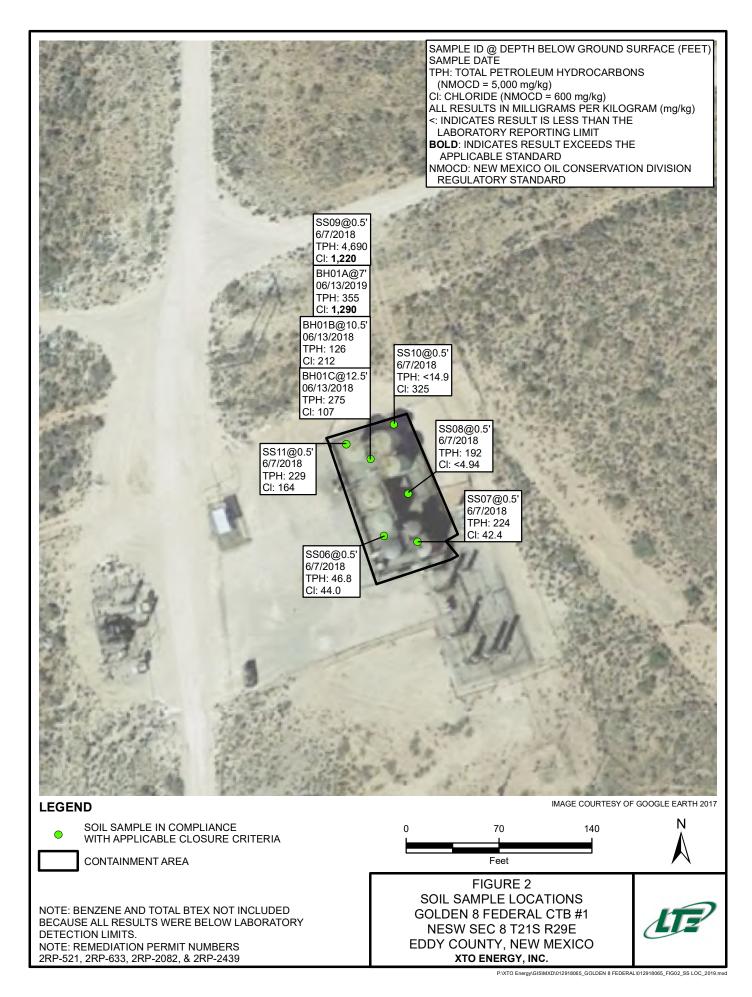
Page 35 of 86

FIGURES

LT?



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Page 38 of 86

TABLE



. Released to Imaging: 7/23/2021 11:43:53 AM

TABLE 1 SOIL ANALYTICAL RESULTS

GOLDEN 8 FEDERAL CENTRAL TANK BATTERY #1 REMEDIATION PERMIT NUMBER 2RP-521, 2RP-633, 2RP-2082, AND 2RP-2439 EDDY COUNTY, NEW MEXICO XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table	1 Closure Crit	eria	10	NE	NE	NE	50	NE	NE	NE	NE	5,000	600
SS06 @ 6" bgs	0.5	06/07/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	46.8	<15.0	46.8	46.8	44.0
SS07	0.5	06/07/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	203	21.3	203	224	42.4
SS08	0.5	06/07/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	172	20.3	172	192	<4.94
SS09	0.5	06/07/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	659	3,900	129	4,550	4,690	1,220
SS10	0.5	06/07/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	325
SS11	0.5	06/07/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	210	19.2	210	229	164
BH01 A	7	06/13/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	331	24.0	331	355	1,290
BH01 B	10.5	06/13/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	126	<15.0	126	126	212
BH01 C	12.5	06/13/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	258	17.1	258	275	107

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics NMAC - New Mexico Administrative Code NMOCD - New Mexico Oil Conservation Division NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

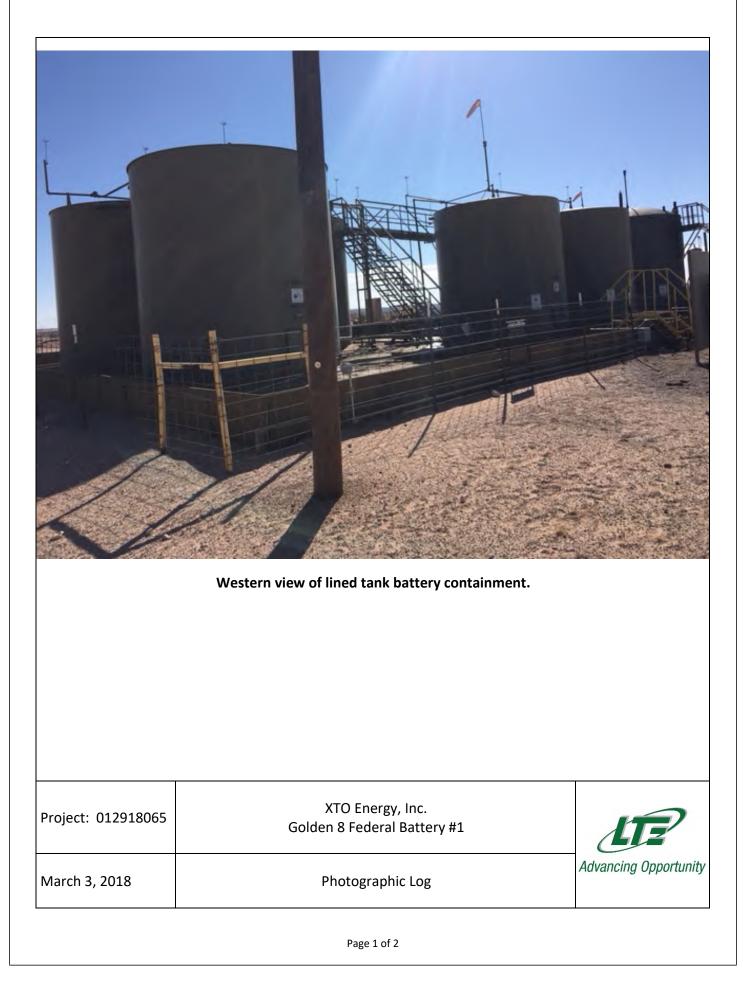
Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

