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

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

OCT 08 2014

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

RECEIVED

		2. 2.	Rel	ease Notifi	catio	n and C	orrective A	ctio	n s		=	
1AB142	813386	5/				OPERA	TOR		🛛 Initi	al Report	Final F	Repo
Name of Company: BOPCO, L.P. 200737 Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220					Contact: Tony Savoie							
					0	Telephone No. 575-887-7329						
Facility Na	Facility Name: North Indian Flats 26 Federal #1				l.	Facility Type: Exploration and Production						
Surface Ow	ner: Feder	al	2,000	Mineral (Owner:	Federal			API No	. 30-015-2	7556	
				LOCA	ATIO	N OF RE	LEASE				8	
Unit Letter G	Tel: 1.0 Telegraph 선생님 - 1.0 Telegraph - 1.1 Hereign 뉴잉 - 1.1 Hereign			North North	A STATE OF S		East/ East	West Line	County Eddy			
		-				-	W 104.054648	3			7 8	
Tuna e CD-la	CI	than the day		NAT	TURE	OF RELI			F 1		111	
Type of Keles	ase: Crude (oil and Produc	ced water				Release: 2 bbls c bls produced water			lecovered: I uced water	bbl crude oil ar	nd 4
Source of Re	ease: Flang	e gasket on w	ater transf	er pump.	Ti	Date and H	lour of Occurrence		Date and		covery: 9/24/14 m.	at
Was Immedia	te Notice G		Yes 🗌	No 🔲 Not Re	equired	If YES, To Whom?						
By Whom? T						Date and Hour: 9/24/14 at 2:46 p.m.						
Was a Watero	ourse Reacl		Yes 🛚	No		If YES, Volume Impacting the Watercourse.						
							water transfer pu		8			
Describe Area tank. The spill	Affected at area will be	nd Cleanup Ac e remediated f	ction Take ollowing	n.* The spill affe the NMOCD and	ected app BLM gi	proximately 4 uidelines for s	50 sq. ft. of earth spills and releases	en conta	ainment ber	m around the	; water storage	12
regulations all public health o should their op	operators are the enviro erations have nent. In add	re required to nment. The a ve failed to addition, NMOC	report and ceptance equately it is acceptant.	or file certain re of a C-141 repor nvestigate and res	lease no t by the mediate	tifications and NMOCD man contamination	nowledge and und perform correct rked as "Final Rent that pose a threat the operator of rent that pose as the operator of	ive action port" do at to gro	ons for relea oes not relie ound water,	ises which move the operate surface water	ay endanger for of liability r, human health	h
				OIL CONSERVATION DIVISION								
Printed Name: Tony Savoie A				Approved by Environmental Specialist Branches								
itle: Waste Ma	inagement a	and Remediati	ion Specia	list	A	Approval Date: 1018/14 Expiration Date: NA						
E-mail Address	: tasavoie@	basspet.com				onditions of A				Attached C	7	
Date: 101	7/14			32-556-8730	Reme	ediation pe	r O.C.D. Rule	s & G	uidelines	Attached [
ttach Additio	nal Sheets	If Necessary	Y		ATE	R THAN:	ग्राप्राप	. OGA		76	P- 2523	3

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-2523	
Facility ID		
Application ID		

Release Notification

Responsible Party

Responsible Party: X10 Energy, Inc				OGRID: 5380				
Contact Name: Kyle Littrell					Contact Telephone: (432)-221-7331			
Contact email: Kyle_Littrell@xtoenergy.com					Incident #:			
Contact mailin	ng address	522 W. Mermod,	Suite 704 Carlsba	d, NM	88220			
	Location of Release Source							
Latitude 32.452537						de -104.054648		
Site Name N	orth Indian	Flats 26 Federal	#1		Site Typ	e Exploration and Production		
Date Release D	Discovered	9/24/2014			API# (if	applicable) 30-015-27556		
Unit Letter	Section	Township	Range		C	ounty		
	26	21S	28E	Eddy				
Crude Oil	Material	(s) Released (Select al Volume Release	Nature and that apply and attach d (bbls) 2			ific justification for the volumes provided below) Volume Recovered (bbls) 1		
	Vatan							
⊠ Hoducca v	vaici	Volume Release	ion of dissolved c	1.1	! <i>1</i> 1	Volume Recovered (bbls) 4		
		produced water >		nioriae	e in the Yes No			
☐ Condensate		Volume Release	d (bbls)			Volume Recovered (bbls)		
☐ Natural Gas	S	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			units)	s) Volume/Weight Recovered (provide units)				
Cause of Release								
A flange gasket failed on the water transfer pump. The flange gasket was replaced. The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank.								

Incident ID	
District RP	2RP-2523
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsil	ple party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
` ,		
Yes No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom	? When and by what means (phone, email, etc)?
IVA		
	Initial Resp	oonse
The responsible p	party must undertake the following actions immediately un	less they could create a safety hazard that would result in injury
The source of the release	ase has been stopped.	
☐ The impacted area has	s been secured to protect human health and the	environment.
Released materials have	ve been contained via the use of berms or dike	s, absorbent pads, or other containment devices.
All free liquids and red	coverable materials have been removed and m	anaged appropriately.
If all the actions described	above have not been undertaken, explain why	:
Per 19.15.29.8 B. (4) NMA	AC the responsible party may commence reme	diation immediately after discovery of a release. If remediation
nas begun, please attach a within a lined containment	narrative of actions to date. If remedial effort area (see 19.15.29.11(A)(5)(a) NMAC), please	rts have been successfully completed or if the release occurred e attach all information needed for closure evaluation.
		of my knowledge and understand that pursuant to OCD rules and
regulations all operators are re	equired to report and/or file certain release notificat	ons and perform corrective actions for releases which may endanger
public health or the environme	ent. The acceptance of a C-141 report by the OCD	does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In
addition, OCD acceptance of a	a C-141 report does not relieve the operator of resp	onsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:Kyle	Littrell T	itle: _SH&E Supervisor
Signature:	that	Date: _8/28/2019
email: Kyle Littrell@xtoen	Talanh	one:432-221-7331
	Teleph	
OCD Only		
Received by:	Da	te:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2523	
Facility ID		
Application ID		

Site Assessment/Characterization

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

	<u> </u>		
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site? ☐ Yes ☒ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.			

<u> </u>	
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.	
│ ☑ Field data	
Data table of soil contaminant concentration data	
Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs	
Photographs including date and GIS information	
☐ Topographic/Aerial maps	
Laboratory data including chain of custody	

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

Incident ID	
District RP	2RP-2523
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: Kyle Littrell Signature: Kyle Littrell@xtoenergy.com	Title:SH&E Supervisor Date:8/28/2019 Telephone:(432)-221-7331				
OCD Only Received by:	Date:				

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2523	
Facility ID		
Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
☐ Description of remediation activities					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell Title: SH&E Supervisor Telephone: 432-221-7331					
	-	432-221-7331			
OCD Only					
Received by:	Date:				
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible			
Closure Approved by: <u>Bradford Billings</u>	Date:	05/12/2020			
Printed Name: Bradford Billings	Title:	05/12/2020 E.Spec.A			

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy, Minerals and Natural Resources

JAN 2 1 2015 Form C-141
Revised August 8, 2011

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

Oil Conservation Division 1220 South St. Francis Dr.

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

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

District II 811 S. First St., Artesia, NM 88210

es garene a a

Santa Fe, NM 87505 Release Notification and Corrective Action

NABIS	02633	3538			-	OPERA'		_	Init	ial Report		Final Repo
Name of Company: BOPCO, L.P. 260737				Contact: Tony Savoie								
Address: 522 W. Mermod, Suite 704 Carlsbad, N:M. 88220			Telephone No. 575-887-7329									
Facility Na	me: North	Indian Flats	26 Feder	al #1	1	Facility Type	e: Exploration	and Pro	oduction			
Surface Ov	vner: Feder	al .		Mineral (Owner:	Federal			API No	o. 30-015-2	7556	
				LOCA	ATIO	N OF RE	LEASE			20		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		3010
G	26	218	28E	2150	North	9	1980	East		Eddy		
8		20		Latitude N 32	.45253	7 Longitude	W 104.054648	L——				
				NAT	URE	OF RELI	EASE					
Type of Rele	ase: Produc	ed water					Release: 7 bbls		Volume F	Recovered: 4	bbls pr	roduced
						produced w			water			
Source of Re	lease: Air E	liminator				Date and H 1/12/14 1 m	our of Occurrence	e		Hour of Discately 1:17 p.		1/12/14
Was Immedia	ate Notice C	iiven?				If YES, To	Whom?		1			
			Yes 🗌	No 🛛 Not Re	quired	M. Bratche	r, H. Patterson an	d Jim A	mos			
By Whom?		*HDCOMPAL				Date and He						
Was a Watero	course Reac	hed?	Yes 🛚	No		If YES, Volume Impacting the Watercourse.						
If a Watercou	rse was Imp	acted, Descri	be Fully.*	1-112	ψ,							
=			2 22.00				#					1
												İ
5			160									
Describe Caus	e of Proble	m and Remed	ial Action	Taken.* An air e	liminato	r on the water	r transfer pump fa	iled, the	e part was i	eplaced.		
Describe Area	Affected at	nd Cleanun A	ction Take	n * The snill affe	cted ann	rovimately 4	50 sq. ft. of earthe	n conta	inment her	m around the	water	storage
tank. Same are	a impacted	as previous s	oill on 9/2	4/14, reference sp	ill repor	t #2RP-2523.	The spill area wil	l be ren	nediated for	llowing the !	vater VMOCI	D and BLM
guidelines for	spills and re	eleases.			€.		•			Ü		
				F								1
I hereby certify	that the in	formation give	en above i	s true and comple	te to the	best of my k	nowledge and un	derstand	d that pursu	ant to NMO	CD rule	es and
regulations all	operators as	re required to	report and	or file certain rel	lease not	ifications and	perform correcti	ve actic	ns for relea	ises which m	av end	anger
public health o	r the enviro	nment. The a	cceptance	of a C-141 report	t by the I	NMOCD mar	ked as "Final Rep that pose a threa	ort" do	es not relie	ve the opera	or of li	ability
or the environn	nent. In ado	lition, NMOC	D accenta	nce of a C-141 re	neurate (contaminatior es not relieve i	n that pose a threa the operator of re	t to gro sponsih	und water,	surtace wate	r, huma h anv o	an health
federal, state, o	r local laws	and/or regula	itions.					sp onoio	inty for co.	inpirative wit	ii aaiy o	
					1		OIL CONSI	ERVA	TION I	DIVISION	1	
Signature:	ou 5	2 augus			1				. /	1		
Approved by Environmental Specialist:												
Printed Name:	Tony Savoid	e			1 1	proved by El	TVITOIIIII SPE	cialist.	tri	U		
Title: Waste Management and Remediation Specialist Ap				Approval Date: 1/23/15 Expiration Date: WA								
E-mail Address	E-mail Address: tasavoie@basspet.com Conditions of Approval:											
1 /-					Rem	ediation po	er O.C.D. Rule	es & G	uideline	Attached [1	1
Date: \ / Z	1/15			2-556-8730	UBI	MIT REME	DIATION PRO	POS	ALNO	S "		
Attach Additio	nal Sheets	If Necessary	y	26		R THAN:_	2 23 15	J	-	0/	201	160
(4)							-			11	1/-/	159

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-2759
Facility ID	
Application ID	

Release Notification

Responsible Party

sible Party: XTO Energy, Inc OGRID: 5380	OGRID: 5380		
Name: Kyle Littrell Contact Telephone: (432)-221-7331	Contact Telephone: (432)-221-7331		
email: Kyle_Littrell@xtoenergy.com	Incident #:		
mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220			
Location of Release Source 32.452537			
ne North Indian Flats 26 Federal #1 Site Type Exploration and Production			
ease Discovered 1/12/2015 API# (if applicable) 30-015-27556			
ter Section Township Range County			
26 21S 28E Eddy			
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) e Oil Volume Released (bbls) Volume Recovered (bbls)			
uced Water Volume Released (bbls) 7 Volume Recovered (bbls) 4			
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			
ensate Volume Released (bbls) Volume Recovered (bbls)			
ral Gas Volume Released (Mcf) Volume Recovered (Mcf)			
(describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			
Release			
iminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of earthen tent berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference spill reports.			
Is the concentration of dissolved chloride in the produced water >10,000 mg/l? ensate Volume Released (bbls) Volume Recovered (bbls) ral Gas Volume Released (Mcf) Volume Recovered (Mcf) r (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide unit) Release iminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of eatent berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference sp	arthen		

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
☐ Yes ☒ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	
	Initial Response
The responsible p	arty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release	ase has been stopped.
The impacted area has	been secured to protect human health and the environment.
Released materials have	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and red	coverable materials have been removed and managed appropriately.
If all the actions described	above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMA	AC 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
	area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the inform	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are re	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigat	e and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of a	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
si man	Sund.
Signature:	Date: _8/28/2019
email: Kyle Littrell@xtoen	rergy.com Telephone: 432-221-7331
	1 0
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2759
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?					
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?					
Are the lateral extents of the release within 300 feet of a wetland?					
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?					
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?					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody					

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

Form C-141

Page 4

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Kyle Littrell Signature: Kyle Littrell	Title:SH&E Supervisor Date:8/28/2019					
email:Kyle_Littrell@xtoenergy.com Telephone:(432)-221-7331						
OCD Only						
Received by:	Date:					

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	Closure Report Attachment Checklist: Each of the following items must be included in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office m	ust be notified 2 days prior to final sampling)				
☐ Description of remediation activities						
u u						
I hereby certify that the information given above is true and complete and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the OC	release notification of the contamination of the co	ons and perform corrective actions for releases which the OCD does not relieve the operator of liability tion that pose a threat to groundwater, surface water, is not relieve the operator of responsibility for sible party acknowledges they must substantially diprior to the release or their final land use in				
Printed Name: Kyle Littrell	Title:	SH&E Supervisor				
Signature:						
email: Kyle Littrell@xtoenergy.com	Telephone:	432-221-7331				
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by: Bradford Billings	Date:	05/12/2020				
Printed Name: Bradford Billings	Title:	E.Spec.A				

NM OIL CONSERVATION

ARTESIA DISTRICT

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

JAN 09 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit I Copy to appropriate District Office in RECEIVER cordance with 19.15.29 NMAC.

Release Notifica	ation and Corrective A	ction			
DAB1701052774	OPERATOR				
Name of Company: BOPCO, L.P. 200131	Contact: Amy Ruth				
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-732				
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration a	nd Production			
Surface Owner: Federal Mineral Ov	vner: Federal	API No. 30-015-27556			
LOCA	TION OF RELEASE				
	North/South Line Feet from the North 1850	East/West Line County East Eddy			
Latitude 32.45259	05° Longitude <u>-104.054825</u> °	· · · · · ·			
NATU NATU	JRE OF RELEASE				
Type of Release Produced Water	Volume of Release 21 bbls	Volume Recovered 5 bbls			
Source of Release Pinhole in valve	Date and Hour of Occurrence	Date and Hour of Discovery 12/22/2016 10 am			
Was Immediate Notice Given?	If YES, To Whom?				
☐ Yes ☐ No ☒ Not Req					
By Whom? N/A Was a Watercourse Reached?		Date and Hour N/A If YES, Volume Impacting the Watercourse.			
☐ Yes ☒ No	N/A				
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* The body of a check valve developed a pinhole due to corrosion and	I fluids were released to the well locat	ion. The failed check valve was replaced.			
Describe Area Affected and Cleanup Action Taken.* The leak affected 2731 square feet of caliche pad and free standing fluids were immediately recovered.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature Printed Name: Amy C. Ruth		Approved by Environmental Specialist Symmetry			
Title: EHS Environmental Supervisor	Approval Date: 11017	Expiration Date: N/A			
E-mail Address: ACRuth@basspet.com	Conditions of Approyal:	Attached			
Date: 1/9/2017 Phone: 432-661-0571	Suat	tached Attached L			
Attach Additional Sheets If Necessary	Six	200-4066			

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-4066
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc				OGRID: 5380				
Contact Name: Kyle Littrell				Co	Contact Telephone: (432)-221-7331			
Contact email: Kyle_Littrell@xtoenergy.com				In	Incident #:			
Contact mail	ling address	522 W. Mermod,	Suite 704 Carlsba	d, NM	88220			
Location of Release Source Latitude 32.452595 Longitude -104.054825 (NAD 83 in decimal degrees to 5 decimal places)								
C' N	AT (1 T 1)	El . OCE 1 1		cimai ac,	-			
		Flats 26 Federal	#1 			Exploration and Production		
Date Release	Discovered	12/22/2016			API# (if app	plicable) 30-015-27556		
Unit Letter	Section	Township	Range		Cour	ntv		
G	26	21S	28E	Eddy		9		
Surface Owner Crude Oil	Surface Owner: State Federal Tribal Private (Name: BLM							
		Volume Release				Volume Recovered (bbls)		
□ Produced	water	Volume Release				Volume Recovered (bbls) 5		
		Is the concentrate produced water	ion of dissolved c >10.000 mg/l?	hloride	in the	☐ Yes ☐ No		
Condensa	te	Volume Release			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)				Volume/Weight Recovered (provide units)				
Cause of Release								
The body of a check valve developed a pinhole due to corrosion and fluids were released to the well location. The failed check valve was replaced. The leak affected approximately 2,731 square feet of caliche pad and free standing fluids were immediately recovered.								