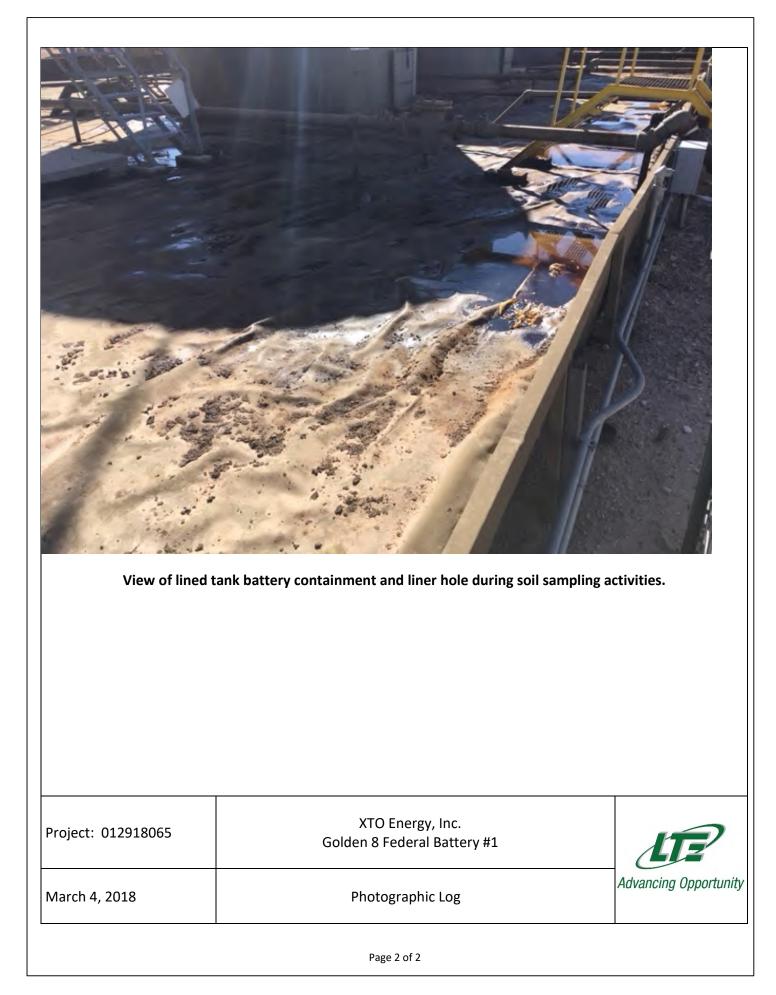




LT Environme LT Environme 25	LT Environmental, Inc. 508 W Carlsbad, Compliance - LITHOLOGIC / SO				rironmental, Inc. st Stevens Street New Mexico 88220 Engineering · Remediation				Identifier: BH01 Project Name: Golden 8 Federal #1 Logged By: L. Laumba	uch	Date: RP Number: 2RP-521, 2RP- Method:	6/13/2019 -633, 2RP-2082, and 2RP-2439 Hand Auger
Lat/Long:					Field Scree				Hole Diameter:	3"	Total Depth:	12.5'
32.491438		8147										
Comments	:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.) 0	Sample Depth	Soil/Rock Type			Lithology	/Remarks	
	985	352			1 2 3 4 5 6	4'	S		Caliche/sand lig	nt brown- h	nydrocarbon o	odor detected
[1160	215		BH01	7	7'	S			sand/ clay	v brown	
		213		A	8	,	C			Suna ena	, 0.0 ***	
	462	95.4			9	9.5'	S	s	and/clay brown- no	o staining c	or hydrocarbo	on odor detected
	156.4	492		BH01B	10	10.5'		S	and/clay brown- no	o staining c	or hydrocarbo	on odor detected
	50.1	630			11	11.5'			caliche/sand- no s	staining or i	hydrocarbon	odor detected
	65.1	115		BH01C	12	12.5'		caliche	/sand- no staining	or hydroca	urbon odor de	etected; auguer refusal









Analytical Report 588640

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal #1

11-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

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

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



11-JUN-18

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

Reference: XENCO Report No(s): **588640** Golden 8 Federal #1 Project Address: NM 2RP-2439

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 588640. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 588640 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

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





Sample Cross Reference 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS06 @ 6"bgs.	S	06-07-18 10:00	6 In	588640-001
SS07	S	06-07-18 10:15	6 In	588640-002
SS08	S	06-07-18 10:35	6 In	588640-003
SS09	S	06-07-18 10:50	6 In	588640-004
SS10	S	06-07-18 11:00	6 In	588640-005
SS11	S	06-07-18 10:20	6 In	588640-006

۰,



CASE NARRATIVE

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

Project ID: Work Order Number(s): 588640 Report Date:11-JUN-18Date Received:06/08/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3052932 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3052970 BTEX by EPA 8021B

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



Project Id:Contact:Adrian BakerProject Location:NM 2RP-2439

Certificate of Analysis Summary 588640

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



Date Received in Lab:Fri Jun-08-18 10:09 amReport Date:11-JUN-18Project Manager:Jessica Kramer

	Lab Id:	588640-	001	588640-0	002	588640-0	003	588640-	004	588640-	005	588640-	006
Analysis Requested	Field Id:	SS06@6	"bgs.	SS07		SS08		SS09		SS10		SS11	
Analysis Kequesieu	Depth:	6- In											
	Matrix:	SOIL	,	SOIL	,	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jun-07-18	10:00	Jun-07-18	10:15	Jun-07-18	10:35	Jun-07-18	10:50	Jun-07-18	11:00	Jun-07-18	10:20
BTEX by EPA 8021B	Extracted:	Jun-09-18	07:55	Jun-09-18	07:55	Jun-09-18	07:55	Jun-10-18	08:30	Jun-09-18	07:55	Jun-09-18	07:55
	Analyzed:	Jun-10-18	00:43	Jun-10-18	01:01	Jun-10-18	01:19	Jun-10-18	21:34	Jun-10-18	01:55	Jun-10-18	02:13
	Units/RL:	mg/kg	RL										
Benzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.00398	0.00398	< 0.00397	0.00397	< 0.00402	0.00402	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00398	0.00398
o-Xylene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Total Xylenes		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199
Inorganic Anions by EPA 300	Extracted:	Jun-08-18	15:15										
	Analyzed:	Jun-09-18	01:09	Jun-09-18	01:15	Jun-09-18	01:20	Jun-09-18	01:26	Jun-09-18	01:31	Jun-09-18	01:47
	Units/RL:	mg/kg	RL										
Chloride		44.0	4.93	42.4	4.99	<4.94	4.94	1220	24.7	325	4.96	164	4.98
TPH by SW8015 Mod	Extracted:	Jun-08-18	14:00										
	Analyzed:	Jun-09-18	01:03	Jun-09-18	01:23	Jun-09-18	01:44	Jun-09-18	02:04	Jun-09-18	02:25	Jun-09-18	02:45
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<14.9	14.9	659	74.8	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		46.8	15.0	203	15.0	172	14.9	3900	74.8	<14.9	14.9	210	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0	21.3	15.0	20.3	14.9	129	74.8	<14.9	14.9	19.2	15.0
Total TPH		46.8	15.0	224	15.0	192	14.9	4690	74.8	<14.9	14.9	229	15.0

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

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

fession bramer

Jessica Kramer Project Assistant

Page 5 of 23



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS06 @ 6"bgs. Lab Sample Id: 588640-001		Matrix: Date Colle	Soil cted: 06.07.18 10.00	Date Received:06.08.18 10.09 Sample Depth: 6 In				
Analytical Method: Inorganic A Tech: OJS Analyst: SCM Seq Number: 3052933	nions by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: E30 % Moisture: Basis: We	00P t Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	44.0	4.93	mg/kg	06.09.18 01.09		1	
Analytical Method: TPH by SW	/8015 Mod				Prep Method: TX	1005P		

Analytical Method: TPH by 5 w 80	I S MOU				r	rep Method: 17	X1003P	
Tech: ARM					9	% Moisture:		
Analyst: ARM		Date Pre	p: 06.08.1	18 14.00	E	Basis: W	et Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 01.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	46.8	15.0		mg/kg	06.09.18 01.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	06.09.18 01.03	U	1
Total TPH	PHC635	46.8	15.0		mg/kg	06.09.18 01.03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	06.09.18 01.03		
o-Terphenyl		84-15-1	96	%	70-135	06.09.18 01.03		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS06 @ 6"bgs. Lab Sample Id: 588640-001		Matrix: Date Col	Soil lected: 06.07.18 10.00		Date Received:06 Sample Depth: 6 I		9
Analytical Method: BTEX by EPA	8021B				Prep Method: SV	W5030B	
Tech: ALJ					% Moisture:		
Analyst: ALJ		Date Pre	p: 06.09.18 07.55		Basis: W	et Weight	
Seq Number: 3052932							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.10.18 00.43	U	1
T - 1	100 00 2	-0.00100	0.00100		06 10 10 00 42	TT	1

	1,4-Difluorobenzene		540-36-3	99	%	70-130	06.10.18 00.43			
	4-Bromofluorobenzene		460-00-4	104	%	70-130	06.10.18 00.43			
	Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
,	Total BTEX		< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	
,	Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	
(o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	
1	m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.10.18 00.43	U	1	
]	Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	
,	Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	
1	Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.10.18 00.43	U	1	

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample Id	SS07 1: 588640-002		Matrix: Date Colle	Soil ected: 06.07.18 10.15	Date Received:06.08.18 10.09 Sample Depth: 6 In				
Analytical Me Tech: Analyst: Seq Number:	ethod: Inorganic Anio OJS SCM 3052933	ns by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: E30 % Moisture: Basis: We	00P t Weight		
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	42.4	4.99	mg/kg	06.09.18 01.15		1	

Analytical Method: TPH by SW8015 Tech: ARM Analyst: ARM Seq Number: 3052902	Mod	Date Prep: 06.08.18 14.00			Prep Method: TX1005P % Moisture: Basis: Wet Weight				
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 01.23	U	1	
Diesel Range Organics (DRO)	C10C28DRO	203	15.0		mg/kg	06.09.18 01.23		1	
Oil Range Hydrocarbons (ORO)	PHCG2835	21.3	15.0		mg/kg	06.09.18 01.23		1	
Total TPH	PHC635	224	15.0		mg/kg	06.09.18 01.23		1	
Surrogate 1-Chlorooctane o-Terphenyl		Cas Number 111-85-3 84-15-1	% Recovery 92 95	Units % %	Limits 70-135 70-135	Analysis Date 06.09.18 01.23 06.09.18 01.23	Flag		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS07 Lab Sample Id: 588640-002		Matrix: Date Colle	Soil cted: 06.07.18 10.15		9		
Analytical Method: BTEX by EPA 3 Tech: ALJ Analyst: ALJ	8021B	Date Prep:	06.09.18 07.55		Prep Method: S % Moisture: Basis: W	W5030B Vet Weight	
Seq Number: 3052932 Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	06.10.18 01.01	U	1

Benzene	71-43-2	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	06.10.18 01.01	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	06.10.18 01.01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	06.10.18 01.01		
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.10.18 01.01		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS08 Lab Sample Id: 588640-003		Matrix:SoilDate ReceDate Collected:06.07.18 10.35Sample D				ed:06.08.18 10.09 th:6 In		
Analytical Method:Inorganic AnionTech:OJSAnalyst:SCMSeq Number:3052933	s by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: E30 % Moisture: Basis: We	00P et Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	<4.94	4.94	mg/kg	06.09.18 01.20	U	1	

Analytical Method: TPH by SW8015	5 Mod				Р	rep Method: TX	1005P	
Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Prep	p: 06.08	18 14.00	E	Basis: We	t Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	06.09.18 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	172	14.9		mg/kg	06.09.18 01.44		1
Oil Range Hydrocarbons (ORO)	PHCG2835	20.3	14.9		mg/kg	06.09.18 01.44		1
Total TPH	PHC635	192	14.9		mg/kg	06.09.18 01.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	06.09.18 01.44		
o-Terphenyl		84-15-1	93	%	70-135	06.09.18 01.44		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:	SS08		Matrix:	Soil		Date Received:06.		9
Lab Sample Id	1: 588640-003thod: BTEX by EPA 80)21B	Date Col	lected: 06.07.18 10.35		Sample Depth: 6 In Prep Method: SW		
Tech:	ALJ)21 D				% Moisture:	5050 D	
Analyst:	ALJ		Date Prej	p: 06.09.18 07.55		Basis: We	t Weight	
Seq Number:	3052932							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene		71-43-2	< 0.00201	0.00201	mg/kg	06.10.18 01.19	U	1
Toluono		109 99 3	<0.00201	0.00201	malia	06 10 18 01 10	I	1