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? N/A
☐ Yes ⊠ No	
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	
<u> </u>	s been secured to protect human health and the environment.
	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices. coverable materials have been removed and managed appropriately.
	above have not been undertaken, explain why:
Day 10 15 20 9 D (4) NIM	AC the recognition must be more common as remodication immediately often discovery of a release. If remodiation
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are r public health or the environm failed to adequately investiga	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have te and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Kyle	Littrell Title: _SH&E Supervisor
Signature:	Date: _8/28/2019
email: Kyle Httrell@xtoe	nergy.com Telephone:432-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?				
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?				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 				
 ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information 				
 ☒ Topographic/Aerial maps ☒ Laboratory data including chain of custody 				

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

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

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 failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature:	Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
Description of remediation activities				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell Title: SH&E Supervisor Date: 8/28/2019 Email: Kyle Littrell@xtoenergy.com Telephone: 432-221-7331				
OCD Only				
Received by: Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: Bradford Billings Date: 05/12/2020				
Printed Name: Bradford Billings Title:E.Spec/A				

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

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR ☐ Initial Report Final Report Name of Company: XTO Energy BOPCO OGRID: 260737 Contact: Kyle Littrell Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No: 432-221-7331 Facility Name: North Indian Flats 26 Federal #1 Facility Type: Exploration and Production Surface Owner: Federal Mineral Owner: Federal API No: 30-015-27556 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County G 26 **21S** 28E 2150 North 1980 Eddy Latitude 32.452295 Longitude -103.054719 NAD83 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Oil 7bbl oil 4bbl oil Source of Release Date and Hour of Occurrence Date and Hour of Discovery Oil tank 7/26/2018, 10:00 AM 7/26/2018, 10:00 AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required N/A By Whom? N/A Date and Hour: N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank. Describe Area Affected and Cleanup Action Taken.* All fluid was contained to earthen berm. Vacuum truck was dispatched and recovered 4bbl standing fluid from berm. An environmental contractor has been retained to assist with remediation efforts. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/of regulations. OIL CONSERVATION DIVISION Signature Approved by Environmental Specialist: Maria Pruett Printed Name: Amy C Approval Date: 08/10/18 Expiration Date: N/A Title: Environmental Coordinator E-mail Address: Amy_Ruth@xtoenergy.com Conditions of Approval: Attached 2RP-4912 8/9/2018 Phone: 575-689-3380

* Attach Additional Sheets If Necessary

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc					OGRID: 5380		
Contact Name: Kyle Littrell					Contact Telephone: (432)-221-7331		
Contact email: Kyle_Littrell@xtoenergy.com				1	Incident #:		
Contact mail	ing address	522 W. Mermod, S	Suite 704 Carlsba	ıd, NM	88220		
Location of Release Source Latitude 32.452295							
Site Name	North Indian	Flats 26 Federal #	# 1		Site Type Exploration and Production		
Date Release	Discovered	7/26/2018			API# (if a	pplicable) 30-015-27556	
Unit Letter Section Township Range G 26 21S 28E Eddy Surface Owner: □ State ▷ Federal □ Tribal □ Private (Name; BL Nature and Volume Released (Select all that apply and attach calculations Volume Released (bbls) 7 □ Produced Water Volume Released (bbls) Is the concentration of dissolved chloride in produced water >10,000 mg/l? □ Condensate Volume Released (bbls) □ Natural Gas Volume Released (Mcf) □ Other (describe) Volume/Weight Released (provide units)				BLM ions or specific in the			
Cause of Release The crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank.							

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No
☐ Yes ⊠ No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A
Initial Response
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ 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.
If all the actions described above have <u>not</u> been undertaken, explain why:
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
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.
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
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
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
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
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
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:
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:
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:
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:
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:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ 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
A44-1	41-1

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

Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.	
🔀 Field data	
☐ Data table of soil contaminant concentration data	
Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs	
Photographs including date and GIS information	
Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

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 failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger office on the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: 19 Juliah	Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following it	tems must be incli	ided in the closure report.									
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC										
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)											
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)											
Description of remediation activities											
I hereby certify that the information given above is true and complet and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the Office of Name: Kyle Littrell Signature: Kyle Littrell Signature: Kyle Littrell@xtoenergy.com	n release notification of the release notification of the responsibility of the responsibility of the responsibility of the responsibility of the rectangular of the	ons and perform corrective actions for releases which the OCD does not relieve the operator of liability ion that pose a threat to groundwater, surface water, is not relieve the operator of responsibility for sible party acknowledges they must substantially diprior to the release or their final land use in									
OCD Only											
Received by:	Date:										
Closure approval by the OCD does not relieve the responsible party of remediate contamination that poses a threat to groundwater, surface was party of compliance with any other federal, state, or local laws and/o	ater, human health	heir operations have failed to adequately investigate and a, or the environment nor does not relieve the responsible									
Closure Approved by: Bradford Billings	Date:	05/12/2020									
Printed Name: Bradford Billings	Title:	05/12/2020 E.Spec.A									





Remediation Closure Report



North Indian Flats 26 Federal #1 Eddy County, New Mexico

Section 26, Township 21 South, Range 28 East Latitude 32.452530° North, Longitude 104.054850 ° West

May 29, 2019

Prepared for:

XTO Environmental Management

Regulatory Distribution:

Bradford Billings- NMOCD <u>bradford.billings@state.nm.us</u>
Mike Bratcher- NMOCD <u>mike.bratcher@state.nm.us</u>

Jim Amos-BLM jamos@blm.gov

Crystal Weaver- BLM <u>caweaver@blm.gov</u>
Deborah McKinney- BLM <u>dmckinne@blm.gov</u>





TABLE OF CONTENTS

Section	<u>Page</u>
Introduction	3
Site Specific Information:	4
Aerial Reference	4
Photo Illustrations of Historical Events	5
Site Preparation	6
Summarized Project Activities	6
Soil Sampling Procedures for Laboratory Analysis	6
Soil Analytical Methods	7
Goals for Soil Characterization	7
Achievement Goals for Soil Remediation	7
Summary of Soil Remediation Activities	8
Sampling Release Tables	9
Aerial of Location and Sampling Plots	10
Appendices	11
Appendix A – Certificate of Laboratory Analysis Release Report #619079 3/25/19	11
Appendix B – Certificate of Laboratory Analysis Report #619714 4/3/19 (2-Retakes)	11
Appendix C- Certificate of Laboratory Analysis Report #624909 5/16/19	11
Appendix D – NMOCD C-141 Notifications	11
Closure Photo Gallery	11
Final Aerial View of Location	12
Post Remedial Closure Summary	12





Introduction

The purpose of this Remediation Closure Report is to provide an outline of the procedures utilized by HydroChemPSC to perform restoration of areas contaminated by the hydrocarbon releases at the **XTO-North Indian Flats 26 FED #1 site**.

The Operator XTO Energy reported releases on various dates utilizing OCD reporting form C-141. References to each incident is identified within the report. This report details the requirements and actions taken to sample and remediate for hydrocarbon releases reported and ensure the impacted soils/property meet the no further action for releasing as defined by the New Mexico Oil Conservation Division (NMOCD). The information was used as a general guide for all federal, state and fee lands when remediating contaminants resulting from leaks, spills and releases of oilfield wastes or products.

The NMOCD requires that corrective actions be taken for leaks, spills or releases of any material which has a reasonable probability or be detrimental to public health, fresh waters, animal or plant life, or property or unreasonably interfere with the public welfare or use of the property. The guidelines were followed to provide direction for remediation of soils contaminated. Specific constituents and/or requirements for soil and ground water analysis and/or remediation may vary depending on site specific conditions. Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release.

*Note: None of the fluid release events depicted in the report traversed, leached or flowed offsite exiting the original well site lease location.





Site Specific Information:

- ➤ Company-XTO Energy (former Bopco, LP site)
- > Field-North Indian Flats
- ➤ Lease- 26 Federal #1
- ➤ County-**Eddy**
- > API No.- 30-015-27556
- > Section- 26
- > Township- 21S
- > Surface/Mineral Owner- Federal
- Lat/Long- 32.452595 N -104.054825
- > OCD Notifications #- 2RP-2523/2RP-2759/2RP-4066/2RP-4912
- \triangleright Date of Loss Occurrences- 9/24/14 1/12/15 12/22/16 7/26/18
- ➤ Reported Type of Released-**Crude/Produced Water**
- ➤ Total Fluid Loss Volume Reported-45 Barrels (communitive total)
- ➤ Recovered Volume Reported-18- barrels (communitive total)
- ➤ Contaminated Soil Recovered Upon Completion -550 cubic yards

Note: Multiple references related to spill occurrences reported to NMOCD on provided C-141 notifications.

Aerial Reference







Photo Illustrations of Historical Events











Site Preparation

Field operations office and break areas were set up in an area where field activities could be monitored and remediation procedures could be positively controlled. A waste staging area was setup and established for waste preparation, loading and transportation to disposal. Labor and Equipment necessary to perform the remediation project was assembled and mobilized following the authorization to proceed. Equipment was delivered to the site and set up for field operations. The specific layout of equipment was determined in the field after equipment mobilization to the site.

Summarized Project Activities

- Performed Pre-Project Meeting.
- ➤ Notification with XTO Energy prior to executing.
- > Identification of Pipe Lines prior to executing project. (One Call Notification).
- > Site Preparation.
- > Excavation/Remediation of Contaminated Soils.
- Final sampling notification to NMOCD and BLM.
- > Transportation of Contaminated Soils.
- > Post-Project Sampling Analysis.
- > Photo Gallery Recap.

Soil Sampling Procedures for Laboratory Analysis

All soil sampling for laboratory analysis was conducted according to NMOCD approved industry standards or other NMOCD-approved procedures. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect samples in clean, air-tight glass jars supplied by the laboratory which will conduct the analysis.
- > Samples were labeled with a unique code for each.
- > Samples were packed cold or on ice.
- > Promptly shipped to the lab for analysis following chain of custody procedures.
- ➤ All samples were analyzed within the holding times for the laboratory analytical methods specified by EPA.





Soil Analytical Methods

All soil samples were analyzed using EPA methods, or by other NMOCD approved methods. Below are laboratory analytical methods accepted by NMOCD for analysis of soil samples analyzed for petroleum related constituents.

- Chlorides- EPA 300 Method
- ❖ Benzene, toluene, ethylbenzene and xylene -EPA Method 602/8020.
- ❖ Total Petroleum Hydrocarbons -EPA Method 418.1, or; EPA Method Modified 8015.

Goals for Soil Characterization

- 1) Determination of the lateral and vertical extents along with the magnitude of soil contamination.
- 2) Determine if groundwater or surface waters have been impacted.
- 3) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). Vertical & Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination was characterized to the following release concentrations:
 - ❖ Benzene <10 mg/kg.
 - ❖ Total BTEX <50 mg/kg.
 - **❖** TPH <100 mg/kg.
 - ❖ Chlorides< 600 mg/kg.

Achievement Goals for Soil Remediation

When RCRA exempt or RCRA nonhazardous petroleum contaminated soil requires remediation, it will be remediated and managed according to the criteria described below or by other NMOCD approved procedures which will remove, treat, or isolate contaminants in order to protect fresh waters, public health and the environment. Highly contaminated/saturated soils and unsaturated contaminated soils exceeding the standards described should be either:

- 1 Excavated from the ground until a representative sample from the walls and bottom of the excavation is below the contaminant specific remediation level or an alternate approved remediation level.
- 2 Excavated to the required depth and horizontal extent practicable. Upon reaching this limit samples will be taken from the walls and bottom of the excavation to determine the remaining levels of soil contaminants. Further excavation may be required.
- 3 Treatment of soil in place was not be performed for remediation or reclamation projects.
- 4 All contaminated soils were transported offsite to an approved disposal facility and documented.





Summary of Soil Remediation Activities

Following initial assessment of the site on February 6, 2019. Heavy equipment was mobilized in on March 11, 2019 and used to excavate all contaminated soils; the project was worked in tandem as being a Site Abandonment and Reclamation for release project also. Soils in the impacted areas were excavated from 1" to 36" depths in various areas. During vertical and horizontal excavation, a previous installed (20) mil polyurethane liner was located at a depth of ~3'. The reference area is identified on the included site excavation mapping. The liner was not disturbed or compromised during the project execution. On March 23, 2019 the NMOCD was notified of a final sampling event being performed after the excavation of the contaminated areas. On 3/25/19 a total of 12 samples was extracted for laboratory analysis; the sampling event references areas depicted in the illustrated mapping included within the report referencing OCD Notification 2RP-4912. Final laboratory analytical results for TPH/BTEX and EPA 300 Chloride contents indicated all samples were below the regulatory action levels established by the NMOCD. Note phase 1 referenced sampling release table below within the report.

On May 14, 2019 the NMOCD was notified of a final sampling event referencing OCD Notifications **2RP-2523/2RP-2759** and **2RP-4066**. These historical spill events occurred previously on 9/24/14 – 1/12/15 and 12/22/16. Release sampling was performed on May 16, 2019 depicted in the illustrated mapping included. Final analytical results referencing 12 additional samples extracted were all below the NMOCD regulatory action levels. **Note phase 2 referenced sampling release table below within the report.**

Grab and Composite samples from the summary above were collected from the remediated areas in reference to the sampling event and analyzed at a laboratory for Total Petroleum Hydrocarbons (TPH), Chlorides, BTEX and Benzene using NMOCD approved methods. A final level of acceptance for release was achieved through laboratory analysis. All original sampling data reference has been submitted.

Volume of contaminated soil excavated for the project in its entirety was ~550 cubic yards. Impacted soil was temporarily stockpiled prior to load-out then transported offsite from the location to an approved disposal site (**R-360 Environmental**). While derived methods were used in the practical course of remediation, release criteria for the site were based on field data for release by confirmed laboratory measurements.





Sampling Release Tables

Phase #1- Reference 2RP-4912

Analysis Certificate #619079 3/25/19 Analysis Certificate #619714 3/29/19 (2-retakes)

Analysis Certific	METHOD: EPA 8021B METHOD: 8015M EPA 300 Comm													1 _
					METI	HOD: EPA 8	3021B		ME	THOD: 801	.5M	TOTAL TO	TOTAL TPH	
SAMPLE LOCATIONS	SAMPLE DEPTH	SAMPLE DATE	SOIL STAUTS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	EHTYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Lg)	TOTAL BETEX (mg/Kg)	GRO C6-C12 (mg/Kg)	DRO C12-C28 (mg/Kg)	MRO C28-C35 (mg/Kg)	C6-C35 (mg/Kg)	CHLORIDE	
001-North Bottom-Grab	0-3'	3/25/2019	Dry	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	1040	313	13	<mark>50</mark> <4.95	Note retake
002-Center Bottom-Grab	0-3'	3/25/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<4.95	
003-South Bottom-Grab	0-3'	3/25/2019	Dry	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	13	
004-East Wall-Grab	0-3'	3/25/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	8.72	
005-Bottom-Composite	0-3'	3/25/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	21.9	<14.9	2	1.9 96.1	
006-North Wall-Composite	0-3'	3/25/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	68.9	16.5	8	5.4 15	
007-South Wall-Composite	0-3'	3/25/2019	Dry	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	144	32.2	1	<mark>.76</mark> 23.1	Note retake
008-West Wall-Composite	0-3'	3/25/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<14.9	28.2	<14.9	2	3.2 35	
009-East Wall-Composite	0-3'	3/25/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	36.1	<15.0	3	5.79	
0010-E1 (release retake)	0-3'	3/25/2019	Dry	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<4.98	
011-E2 (release retake)	0-3'	3/25/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<5.00	
012-E3 (release retake)	0-3'	3/25/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<5.00	
001-N Bottom Grab-retake	0-3'	3/29/2019	Dry						17	<14.9	<14.9		17	Retake-001
002-S Wall Grab-retake	0-3'	3/29/2019	Dry						23.3	<14.9	<14.9	2	3.3	Retake-007
NMOCD Criteria				<10mg/kg				<50mg/kg				<100mg/l	g <600mg/kg	

Phase #2- Reference 2RP-2523/2RP-2759/2RP-4066

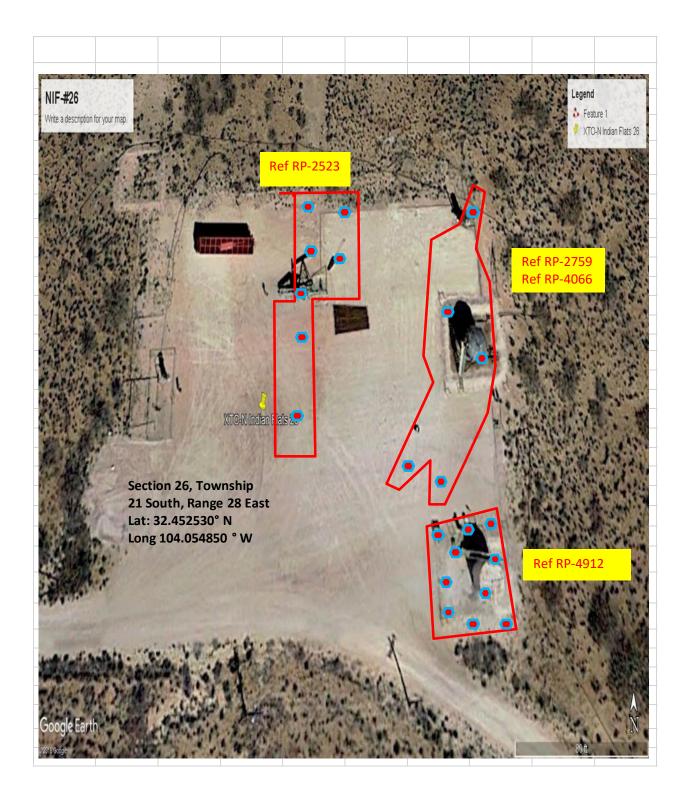
Analysis Certificate #624909 5/16/19

	CANADIT	CAMPIE	COII		METHOD: EPA 8021B					THOD: 801	5M	TOTAL TPH	EPA 300	Comments
SAMPLE LOCATIONS	SAMPLE	SAMPLE	SOIL	BENZENE	TOLUENE	EHTYL-	TOTAL	TOTAL	GRO	DRO	MRO	C6-C35	CHLORIDE	
	DEPTH	DATE	STAUTS	(mg/Kg)	(mg/Kg)	BENZENE	XYLENES	BETEX	C6-C12	C12-C28	C28-C35	(mg/Kg)	(mg/Kg)	
PJ1-North Bottom-Grab	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	7.44	
PJ2-East Bottom-Grab	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	4.96	
PJ3-South Bottom-Grab	0-3'	5/16/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	5.04	
PJ4-West Wall-Grab	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	4.98	
PJ5-East Wall-Composite	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	10.7	
PJ6-South Wall-Composite	0-3'	5/16/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	9.68	
PJ7-North Wall-Composite	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<14.9	<14.9	<14.9	<14.9	4.99	
S1-North Area-Composite	0-3'	5/16/2019	Dry	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	7.72	
S2-East Center Area	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	5.01	
S3-South Center	0-3'	5/16/2019	Dry	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	5.02	
S4- S.E Leg	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	4.99	
S5- S.W Leg	0-3'	5/16/2019	Dry	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	5.03	•
NMOCD Criteria				<10mg/kg				<50mg/kg				<100mg/kg	<600mg/kg	





Aerial of Location and Sampling Plots







Appendices

Appendix A – Certificate of Laboratory Analysis Release Report #619079 3/25/19

Appendix B – Certificate of Laboratory Analysis Report #619714 4/3/19 (2-Retakes)

Appendix C- Certificate of Laboratory Analysis Report #624909 5/16/19

Appendix D – NMOCD C-141 Notifications

❖ Attachments of the original appendix documents has been included and submitted with the final closure request.