Benzene	/1-43-2	<0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.10.18 01.19	U	1	
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
Total BTEX		< 0.00201	0.00201		mg/kg	06.10.18 01.19	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene		540-36-3	97	%	70-130	06.10.18 01.19			
4-Bromofluorobenzene		460-00-4	110	%	70-130	06.10.18 01.19			

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

EPA 300	Date Prep:	06.08.18 15.15		Prep Method: E3 % Moisture:		
	Date Prep:	06.08.18 15.15				
				Basis: We	et Weight	
Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
6887-00-6	1220	24.7	mg/kg	06.09.18 01.26		5
d				Prep Method: TX	(1005P	
	887-00-6	5887-00-6 1220	5887-00-6 1220 24.7	d	d Prep Method: TX	5887-00-6 1220 24.7 mg/kg 06.09.18 01.26

Tech: ARM					%	6 Moisture:		
Analyst: ARM		Date Pre	p: 06.08	.18 14.00	E	Basis: We	t Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	659	74.8		mg/kg	06.09.18 02.04		5
Diesel Range Organics (DRO)	C10C28DRO	3900	74.8		mg/kg	06.09.18 02.04		5
Oil Range Hydrocarbons (ORO)	PHCG2835	129	74.8		mg/kg	06.09.18 02.04		5
Total TPH	PHC635	4690	74.8		mg/kg	06.09.18 02.04		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	06.09.18 02.04		
o-Terphenyl		84-15-1	117	%	70-135	06.09.18 02.04		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample Id:	SS09 588640-004		Matrix: Date Collec	Soil ted: 06.07.18 10.50		Date Received:06.08.18 10 Sample Depth: 6 In			
Analytical Meth	od: BTEX by EPA 80	21B				Prep Method:	SW5030B		
Tech: A	ALJ					% Moisture:			
Analyst: A	ALJ		Date Prep:	06.10.18 08.30		Basis:	Wet Weight		
Seq Number: 3	3052970								
Parameter		Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil	
Danmana		71 42 2	<0.00200 0	00200	malka	06 10 19 21 3	24 II	1	

							8	
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	06.10.18 21.34	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.10.18 21.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	94	%	70-130	06.10.18 21.34		
4-Bromofluorobenzene		460-00-4	100	%	70-130	06.10.18 21.34		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: Lab Sample I	SS10 d: 588640-005		Matrix: Date Colle	Soil ected: 06.07.18 11.00	Date Received:06.08.1 7.18 11.00 Sample Depth: 6 In			9
Analytical Mo Tech: Analyst:	ethod: Inorganic Anions OJS SCM	s by EPA 300	Date Prep:	06.08.18 15.15		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Seq Number:	3052933						C	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil
Chloride		16887-00-6	325	4.96	mg/kg	06.09.18 01.3	31	1

Analytical Method: TPH by SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	% Moisture:		
Analyst: ARM		Date Pre	p: 06.08	.18 14.00	E	Basis: We	t Weight	
Seq Number: 3052902								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	06.09.18 02.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	06.09.18 02.25		
o-Terphenyl		84-15-1	98	%	70-135	06.09.18 02.25		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS10 Lab Sample Id: 588640-005		Matrix: Soil Date Collected: 06.07.18 11.00			Date Received:06.08.18 10.09 Sample Depth: 6 In			
Analytical Method: BTEX by EPA 80 Tech: ALJ	021B				Prep Method: % Moisture:	SW50)30B	
Analyst: ALJ		Date Prep:	06.09.18 07.55		Basis:	Wet V	Weight	
Seq Number: 3052932								
Parameter	Cas Number	Result F	Ľ	Units	Analysis D	ate	Flag	Dil

Farameter	Cas Number	Kesuit	KL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.10.18 01.55	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.10.18 01.55	U	1
			%					
Surrogate		Cas Number	Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	06.10.18 01.55		
4-Bromofluorobenzene		460-00-4	113	%	70-130	06.10.18 01.55		

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Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id:SS11Lab Sample Id:588640-006		Matrix: Date Collec	Soil ted: 06.07.18 10.20		Date Received:(Sample Depth: 6)
Analytical Method:Inorganic AnTech:OJSAnalyst:SCMSeq Number:3052933	ions by EPA 300	Date Prep:	06.08.18 15.15	Q	Prep Method: I % Moisture: Basis: N	E300P Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride	16887-00-6	164	4.98	mg/kg	06.09.18 01.4	7	1

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.09.18 02.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	210	15.0		mg/kg	06.09.18 02.45		1
Oil Range Hydrocarbons (ORO)	PHCG2835	19.2	15.0		mg/kg	06.09.18 02.45		1
Total TPH	PHC635	229	15.0		mg/kg	06.09.18 02.45		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	101	%	70-135	06.09.18 02.45		
o-Terphenyl		84-15-1	105	%	70-135	06.09.18 02.45		



Certificate of Analytical Results 588640



LT Environmental, Inc., Arvada, CO

Golden 8 Federal #1

Sample Id: SS11		Matrix:	Soil	Date Received:06.08.18 10.09					
Lab Sample Id: 588640-006		Date Colle	ected: 06.07.18 10.20		Sample Depth: 6 In				
Analytical Method: BTEX by EPA 8	8021B]	Prep Method: SW	5030B			
Tech: ALJ					% Moisture:				
Analyst: ALJ		Date Prep	: 06.09.18 07.55]	Basis: Wet	Weight			
Seq Number: 3052932									
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	06.10.18 02.13	U	1		
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	06.10.18 02.13	U	1		

							-	-	
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1	
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1	
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.10.18 02.13	U	1	
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1	
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1	
Total BTEX		< 0.00199	0.00199		mg/kg	06.10.18 02.13	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene		540-36-3	87	%	70-130	06.10.18 02.13			
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.10.18 02.13			

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit. J
- Analyte was not detected. U
- The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and L 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
- LOD Limit of Detection **MDL** Method Detection Limit SDL Sample Detection Limit
- **PQL** Practical Quantitation Limit **MQL** Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- Non-Calculable NC

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 #1

Analytical Method:	Inorganic Anions b	y EPA 300						Pre	ep Metho	d: E30	0P	
Seq Number:	3052933			Matrix:	Solid				Date Pre	p: 06.0	8.18	
MB Sample Id:	7656302-1-BLK		LCS Sar	nple Id:	7656302-	1-BKS		LCSI	O Sample	Id: 7656	6302-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD l	RPD Limi	t Units	Analysis Date	Flag
Chloride	< 5.00	250	270	108	267	107	90-110	1	20	mg/kg	06.09.18 00:05	

Analytical Method:	Inorganic Anions b	y EPA 300						Prep Method: E300P				
Seq Number:	3052933			Matrix:	Soil				Date Pr	ep: 06.0	8.18	
Parent Sample Id:	588639-001		MS Sample Id: 588639-001 S				MSD Sample Id: 588639-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	47.6	247	345	120	337	117	90-110	2	20	mg/kg	06.09.18 00:21	Х

Analytical Method:	Inorganic Anions b	y EPA 300						Prep Method: E300P				
Seq Number:	3052933			Matrix:	Soil				Date Pre	p: 06.0	8.18	
Parent Sample Id:	588640-005		MS Sar	nple Id:	588640-00)5 S		MS	D Sample	Id: 588	540-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	325	248	583	104	584	104	90-110	0	20	mg/kg	06.09.18 01:36	

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3052902 7656356-2		od	LCS Sar	Matrix: nple Id:		1-BKS			Prep Methoc Date Prep SD Sample	o: 06.0	1005P)8.18 6356-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocar	bons (GRO)	<15.0	1000	943	94	954	95	70-135	1	20	mg/kg	06.08.18 19:37	
Diesel Range Organics	(DRO)	<15.0	1000	993	99	1000	100	70-135	1	20	mg/kg	06.08.18 19:37	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree		-	Limits	Units	Analysis Date	
1-Chlorooctane		101		1	22		125		7	0-135	%	06.08.18 19:37	
o-Terphenyl		106		1	08		107		7	0-135	%	06.08.18 19:37	

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

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Page 19 of 23

Released to Imaging: 7/23/2021 11:43:53 AM



Golden 8 Federal #1

Analytical Method:TPH by \$Seq Number:3052902Parent Sample Id:588620-0	lod		Matrix: nple Id:		01 S			rep Method Date Prep D Sample 1	o: 06.0	.005P 8.18 520-001 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	890	89	903	90	70-135	1	20	mg/kg	06.08.18 20:38	
Diesel Range Organics (DRO)	<15.0	998	924	93	942	94	70-135	2	20	mg/kg	06.08.18 20:38	
Surrogate				AS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane			1	22		124		70)-135	%	06.08.18 20:38	
o-Terphenyl			1	07		107		70)-135	%	06.08.18 20:38	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3052932 7656352-1-BLK	1B		Prep Method: Matrix: Solid Date Prep: S Sample Id: 7656352-1-BKS LCSD Sample Id CS LCSD LCSD Limit V DDD Dirit 1					ep: 06.0			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0866	86	0.0847	85	70-130	2	35	mg/kg	06.09.18 18:38	
Toluene	< 0.00202	0.101	0.0902	89	0.0897	90	70-130	1	35	mg/kg	06.09.18 18:38	
Ethylbenzene	< 0.00202	0.101	0.0922	91	0.0914	91	70-130	1	35	mg/kg	06.09.18 18:38	
m,p-Xylenes	< 0.00403	0.202	0.192	95	0.187	94	70-130	3	35	mg/kg	06.09.18 18:38	
o-Xylene	< 0.00202	0.101	0.0929	92	0.0977	98	70-130	5	35	mg/kg	06.09.18 18:38	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene	89		9	95		94		,	70-130	%	06.09.18 18:38	
4-Bromofluorobenzene	93		ç	95		99		,	70-130	%	06.09.18 18:38	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3052970 7656395-1-BLK	1B		1 1						ep: 06.1	SW5030B 06.10.18 7656395-1-BSD		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag	
Benzene	< 0.00200	0.100	0.0879	88	0.0862	85	70-130	2	35	mg/kg	06.10.18 19:28		
Toluene	< 0.00200	0.100	0.0934	93	0.0907	90	70-130	3	35	mg/kg	06.10.18 19:28		
Ethylbenzene	< 0.00200	0.100	0.0917	92	0.0893	88	70-130	3	35	mg/kg	06.10.18 19:28		
m,p-Xylenes	< 0.00401	0.200	0.189	95	0.185	92	70-130	2	35	mg/kg	06.10.18 19:28		
o-Xylene	< 0.00200	0.100	0.0921	92	0.0897	89	70-130	3	35	mg/kg	06.10.18 19:28		
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re		-	Limits	Units	Analysis Date		
1,4-Difluorobenzene	93		9	99		94		,	70-130	%	06.10.18 19:28		
4-Bromofluorobenzene	87		Ģ	98		94		,	70-130	%	06.10.18 19:28		

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

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Page 20 of 23



Golden 8 Federal #1

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3052932 588112-021	1B		Matrix: nple Id:	Soil 588112-02	21 S			Prep Metho Date Prej SD Sample	p: 06.0	5030B)9.18 112-021 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0473	47	0.0544	55	70-130	14	35	mg/kg	06.09.18 19:16	Х
Toluene	< 0.00200	0.100	0.0502	50	0.0567	57	70-130	12	35	mg/kg	06.09.18 19:16	Х
Ethylbenzene	< 0.00200	0.100	0.0468	47	0.0537	54	70-130	14	35	mg/kg	06.09.18 19:16	Х
m,p-Xylenes	< 0.00401	0.200	0.0968	48	0.111	56	70-130	14	35	mg/kg	06.09.18 19:16	Х
o-Xylene	< 0.00200	0.100	0.0465	47	0.0653	66	70-130	34	35	mg/kg	06.09.18 19:16	Х
Surrogate				AS Rec	MS Flag	MSD %Red		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene			:	88		106		7	0-130	%	06.09.18 19:16	
4-Bromofluorobenzene			9	95		104		7	0-130	%	06.09.18 19:16	

Analytical Method:	BTEX by EPA 8021B Prep Method: SW5030B											
Seq Number:	3052970		1	Matrix:	Soil				Date Prep	p: 06.1	0.18	
Parent Sample Id:	588647-004	MS Sample Id: 588647-004			04 S	S MSD Sample Id: 588647-004 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0756	75	0.0760	75	70-130	1	35	mg/kg	06.10.18 20:04	
Toluene	< 0.00202	0.101	0.0813	80	0.0797	79	70-130	2	35	mg/kg	06.10.18 20:04	
Ethylbenzene	< 0.00202	0.101	0.0814	81	0.0819	81	70-130	1	35	mg/kg	06.10.18 20:04	
m,p-Xylenes	< 0.00404	0.202	0.167	83	0.171	85	70-130	2	35	mg/kg	06.10.18 20:04	
o-Xylene	< 0.00202	0.101	0.0767	76	0.0782	77	70-130	2	35	mg/kg	06.10.18 20:04	
Surrogate				IS Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			9	8		98			70-130	%	06.10.18 20:04	
4-Bromofluorobenzene			10	04		106			70-130	%	06.10.18 20:04	

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

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'y negotiated under a fully executed client contract.