Final Aerial View of Location





Post Remedial Closure Summary

Following Remediation, this final summary report was prepared to document the project in its entirety for **XTO Energy** to submit a no further action release request to the New Mexico Oil Conservation Division (NMOCD). Additional submittal may be requested by the Bureau of Land Management (BLM). This final closure report documents the execution of the remedial services performed. An aerial map illustrates the area affected by the spill occurrence; locations of remedial sampling to delineate the impacts, and sampling locations to confirm successful remediation. Areas of contamination identified in the analytical process were vertically and horizontally delineated. Post-remediation sampling data indicates the site meets compliance with NMOCD standards and confirms no remaining soils exceeds elevated contamination levels.

Note: No onsite bioremediation or other methods i.e. soil blending/mixing was performed on the project. Contaminated soil was transported offsite to an approved permitted landfill for disposal. Topsoil media was dressed, and dozer bladed for resurfacing of the site upon completion.

This closure report includes a summary of the remediation performed, onsite activities, analytical data and pertinent project documentation. Additional Abandoned and Reclamation services was performed to return the site back to its original state. Original project file reports/copies and backups have been submitted to XTO Energy Environmental Management.

HydroChemPSC recommends XTO Energy provide the NMOCD District Office and the BLM a copy of this Remediation Summary & Site Closure Request. HydroChemPSC on behalf of XTO Energy request closure of the RP files.





Certificate of Analysis Summary 593503

PSC Industrial Outsourcing LP, Gibson, LA

Project Name: XTO NFI #26



Project Id: 217.1.711.0003.J0032

Contact: Perry Verret

Project Location:

Date Received in Lab: Wed Jul-25-18 11:00 am

Report Date: 26-JUL-18 **Project Manager:** Holly Taylor

	Lab Id:	593503-0	01	593503-0	02	593503-0	03	593503-0	04	593503-0	05	593503-0	06
Analysis Requested	Field Id:	A-1		B-1		C-1		D-1		E-1		F-1	
Anaiysis Kequesiea	Depth:	0-6		0-6		0-6		0-6		0-6		0-6	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-24-18 1	1:00	Jul-24-18 1	1:10	Jul-24-18 1	1:20	Jul-24-18 1	1:30	Jul-24-18 1	1:40	Jul-24-18 1	1:50
Chloride by EPA 300	Extracted:	Jul-25-18 1	6:30	Jul-25-18 1	6:30	Jul-25-18 1	6:30	Jul-25-18 1	6:30	Jul-25-18 1	6:30	Jul-25-18 1	6:30
	Analyzed:	Jul-25-18 1	9:08	Jul-25-18 19	9:24	Jul-25-18 1	9:29	Jul-25-18 1	9:35	Jul-25-18 1	9:40	Jul-25-18 1	9:56
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		< 5.00	5.00	103	4.97	66.8	5.00	182	4.95	46.2	4.95	50.1	4.95

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

Holly Taylor



Certificate of Analysis Summary 593503

PSC Industrial Outsourcing LP, Gibson, LA

Project Name: XTO NFI #26



Project Id: 217.1.711.0003.J0032

Contact: Perry Verret

Project Location:

Date Received in Lab: Wed Jul-25-18 11:00 am

Report Date: 26-JUL-18 **Project Manager:** Holly Taylor

	Lab Id:	593503-00	07	593503-0	08	593503-0	09	593503-0	10		
Analysis Requested	Field Id:	G-1		H-1		I-1		BG-1			
Analysis Requesieu	Depth:	0-6		0-6		0-6		0-6			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jul-24-18 12	2:00	Jul-24-18 1	2:10	Jul-24-18 1	2:20	Jul-24-18 1	2:40		
Chloride by EPA 300	Extracted:	Jul-25-18 10	6:30	Jul-25-18 1	6:30	Jul-25-18 10	5:30	Jul-25-18 10	5:30		
	Analyzed:	Jul-25-18 20	0:02	Jul-25-18 2	0:07	Jul-25-18 20	0:12	Jul-25-18 20	0:18		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<4.96	4.96	50.8	4.97	14.6	4.95	<4.96	4.96		

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

Holly Taylor
Project Manager

Analytical Report 593503

for PSC Industrial Outsourcing LP

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)





26-JUL-18

Project Manager: Perry Verret
PSC Industrial Outsourcing LP
756 Geraldine Rd

Gibson, LA 70356

Reference: XENCO Report No(s): 593503

XTO NFI #26
Project Address:

Perry Verret:

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) 593503. 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. 593503 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,

Holly Taylor

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 593503



PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
A-1	S	07-24-18 11:00	0 - 6	593503-001
B-1	S	07-24-18 11:10	0 - 6	593503-002
C-1	S	07-24-18 11:20	0 - 6	593503-003
D-1	S	07-24-18 11:30	0 - 6	593503-004
E-1	S	07-24-18 11:40	0 - 6	593503-005
F-1	S	07-24-18 11:50	0 - 6	593503-006
G-1	S	07-24-18 12:00	0 - 6	593503-007
H-1	S	07-24-18 12:10	0 - 6	593503-008
I-1	S	07-24-18 12:20	0 - 6	593503-009
BG-1	S	07-24-18 12:40	0 - 6	593503-010



CASE NARRATIVE

Client Name: PSC Industrial Outsourcing LP Project Name: XTO NFI #26

 Project ID:
 217.1.711.0003.J0032
 Report Date:
 26-JUL-18

 Work Order Number(s):
 593503
 Date Received:
 07/25/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: A-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-001 Date Collected: 07.24.18 11.00 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	07.25.18 19.08	U	1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: Matrix: Date Received:07.25.18 11.00 **B-1** Soil

Lab Sample Id: 593503-002 Date Collected: 07.24.18 11.10 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Tech: SCMSCM Analyst: 07.25.18 16.30 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	4.97	mg/kg	07.25.18 19.24		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: C-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-003 Date Collected: 07.24.18 11.20 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	66.8	5.00	mg/kg	07.25.18 19.29		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: D-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-004 Date Collected: 07.24.18 11.30 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	182	4.95	mg/kg	07.25.18 19.35		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: E-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-005 Date Collected: 07.24.18 11.40 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.2	4.95	mg/kg	07.25.18 19.40		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: F-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-006 Date Collected: 07.24.18 11.50 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.1	4.95	mg/kg	07.25.18 19.56		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: G-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-007 Date Collected: 07.24.18 12.00 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	07.25.18 20.02	U	1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: H-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-008 Date Collected: 07.24.18 12.10 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.8	4.97	mg/kg	07.25.18 20.07		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: I-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-009 Date Collected: 07.24.18 12.20 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.95	mg/kg	07.25.18 20.12		1





PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id: BG-1 Matrix: Soil Date Received:07.25.18 11.00

Lab Sample Id: 593503-010 Date Collected: 07.24.18 12.40 Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SCM Date Prep: 07.25.18 16.30 Basis: Wet Weight

Seq Number: 3057784

SCM

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	07.25.18 20.18	U	1



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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



Seq Number:

QC Summary 593503

PSC Industrial Outsourcing LP

XTO NFI #26

Analytical Method: Chloride by EPA 300

Prep Method: 3057784 Matrix: Solid Date Prep:

LCS Sample Id: 7659096-1-BKS LCSD Sample Id: 7659096-1-BSD MB Sample Id: 7659096-1-BLK

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date %Rec Result

Chloride 90-110 20 07.25.18 18:57 <4.99 250 256 102 252 101 2 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: Seq Number: 3057784 Matrix: Soil Date Prep: 07.25.18

Parent Sample Id: 593475-002 MS Sample Id: 593475-002 S MSD Sample Id: 593475-002 SD

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

Chloride < 5.02 251 267 106 257 102 90-110 4 20 mg/kg 07.25.18 20:29

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3057784 Matrix: Soil Date Prep: 07.25.18

MS Sample Id: 593503-001 S MSD Sample Id: 593503-001 SD Parent Sample Id: 593503-001

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

07.25.18 19:13 Chloride < 5.00 250 265 106 262 105 90-110 20 mg/kg

E300P

E300P

07.25.18



Project Manager:

Chain of Custody

Work Order No: 217.1711.0003.00038

www.xenco.com

Page

Work Order Comments

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Pasō;TX (915)585-3443 Lubbock,TX (806)794-1296

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Bill to: (if different)