Final 1.000

Setting the Standard since 1990

ABORATORIES



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: 06/08/2018 10:09:00 AM Temperature Measuring device used : R8 Work Order #: 588640 Sample Receipt Checklist Comments #1 *Tomporature of coolor(c)? 12

#1 "Temperature of cooler(s)?	4.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A
	#2 *Shipping container in good condition? #3 *Samples received on ice? #4 *Custody Seals intact on shipping container/ cooler? #5 Custody Seals intact on sample bottles? #6*Custody Seals Signed and dated? #7 *Chain of Custody present? #8 Any missing/extra samples? #9 Chain of Custody signed when relinquished/ received? #10 Chain of Custody agrees with sample labels/matrix? #11 Container label(s) legible and intact? #13 Samples properly preserved? #14 Sample container(s) intact? #15 Sufficient sample amount for indicated test(s)? #16 All samples received within hold time? #17 Subcontract of sample(s)?

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Checklist reviewed by: Jessica Krame

Date: 06/08/2018

Jessica Kramer

Date: 06/08/2018

Analytical Report 589277

for

LT Environmental, Inc.

Project Manager: Adrian Baker

Golden 8 Federal 1

15-JUN-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-15) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



15-JUN-18

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

Reference: XENCO Report No(s): 589277 Golden 8 Federal 1 Project Address: NM 2RP-3612

Adrian Baker:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 589277. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 589277 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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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 17







Sample Cross Reference 589277

LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01 A	S	06-13-18 09:50	7 ft	589277-001
BH01 B	S	06-13-18 10:30	10.5 ft	589277-002
BH01 C	S	06-13-18 11:15	12.5 ft	589277-003

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CASE NARRATIVE

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

Project ID: Work Order Number(s): 589277 Report Date:15-JUN-18Date Received:06/14/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3053586 TPH by SW8015 Mod Surrogate o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by reanalysis. Samples affected are: 589277-001 S.

Batch: LBA-3053603 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Project Id: Contact: A Project Location: N

Adrian Baker NM 2RP-3612

Certificate of Analysis Summary 589277

LT Environmental, Inc., Arvada, CO

Project Name: Golden 8 Federal 1



Date Received in Lab:Thu Jun-14-18 02:00 pmReport Date:15-JUN-18Project Manager:Jessica Kramer

	Lab Id:	589277-0	001	589277-0	002	589277-0	03		
Analysis Deguested	Field Id:	BH01	A	BH01	в	BH01 0	2		
Analysis Requested	Depth:	7- ft		10.5- f	t	12.5- f			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jun-13-18	09:50	Jun-13-18	10:30	Jun-13-18	1:15		
BTEX by EPA 8021B	Extracted:	Jun-14-18	16:00	Jun-14-18	16:00	Jun-14-18 1	6:00		
	Analyzed:	Jun-14-18	19:08	Jun-14-18	19:26	Jun-14-18 1	9:44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Toluene		< 0.00201	0.00201	<0.00199	0.00199	< 0.00200	0.00200		
Ethylbenzene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
m,p-Xylenes		< 0.00402	0.00402	<0.00398	0.00398	< 0.00400	0.00400		
o-Xylene		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Total Xylenes		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Total BTEX		< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200		
Inorganic Anions by EPA 300	Extracted:	Jun-14-18	14:30	Jun-14-18	14:30	Jun-14-18 1	4:30		
	Analyzed:	Jun-14-18	18:51	Jun-14-18	18:56	Jun-14-18 1	9:02		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1290	24.6	212	4.94	107	5.00		
TPH by SW8015 Mod	Extracted:	Jun-15-18	12:00	Jun-15-18	12:00	Jun-15-18 1	2:00		
	Analyzed:	Jun-15-18	14:06	Jun-15-18	15:06	Jun-15-18 1	5:27		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)		331	15.0	126	15.0	258	15.0		
Oil Range Hydrocarbons (ORO)		24.0	15.0	<15.0	15.0	17.1	15.0		
Total TPH		355	15.0	126	15.0	275	15.0		

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

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

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Jessica Kramer Project Assistant

Page 73 of 86



Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 A Lab Sample Id: 589277-001		Matrix: Date Colle	Soil cted: 06.13	.18 09.50		Date Received:06 ample Depth:7 f)
Analytical Method: Inorganic Anic	ons by EPA 300				P	rep Method: E3	00P	
Tech: SCM					%	Moisture:		
Analyst: SCM		Date Prep:	06.14	.18 14.30	E	asis: We	et Weight	
Seq Number: 3053433							8	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1290	24.6		mg/kg	06.14.18 18.51		5
Analytical Method:TPH by SW801Tech:ARMAnalyst:JUMSeq Number:3053586	15 1900	Date Prep:	06.15	.18 12.00	%	rep Method: TX 6 Moisture: Basis: Wo	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	06.15.18 14.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	331	15.0		mg/kg	06.15.18 14.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	24.0	15.0		mg/kg	06.15.18 14.06		1
Total TPH	PHC635	355	15.0		mg/kg	06.15.18 14.06		1
			0/					1
Surrogoto		Cac Number -	%	Unite	Limita	Analysis Data	Flog	1
Surrogate 1-Chlorooctane		Cas Number R	% Aecovery 83	Units %	Limits 70-135	Analysis Date 06.15.18 14.06	Flag	1