-	Sampler's Name:
AN 1217-1535	Turn Around ANALY Bouting ANALY Bouting ANALY
Control Cont	Number: Number
Constant) Sample Congression Constant Congression Constant Congression Constant Congression Constant Congression Constant Congression Constant Congression Congression Constant Congression	Number: Number: Number: Number: Name: Name
Name	Number: Number
Number:	Number: Name: 170 MFL+36 Email: Pay, Varced & Hydrachum PSC. (
Manage	Number: 183 221-0644 Email: 1894, 1850 & Hydrachan 136. (Number: 183 221-0644 Email: 1894, 1860 & Hydrachan 136. (ANALY Number: 183 221-0644 Email: 1894, 1896 & Hydrachan 136. (ANALY Number: 183 221-0644 Email: 1894, 1896 & Hydrachan 136. (ANALY Number: 183 221-0644 Email: 1894, 1896 & Hydrachan 136. (ANALY Number: 183 221-0644 Email: 1894, 1896 & Hydrachan 136. (ANALY Number: 183 221-0644 Email: 1894, 1896 & Hydrachan 136. (ANALY Number: 184 284 & Hydrachan 1
TO	ANALY ATO NET 16 Bouting ANALY
Routine AN 1217-1535 Rust: 24ff. ANN 1217-1535 Rust: 24ff. ANN 1217-1535 Rust: 24ff. Bus Date	ar: Routing
AN 1217-1535 Rust: 24/HA. 349-14-9-7-124-12-1535 Rust: 24/HA. 349-14-9-7-124-12-15-35 Rust: 24/HA. 349-14-9-12-15-35 Rust: 24/HA. 349-14-9-12-15-35 Rust: 24/HA. 349-14-9-12-15-35 Rust: 24/HA. 349-14-9-15-35 Rust: 24/HA. 349-14-9-14-9-15-35 Rust: 24/HA. 349-14-9-14-9-15-35 Rust: 24/HA. 349-14-9-15-35 Rust: 24/	
Temp Blank: Ves No Wellos: Ves No Ves Ves No Ves Ves No No Ves V	
Temp Blank: Yes No Welloe: Yes No Temp Blank: Yes No Welloe: Yes No Yes No NA Correction Fador: Of Yes No No NA Correction Fador: Of Yes No NA Sampled Sampled Sampled Depth Sampled Sampled Continues: Of Yes No NA Sampled Sampled Continues: Of Yes No NA Sampled Sampled Continues: Of Yes No NA Sample	LAN 1217-1535 Rush:
Temp Blank: Yes No Wellos: Yes No Thermoneller ID Yes No NA Total Containers: Yes No NA Total Containe	Bagan 1/2- 4/12 -11:11
Tomp Blank Yes No Wet (os: Yes No No No No No No No N	ream Venus / Lavid Woods
Inemp Blank, Yes No Wet los: Yes No Na	
Thermometer ID	Temp Blank: Yes No Wet Ice: Yes No
Yes No No No No No No No No	
Yes No N/A Correction Eactor: Co Co Co Co Co Co Co C	ス・つ Thermometer ID ee
Yes No N/A Correction Factor:	Vos No Vo
Yes No N/A	Yes No
Ves No N/A Total Containers: O	Ves No N/A Correction Easter 7
Yes No N/A	C () The contraction ()
Castion Matrix Sampled Sampled Depth E C	Yes No N/A Total Containers: '
9 Sidions	er
g Sidns	Matrix Date Time Denth B
g Sidns	Sampled Sampled
g Si(7-24-8 1100 0-6 1
Sign Sidons	
Sign Sidons	7-24 1110 6-6 1
Sign Side	7-24 1195 5-1 1
g Sign	1 9-0 0211 1.31
g Si(Sign	724-18 1130 0-6
g Si(Sign	1 00:11 115
% Sign	2 /270
g Sid	7 7-24 1/50
g Sid	- S 724 12 00 0-6 1
g Sid	
g Sid	> 724 1210 6-6 1
g Sid	1720 0-6 1
g Sides Side	7 24 21 112 2
g Sid	1 7.0 01 21 121 /
g Sign (Sign	200.8 / 6020: 8BCBA 13PPM Tayas 11 AI Sh As Ba Ba B GA Ca Ca Ca Ca
lions ontrol	AND AS BE BE COLOR OF THE POLICY OF THE POLI
(Sign	ICLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu
Signature)	
Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. I
(Signature)	of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be and
Received by: (Signature) Pate/Time Pate/Ti	Try your walling analyze in liese terms with the em
7.74.18 -1800 2 Mal fer 8:74 18 74M/ 525	Received by: (Signature) Date/Time Relinquished
15:36 7.24.18 -13:00 2 Mal fe. 8:24.18/24M6	2) (2-3) months and a second an
1. 81 (Sell) 81. 81. 81. 81. 81. 81. 81. 81. 81. 81.	\(\frac{2}{3}\)
15.26 10 10 10 10 10 10 10 10 10 10 10 10 10	1000/2000
	10 x

Revised Date 051418 Rev. 2018.1



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: PSC Industrial Outsourcing LP

Date/ Time Received: 07/25/2018 11:00:00 AM

Work Order #: 593503

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

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		2.3
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes
#11 Container label(s) legible and intact?	?	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	n the refrigerator
Checklist completed by: Checklist reviewed by:		Date: 07/25/2018

Holly Taylor



Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flats 2b Fed 001



Project Id: XTO-995

Contact: Perry Verret

Project Location:

Date Received in Lab: Wed Mar-27-19 11:50 am

Report Date: 29-MAR-19

Project Manager: Brandi Ritcherson

	Lab Id:	619079-0	001	619079-	002	619079-0	003	619079-	004	619079-0	005	619079-0	006
	Field Id:	North Bottor		Center Botto		South Botton		East Wall		Bottom Con		North Wall Co	
Analysis Requested	Depth:	0.3- ft		0.3- f		0.3- ft		0.3- f		0.3- fi	1	0.3- ft	
	1 1	SOIL						SOIL				SOIL	
	Matrix:				SOIL		SOIL			SOIL		~ ~ ~ ~	='
	Sampled:	Mar-25-19	08:05	Mar-25-19	08:35	Mar-25-19	08:40	Mar-25-19	08:30	Mar-25-19	08:25	Mar-25-19	08:20
BTEX by EPA 8021B	Extracted:	Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19 15:00		Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19	15:00
	Analyzed:	Mar-28-19	01:05	Mar-27-19	23:50	Mar-28-19	00:09	Mar-28-19	00:28	Mar-28-19	00:47	Mar-28-19	02:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00402	0.00402	< 0.00400	0.00400	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00401	0.00401	< 0.00399	0.00399
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Mar-27-19	15:40	Mar-27-19	15:40	Mar-27-19 15:40 Mar-27-19 15:40		15:40	Mar-27-19 15:40		Mar-27-19 16:00		
	Analyzed:	Mar-27-19	21:42	Mar-27-19	21:48	Mar-28-19	08:44	Mar-27-19 22:02		Mar-27-19 22:08		Mar-27-19	22:48
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.95	4.95	<4.95	4.95	13.0	4.95	8.72	4.95	96.1	4.95	15.0	5.00
TPH By SW8015 Mod	Extracted:	Mar-28-19	07:00	Mar-28-19	07:00	Mar-28-19	07:00	Mar-28-19	07:00	Mar-28-19	07:00	Mar-28-19	07:00
	Analyzed:	Mar-28-19	08:44	Mar-28-19	09:03	Mar-28-19	10:00	Mar-28-19	10:19	Mar-28-19	10:38	Mar-28-19	10:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)		1040	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	21.9	14.9	68.9	15.0
Motor Oil Range Hydrocarbons (MRO)		313	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	<14.9	14.9	16.5	15.0
Total TPH		1350	15.0	<15.0	15.0	<15.0	15.0	<14.9	14.9	21.9	14.9	85.4	15.0

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

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

Brand Retinson

Brandi Ritcherson Project Manager



Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flats 2b Fed 001



Project Id: XTO-995
Contact: Perry Verret

Project Location:

Date Received in Lab: Wed Mar-27-19 11:50 am

Report Date: 29-MAR-19

Project Manager: Brandi Ritcherson

Lab		619079-	007	619079-	800	619079-0	009	619079-0	010	619079-	011	619079-012	
Analysis Requested	Field Id:	South Wall Co	omposite	West Wall Co	mposite	East Wall Compo	site (For Re	E1 (Release l	Retake)	E2 (Release l	Retake)	E3 (Release l	Retake)
Anaiysis Kequesieu	Depth:	0.3- f	t	0.3- f	t	0.3- ft	i	0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL	.	SOIL	,	SOIL	,	SOIL	,	SOIL		SOIL	
	Sampled:	Mar-25-19	08:10	Mar-25-19	08:00	Mar-25-19 08:15		Mar-25-19	09:00	Mar-25-19	08:55	Mar-25-19	08:50
BTEX by EPA 8021B	Extracted:	Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19	15:00	Mar-27-19	15:00
	Analyzed:	Mar-28-19	02:39	Mar-28-19	02:58	Mar-28-19	03:17	Mar-28-19	03:36	Mar-28-19	03:55	Mar-28-19	04:14
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Toluene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Ethylbenzene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
m,p-Xylenes		< 0.00402	0.00402	< 0.00400	0.00400	< 0.00398	0.00398	< 0.00403	0.00403	< 0.00398	0.00398	< 0.00399	0.00399
o-Xylene		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Total Xylenes		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Total BTEX		< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Mar-27-19	16:00	Mar-27-19	16:00	Mar-27-19 16:00 Mar-27-19 16:00		16:00	Mar-27-19 16:00		Mar-27-19 16:00		
	Analyzed:	Mar-27-19	23:22	Mar-27-19	23:28	Mar-27-19	23:35	Mar-27-19 23:41		Mar-28-19 00:01		Mar-28-19	00:08
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		23.1	5.00	35.0	4.97	5.79	4.95	<4.98	4.98	< 5.00	5.00	< 5.00	5.00
TPH By SW8015 Mod	Extracted:	Mar-28-19	07:00	Mar-27-19	17:00	Mar-27-19	17:00	Mar-27-19	17:00	Mar-27-19	17:00	Mar-27-19	12:00
	Analyzed:	Mar-28-19	11:17	Mar-28-19	04:09	Mar-28-19	04:29	Mar-28-19	04:48	Mar-28-19	05:07	Mar-27-19	20:13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		144	15.0	28.2	14.9	36.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		32.2	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		176	15.0	28.2	14.9	36.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

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

Brand Retinson

Brandi Ritcherson Project Manager

Analytical Report 619079

for HydroChemPSC (PSC)