88

%

70-135

06.15.18 14.06

84-15-1

o-Terphenyl

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 A Lab Sample Id: 589277-001	Matrix: Soil Date Collected: 06.13.18 09.50	Date Received:06.14.18 14.00 Sample Depth:7 ft
Analytical Method: BTEX by EPA 8021B Tech: ALJ		Prep Method: SW5030B % Moisture:
Analyst: ALJ Seq Number: 3053603	Date Prep: 06.14.18 16.00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.14.18 19.08	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.14.18 19.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	06.14.18 19.08		
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.14.18 19.08		

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 B Lab Sample Id: 589277-002		Matrix: Date Collec	Soil cted: 06.13.18 10.30		Date Received:06. Sample Depth:10.)
Analytical Method: Inorganic Anic	ns by EPA 300				Prep Method: E30)0P	
Tech: SCM					% Moisture:		
Analyst: SCM		Date Prep:	06.14.18 14.30		Basis: We	t Weight	
Seq Number: 3053433		-					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	4.94	mg/kg	06.14.18 18.56		1
Analytical Method: TPH by SW80 Tech: ARM Analyst: JUM	15 Mod	Date Prep:	06.15.18 12.00		Prep Method: TX % Moisture: Basis: We	1005P t Weight	
Seq Number: 3053586		Date Trept				U	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.15.18 15.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	126	15.0	mg/kg	06.15.18 15.06		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	06.15.18 15.06	U	1
Total TPH	PHC635	126	15.0	mg/kg	06.15.18 15.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	06.15.18 15.06	
o-Terphenyl	84-15-1	79	%	70-135	06.15.18 15.06	

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 B Lab Sample Id: 589277-002		Matrix: Date Collected	Soil 1: 06.13.18 10.30		ived:06.14.18 14.00 epth:10.5 ft	0
Analytical Method: BTEX by EPA Tech: ALJ	8021B			Prep Meth % Moistur	od: SW5030B	
Analyst: ALJ Seq Number: 3053603		Date Prep:	06.14.18 16.00	Basis:	Wet Weight	
Parameter	Cas Number	Result P	r	Unite Analysi	is Data Flag	Б

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	06.14.18 19.26	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	06.14.18 19.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	06.14.18 19.26		
1,4-Difluorobenzene		540-36-3	101	%	70-130	06.14.18 19.26		

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: BH01 C Lab Sample Id: 589277-003		Matrix: Date Colle	Soil cted: 06.13.	.18 11.15		Date Received:06. Sample Depth:12.)
Analytical Method: Inorganic Anior	ns by EPA 300				P	Prep Method: E3	00P	
Tech: SCM					%	% Moisture:		
Analyst: SCM		Date Prep:	06.14.	.18 14.30	E	Basis: We	et Weight	
Seq Number: 3053433							U	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	5.00		mg/kg	06.14.18 19.02		1
Applytical Mathad TDU by SW801	5 Mod				D	Prop Mathady TV	1005P	
Analytical Method: TPH by SW801 Tech: ARM Analyst: JUM Seq Number: 3053586	5 Mod	Date Prep:	06.15.	.18 12.00	%	Prep Method: TX 6 Moisture: Basis: We	(1005P et Weight	
Tech: ARM Analyst: JUM	5 Mod Cas Number	Date Prep: Result	06.15. RL	.18 12.00	%	6 Moisture:		Dil
Tech: ARM Analyst: JUM Seq Number: 3053586				.18 12.00	% E	Moisture: Basis: We	et Weight	Dil
Tech: ARM Analyst: JUM Seq Number: 3053586 Parameter	Cas Number	Result	RL	.18 12.00	% E Units	6 Moisture: Basis: We Analysis Date	et Weight Flag	
Tech: ARM Analyst: JUM Seq Number: 3053586 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <15.0	RL 15.0	.18 12.00	% E Units mg/kg	Moisture: Basis: We Analysis Date 06.15.18 15.27	et Weight Flag	
Tech: ARM Analyst: JUM Seq Number: 3053586 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <15.0 258	RL 15.0 15.0	.18 12.00	9, E Units mg/kg mg/kg	6 Moisture: Basis: We Analysis Date 06.15.18 15.27 06.15.18 15.27	et Weight Flag	1
Tech: ARM Analyst: JUM Seq Number: 3053586 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Oil Range Hydrocarbons (ORO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <15.0 258 17.1 275	RL 15.0 15.0 15.0	.18 12.00	9, E Units mg/kg mg/kg mg/kg	6 Moisture: Basis: We <u>Analysis Date</u> 06.15.18 15.27 06.15.18 15.27 06.15.18 15.27	et Weight Flag	1 1 1

84-15-1

%

70-135

06.15.18 15.27

99

1-Chlorooctane o-Terphenyl

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Certificate of Analytical Results 589277



LT Environmental, Inc., Arvada, CO

Golden 8 Federal 1

Sample Id: Lab Sample Id:	BH01 C 589277-003	Matrix: Date Collected	Soil l: 06.13.18 11.15	Date Received Sample Depth	1:06.14.18 14.00 1:12.5 ft
2	nod: BTEX by EPA 8021B ALJ			Prep Method: % Moisture:	SW5030B
Analyst:	ALJ 3053603	Date Prep:	06.14.18 16.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	06.14.18 19.44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.14.18 19.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	109	%	70-130	06.14.18 19.44		
1,4-Difluorobenzene		540-36-3	103	%	70-130	06.14.18 19.44		

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Flagging Criteria



Page 80 of 86

- 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 Cli	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	oratory 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 1

Analytical Method:	Inorganic Anions by	EPA 300						Pr	ep Metho	d: E30	0P	
Seq Number:	3053433			Matrix:	Solid				Date Pre	ep: 06.1	4.18	
MB Sample Id:	7656636-1-BLK		LCS Sat	nple Id:	7656636-	1-BKS		LCS	D Sample	Id: 7656	6636-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	< 5.00	250	257	103	257	103	90-110	0	20	mg/kg	06.14.18 12:29	

Analytical Method:	Inorganic Anions by	y EPA 300						Pı	ep Metho	od: E30	0P	
Seq Number:	3053433			Matrix:	Soil				Date Pre	ep: 06.1	4.18	
Parent Sample Id:	588898-002		MS Sa	mple Id:	588898-0	02 S		MS	D Sample	Id: 5888	898-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	321	250	558	95	559	95	90-110	0	20	mg/kg	06.14.18 17:57	

Analytical Method:	Inorganic Anions by	y EPA 300						Pr	ep Metho	od: E30	0P	
Seq Number:	3053433			Matrix:	Soil				Date Pre	ep: 06.1	4.18	
Parent Sample Id:	589043-001		MS Sat	mple Id:	589043-0	01 S		MSI	D Sample	Id: 5890	043-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Chloride	7.35	247	270	106	264	104	90-110	2	20	mg/kg	06.14.18 12:46	

Analytical Method:	TPH by S	W8015 M	od						Р	rep Meth	od: TX1	005P	
Seq Number:	3053586				Matrix:	Solid				Date Pr	ep: 06.1	5.18	
MB Sample Id:	7656745-	1-BLK		LCS Sat	mple Id:	7656745-	1-BKS		LCS	SD Sample	e Id: 765	6745-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	837	84	847	85	70-135	1	20	mg/kg	06.15.18 13:26	
Diesel Range Organics	(DRO)	<15.0	1000	827	83	854	85	70-135	3	20	mg/kg	06.15.18 13:26	
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1-Chlorooctane		80		1	07		109		70	0-135	%	06.15.18 13:26	
o-Terphenyl		84		:	86		83		70	0-135	%	06.15.18 13:26	

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

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

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Page 13 of 17

Released to Imaging: 7/23/2021 11:43:53 AM



Golden 8 Federal 1

Analytical Method: Seq Number: Parent Sample Id:	TPH by \$ 3053586 589277-0	5W8015 M 01	lod	MS Sa	Matrix: mple Id:	Soil 589277-0	01 S				ep: 06.1	1005P 15.18 277-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	999	820	82	871	87	70-135	6	20	mg/kg	06.15.18 14:26	
Diesel Range Organics ((DRO)	331	999	1140	81	1160	83	70-135	2	20	mg/kg	06.15.18 14:26	
Surrogate					AS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	.09		102		70)-135	%	06.15.18 14:26	
o-Terphenyl				:	54	**	90		70	0-135	%	06.15.18 14:26	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 8021 3053603 7656667-1-BLK	lB		Matrix: mple Id:	Solid 7656667-	1-BKS			rep Methe Date Pr SD Sample	ep: 06.1	5030B 4.18 6667-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0941	94	0.0871	87	70-130	8	35	mg/kg	06.14.18 17:19	
Toluene	< 0.00200	0.100	0.101	101	0.0930	93	70-130	8	35	mg/kg	06.14.18 17:19	
Ethylbenzene	< 0.00200	0.100	0.0993	99	0.0925	93	70-130	7	35	mg/kg	06.14.18 17:19	
m,p-Xylenes	< 0.00401	0.200	0.208	104	0.194	97	70-130	7	35	mg/kg	06.14.18 17:19	
o-Xylene	< 0.00200	0.100	0.106	106	0.0910	91	70-130	15	35	mg/kg	06.14.18 17:19	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	98		9	92		99		7	0-130	%	06.14.18 17:19	
4-Bromofluorobenzene	89		1	00		122		7	0-130	%	06.14.18 17:19	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021B Prep Method: SW5030B 3053603 Matrix: Soil Date Prep: 06.14.18 588822-002 MS Sample Id: 588822-002 SD MSD Sample Id: 588822-002 SD											
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RP D	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0578	58	0.0661	65	70-130	13	35	mg/kg	06.14.18 17:55	Х
Toluene	< 0.00201	0.100	0.0592	59	0.0663	66	70-130	11	35	mg/kg	06.14.18 17:55	Х
Ethylbenzene	< 0.00201	0.100	0.0519	52	0.0592	59	70-130	13	35	mg/kg	06.14.18 17:55	Х
m,p-Xylenes	< 0.00402	0.201	0.107	53	0.120	60	70-130	11	35	mg/kg	06.14.18 17:55	Х
o-Xylene	< 0.00201	0.100	0.0520	52	0.0572	57	70-130	10	35	mg/kg	06.14.18 17:55	Х
Surrogate			M %1	IS Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	06		97		70	0-130	%	06.14.18 17:55	
4-Bromofluorobenzene			1	06		123		70	0-130	%	06.14.18 17:55	

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

Final 1.000

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

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CHAIN OF CUSTODY Page 1 of 1

Name Number: Name Number: Name Number: Name Number: Project Information Project Information Project Information Project Information Project Information NM $2 p - 3 6 l 2$ None Number of preserved bottles Output: $1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 $	7		Turnaround Time (Business days) Same Day TAT Next Day EMERGENCY 2 Day EMERGENCY 3 Day EMERGENCY	Turnaround Time (Business days) Turnaround Time (Business days) Next Day EMERGENCY 2 Day EMERGENCY	Turnaround Time (Business days)	Turnaround Time (Business days)			3	7	6	3 8#010 12	2 BHORE 10.	-	No. Field ID / Point of Collection Se		Samplers's Name Lynde Lawbach	Adrian Baker	ar@LTEnv.com	3300 North "A" Street, Building 1, Unit #103, Midland, TX 79705 Email: Phone No:	Company Adress: Company Address:	Client / Reporting Information		
	3. DE DOOBIERTED DELOTE ERON TIME AMIFLES CHANGE POSSEPSION, INCLUDING COURIER DELIVERY	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY		TRRP Checklist	Level 3 (CLP Forms) UST / RG -411	Level III Std QC+ Forms TRRP Level IV	Level II Std QC Level IV (Full Data Pkg /raw data)	Data Deliverable Information				S V 11:15	5' 10:30	-	Date Time Matrix bottles of HCI NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MEOH NONE BTE1	Number of preserved bottles	80	2	1 (0 BRQ, 1	NM 2RP-3612 400	Golden & Federal 1	oject Information	Analytical Information	

Received/by (OCD:11/3/2020 3:112:00 PM

Page 83 of 86

ABORATORIES

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

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

Phoenix, Arizona (480-355-0900)

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After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 06/14/2018 02:00:00 PM Temperature Measuring device used : R8 Work Order #: 589277 Sample Receipt Checklist Comments

#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Checklist reviewed by: Jessica Krame

Date: 06/14/2018

Jessica Kramer

Date: 06/14/2018

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	3172
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Deferral approved for nKMW1106629393 until P&A or major modification of site	7/23/2021

Action 3172

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Page 86 of 86