Project Manager: Perry Verret
North Indian Flats 2b Fed 001
XTO-995
29-MAR-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Xenco-Lakeland: Florida (E84098)





29-MAR-19

Project Manager: **Perry Verret HydroChemPSC** (**PSC**)
PO Box 1529 Amelia, La 70340
Morgan City, LA

Reference: XENCO Report No(s): 619079

North Indian Flats 2b Fed 001

Project Address:

Perry Verret:

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) 619079. 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. 619079 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,

Brandi Ritcherson

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 619079



HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Bottom Grab	S	03-25-19 08:05	0.3 ft	619079-001
Center Bottom Grab	S	03-25-19 08:35	0.3 ft	619079-002
South Bottom Grab	S	03-25-19 08:40	0.3 ft	619079-003
East Wall Grab	S	03-25-19 08:30	0.3 ft	619079-004
Bottom Composite	S	03-25-19 08:25	0.3 ft	619079-005
North Wall Composite	S	03-25-19 08:20	0.3 ft	619079-006
South Wall Composite	S	03-25-19 08:10	0.3 ft	619079-007
West Wall Composite	S	03-25-19 08:00	0.3 ft	619079-008
East Wall Composite (For Release)	S	03-25-19 08:15	0.3 ft	619079-009
E1 (Release Retake)	S	03-25-19 09:00	0.3 ft	619079-010
E2 (Release Retake)	S	03-25-19 08:55	0.3 ft	619079-011
E3 (Release Retake)	S	03-25-19 08:50	0.3 ft	619079-012

XENCO

CASE NARRATIVE

Client Name: HydroChemPSC (PSC)
Project Name: North Indian Flats 2b Fed 001

Project ID: XTO-995 Report Date: 29-MAR-19 Work Order Number(s): 619079 Date Received: 03/27/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3083682 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 619079-005.





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: North Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-001 Date Collected: 03.25.19 08.05 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: SPC Date Prep: 03.27.19 15.40 Basis: Wet Weight

Seq Number: 3083706

CHE

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4 95	mo/ko	03 27 19 21 42	II	1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 08.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	1040	15.0		mg/kg	03.28.19 08.44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	313	15.0		mg/kg	03.28.19 08.44		1
Total TPH	PHC635	1350	15.0		mg/kg	03.28.19 08.44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	03.28.19 08.44		
o-Terphenyl		84-15-1	105	%	70-135	03.28.19 08.44		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: North Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-001 Date Collected: 03.25.19 08.05 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.28.19 01.05	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.28.19 01.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	03.28.19 01.05		
1,4-Difluorobenzene		540-36-3	111	%	70-130	03.28.19 01.05		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: Center Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-002 Date Collected: 03.25.19 08.35 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 03.27.19 15.40 Basis: Wet Weight

Seq Number: 3083706

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	03.27.19 21.48	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 09.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.28.19 09.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.28.19 09.03	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.28.19 09.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-135	03.28.19 09.03		
o-Terphenyl		84-15-1	94	%	70-135	03.28.19 09.03		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: Center Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-002 Date Collected: 03.25.19 08.35 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	03.27.19 23.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.27.19 23.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	123	%	70-130	03.27.19 23.50		
1,4-Difluorobenzene		540-36-3	116	%	70-130	03.27.19 23.50		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: South Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-003 Date Collected: 03.25.19 08.40 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 03.27.19 15.40 Basis: Wet Weight

Seq Number: 3083706

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 13.0
 4.95
 mg/kg
 03.28.19 08.44
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 10.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.28.19 10.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.28.19 10.00	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.28.19 10.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	03.28.19 10.00		
o-Terphenyl		84-15-1	91	%	70-135	03.28.19 10.00		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: South Bottom Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-003 Date Collected: 03.25.19 08.40 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.28.19 00.09	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.28.19 00.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	03.28.19 00.09		
4-Bromofluorobenzene		460-00-4	122	%	70-130	03.28.19 00.09		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: East Wall Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-004 Date Collected: 03.25.19 08.30 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 03.27.19 15.40 Basis: Wet Weight

Seq Number: 3083706

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 8.72
 4.95
 mg/kg
 03.27.19 22.02
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.28.19 10.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	03.28.19 10.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	03.28.19 10.19	U	1
Total TPH	PHC635	<14.9	14.9		mg/kg	03.28.19 10.19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	03.28.19 10.19		
o-Terphenyl		84-15-1	95	%	70-135	03.28.19 10.19		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: East Wall Grab Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-004 Date Collected: 03.25.19 08.30 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.28.19 00.28	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.28.19 00.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	125	%	70-130	03.28.19 00.28		
1,4-Difluorobenzene		540-36-3	115	%	70-130	03.28.19 00.28		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: **Bottom Composite** Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-005 Date Collected: 03.25.19 08.25 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: SPC Date Prep: 03.27.19 15.40 Basis: Wet Weight

Seq Number: 3083706

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 96.1
 4.95
 mg/kg
 03.27.19 22.08
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Seq Number: 3083750

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.28.19 10.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	21.9	14.9		mg/kg	03.28.19 10.38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	03.28.19 10.38	U	1
Total TPH	PHC635	21.9	14.9		mg/kg	03.28.19 10.38		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	03.28.19 10.38		
o-Terphenyl		84-15-1	96	%	70-135	03.28.19 10.38		

% Moisture:





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: **Bottom Composite** Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-005 Date Collected: 03.25.19 08.25 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	03.28.19 00.47	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.28.19 00.47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	147	%	70-130	03.28.19 00.47	**	
1,4-Difluorobenzene		540-36-3	110	%	70-130	03.28.19 00.47		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: North Wall Composite Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-006 Date Collected: 03.25.19 08.20 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 15.0
 5.00
 mg/kg
 03.27.19 22.48
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 10.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	68.9	15.0		mg/kg	03.28.19 10.57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	16.5	15.0		mg/kg	03.28.19 10.57		1
Total TPH	PHC635	85.4	15.0		mg/kg	03.28.19 10.57		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	03.28.19 10.57		
o-Terphenyl		84-15-1	92	%	70-135	03.28.19 10.57		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: North Wall Composite Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-006 Date Collected: 03.25.19 08.20 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

SCM

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.28.19 02.20	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.28.19 02.20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	119	%	70-130	03.28.19 02.20		
1,4-Difluorobenzene		540-36-3	114	%	70-130	03.28.19 02.20		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: South Wall Composite Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-007 Date Collected: 03.25.19 08.10 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 23.1
 5.00
 mg/kg
 03.27.19 23.22
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.28.19 07.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 11.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	144	15.0		mg/kg	03.28.19 11.17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	32.2	15.0		mg/kg	03.28.19 11.17		1
Total TPH	PHC635	176	15.0		mg/kg	03.28.19 11.17		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	03.28.19 11.17		
o-Terphenyl		84-15-1	92	%	70-135	03.28.19 11.17		





Wet Weight

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

03.27.19 15.00

Basis:

Sample Id: **South Wall Composite** Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-007 Date Collected: 03.25.19 08.10 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

> SCM% Moisture: Date Prep:

Seq Number: 3083682

SCM

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	03.28.19 02.39	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	03.28.19 02.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	116	%	70-130	03.28.19 02.39		
4-Bromofluorobenzene		460-00-4	128	%	70-130	03.28.19 02.39		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: West Wall Composite Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-008 Date Collected: 03.25.19 08.00 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 35.0
 4.97
 mg/kg
 03.27.19 23.28
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.27.19 17.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9		mg/kg	03.28.19 04.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	28.2	14.9		mg/kg	03.28.19 04.09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	03.28.19 04.09	U	1
Total TPH	PHC635	28.2	14.9		mg/kg	03.28.19 04.09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-135	03.28.19 04.09		
o-Terphenyl		84-15-1	82	%	70-135	03.28.19 04.09		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: West Wall Composite Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-008 Date Collected: 03.25.19 08.00 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	03.28.19 02.58	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.28.19 02.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	126	%	70-130	03.28.19 02.58		
1,4-Difluorobenzene		540-36-3	114	%	70-130	03.28.19 02.58		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: East Wall Composite (For Release) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-009 Date Collected: 03.25.19 08.15 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 5.79
 4.95
 mg/kg
 03.27.19 23.35
 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.27.19 17.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 04.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	36.1	15.0		mg/kg	03.28.19 04.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.28.19 04.29	U	1
Total TPH	PHC635	36.1	15.0		mg/kg	03.28.19 04.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-135	03.28.19 04.29		
o-Terphenyl		84-15-1	83	%	70-135	03.28.19 04.29		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: East Wall Composite (For Release) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-009 Date Collected: 03.25.19 08.15 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.28.19 03.17	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.28.19 03.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	124	%	70-130	03.28.19 03.17		
1,4-Difluorobenzene		540-36-3	117	%	70-130	03.28.19 03.17		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: E1 (Release Retake) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-010 Date Collected: 03.25.19 09.00 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

CHE % Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

Tech:

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil Chloride 16887-00-6 U 03.27.19 23.41 <4.98 4.98 mg/kg 1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.27.19 17.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 04.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.28.19 04.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.28.19 04.48	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.28.19 04.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-135	03.28.19 04.48		
o-Terphenyl		84-15-1	76	%	70-135	03.28.19 04.48		





Wet Weight

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: E1 (Release Retake) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-010 Date Collected: 03.25.19 09.00 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis:

Seq Number: 3083682

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	03.28.19 03.36	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	03.28.19 03.36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	122	%	70-130	03.28.19 03.36		
1,4-Difluorobenzene		540-36-3	116	%	70-130	03.28.19 03.36		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: E2 (Release Retake) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-011 Date Collected: 03.25.19 08.55 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Analyst: CHE Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

CHE

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	03.28.19 00.01	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 03.27.19 17.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.28.19 05.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.28.19 05.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.28.19 05.07	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.28.19 05.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	80	%	70-135	03.28.19 05.07		
o-Terphenyl		84-15-1	78	%	70-135	03.28.19 05.07		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id: E2 (Release Retake) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-011 Date Collected: 03.25.19 08.55 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

SCM % Moisture:

Analyst: SCM Date Prep: 03.27.19 15.00 Basis: Wet Weight

Seq Number: 3083682

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	03.28.19 03.55	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	03.28.19 03.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	117	%	70-130	03.28.19 03.55		
4-Bromofluorobenzene		460-00-4	123	%	70-130	03.28.19 03.55		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Matrix: Soil Date Received:03.27.19 11.50 Sample Id: E3 (Release Retake)

Lab Sample Id: 619079-012 Date Collected: 03.25.19 08.50 Sample Depth: 0.3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Tech: CHE % Moisture:

CHE Analyst: Date Prep: 03.27.19 16.00 Basis: Wet Weight

Seq Number: 3083707

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.00	5.00	mg/kg	03.28.19 00.08	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

ARM Tech:

ARM Analyst: 03.27.19 12.00 Basis: Wet Weight Date Prep:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.27.19 20.13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0		mg/kg	03.27.19 20.13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	03.27.19 20.13	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	03.27.19 20.13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	83	%	70-135	03.27.19 20.13		
o-Terphenyl		84-15-1	82	%	70-135	03.27.19 20.13		





Wet Weight

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

03.27.19 15.00

Basis:

Sample Id: E3 (Release Retake) Matrix: Soil Date Received:03.27.19 11.50

Lab Sample Id: 619079-012 Date Collected: 03.25.19 08.50 Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

> SCM% Moisture: Date Prep:

Seq Number: 3083682

SCM

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	03.28.19 04.14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	03.28.19 04.14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	126	%	70-130	03.28.19 04.14		
1 4-Difluorobenzene		540-36-3	114	%	70-130	03 28 19 04 14		



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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



QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method:	Chloride by EPA 300		Prep Method:	E300P
Seg Number:	3083706	Matrix: Solid	Date Prep:	03.27.19

MB Sample Id: 7674465-1-BLK LCS Sample Id: 7674465-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	< 0.858	250	256	102	249	100	90-110	3	20	mg/kg	03.27.19 18:55	

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3083707 Matrix: Solid Date Prep: 03.27.19

MB Sample Id: 7674466-1-BLK LCS Sample Id: 7674466-1-BKS LCSD Sample Id: 7674466-1-BSD

MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec Chloride < 0.858 250 255 102 257 103 90-110 20 mg/kg 03.27.19 22:35

Analytical Method: Chloride by EPA 300

 Seq Number:
 3083706
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Date Prep:
 03.27.19
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 00.25
 0

Parent Sample Id: 619078-002 MS Sample Id: 619078-002 S MSD Sample Id: 619078-002 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits **Analysis** Flag **Parameter** Result Date Result %Rec Amount Result %Rec 03.27.19 19:15 Chloride 131 252 377 98 390 103 90-110 3 20 mg/kg

Analytical Method: Chloride by EPA 300

 Seq Number:
 3083706
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Parent Sample Id:
 619078-012
 MS Sample Id:
 619078-012 S
 MSD Sample Id:
 619078-012 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 223 250 474 100 467 98 90-110 20 03.27.19 20:48 1 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method:

 Seq Number:
 3083707
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Parent Sample Id:
 618909-012
 MS Sample Id:
 618909-012 SD
 MSD Sample Id:
 618909-012 SD

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

 Result
 Amount
 Result
 %Rec
 Result
 %Rec
 Result
 %Rec
 Date

 Chloride
 5.22
 248
 265
 105
 245
 97
 90-110
 8
 20
 mg/kg
 03.28.19 00:41

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(\text{C-A}) \, / \, B \\ RPD &= 200* \mid (\text{C-E}) \, / \, (\text{C+E}) \mid \\ [D] &= 100*(\text{C}) \, / \, [\text{B}] \end{split}$$

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

Prep Method:

Prep Method:

E300P

E300P

E300P



QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

E300P

Analytical Method: Chloride by EPA 300 Prep Method:

 Seq Number:
 3083707
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Parent Sample Id:
 619079-006
 MS Sample Id:
 619079-006 S
 MSD Sample Id:
 619079-006 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Result Date Amount %Rec %Rec Result 03.27.19 22:55 Chloride 15.0 250 263 99 266 100 90-110 20 mg/kg

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Seq Number: 3083698 Matrix: Solid Date Prep: 03.27.19

MB Sample Id: 7674533-1-BLK LCS Sample Id: 7674533-1-BKS LCSD Sample Id: 7674533-1-BSD

Spike LCS LCS %RPD RPD Limit Units MB LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) < 8.00 1000 946 95 1010 101 70-135 7 20 mg/kg 03.27.19 12:12 Diesel Range Organics (DRO) 1000 982 98 1050 70-135 7 20 03.27.19 12:12 < 8.13 105 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate %Rec Flag %Rec Flag %Rec Flag Date 03.27.19 12:12 1-Chlorooctane 89 126 129 70-135 % 91 102 109 70-135 03.27.19 12:12 o-Terphenyl %

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Seq Number: 3083699 Matrix: Solid Date Prep: 03.27.19

MB Sample Id: 7674534-1-BLK LCS Sample Id: 7674534-1-BKS LCSD Sample Id: 7674534-1-BSD

LCS LCS %RPD RPD Limit Units MB Spike **LCSD** LCSD Limits Analysis **Parameter** Result %Rec Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 03.27.19 21:10 < 8.00 1000 1000 100 951 95 70-135 5 20 mg/kg 1040 104 1010 70-135 03.27.19 21:10 Diesel Range Organics (DRO) 1000 101 3 20 < 8.13 mg/kg

MB MBLCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 03.27.19 21:10 87 124 118 70-135 1-Chlorooctane % 03.27.19 21:10 o-Terphenyl 90 109 103 70-135 %

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Seq Number: 3083750 Matrix: Solid Date Prep: 03.28.19

MB Sample Id: 7674566-1-BLK LCS Sample Id: 7674566-1-BKS LCSD Sample Id: 7674566-1-BSD

LCS %RPD RPD Limit Units LCS MB Spike Limits Analysis LCSD LCSD **Parameter** Result Result Amount %Rec %Rec Date Result 03.28.19 08:06 Gasoline Range Hydrocarbons (GRO) 1000 939 94 945 95 70-135 20 < 8.00 mg/kg 20 03.28.19 08:06 Diesel Range Organics (DRO) < 8.13 1000 958 96 981 98 70-135 2 mg/kg

LCS MB LCS LCSD MB LCSD Limits Units Analysis **Surrogate** %Rec Flag Flag %Rec Flag Date %Rec 03.28.19 08:06 70-135 1-Chlorooctane 94 127 126 % 03.28.19 08:06 97 o-Terphenyl 106 120 70-135 %

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result Log Difference Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Page 33 of 39 Final 1.000

Flag

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Flag



Seq Number:

QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method: TPH By SW8015 Mod

3083698 Matrix: Soil Date Prep: 03.27.19

Parent Sample Id: 619076-001 MS Sample Id: 619076-001 S

MSD Sample Id: 619076-001 SD

Prep Method:

TX1005P

Flag

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 03.27.19 13:10 9.02 998 903 90 916 91 70-135 20 mg/kg 947 95 70-135 20 03.27.19 13:10 Diesel Range Organics (DRO) < 8.11 998 956 96 mg/kg

MS MS **MSD MSD** Limits Units Analysis **Surrogate** Flag %Rec %Rec Flag Date 1-Chlorooctane 120 121 70-135 % 03.27.19 13:10 o-Terphenyl 100 97 70-135 % 03.27.19 13:10

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3083699
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Parent Sample Id:
 619078-001
 MS Sample Id:
 619078-001 S
 MSD Sample Id:
 619078-001 SD

%RPD RPD Limit Units MS MS Parent Spike Limits Analysis **MSD MSD Parameter** Date Result Amount Result %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 999 890 88 70-135 20 03.27.19 22:07 11.4 901 89 mg/kg 03.27.19 22:07 Diesel Range Organics (DRO) < 8.12 999 923 92 943 70-135 20 95 2 mg/kg

MS MS **MSD** MSD Limits Units Analysis Surrogate %Rec Flag Flag Date %Rec 1-Chlorooctane 111 113 70-135 % 03.27.19 22:07 o-Terphenyl 88 90 70-135 % 03.27.19 22:07

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3083750
 Matrix:
 Soil
 Date Prep:
 03.28.19

 Parent Sample Id:
 619079-002
 MS Sample Id:
 619079-002 SD
 MSD Sample Id:
 619079-002 SD

%RPD RPD Limit Units MS MS Spike Limits Parent **MSD** MSD Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec 03.28.19 09:22 Gasoline Range Hydrocarbons (GRO) < 7.99 999 1010 101 1020 102 70-135 1 20 mg/kg 103 70-135 20 03.28.19 09:22 Diesel Range Organics (DRO) < 8.12 999 1030 1040 104 1 mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag %Rec Flag Date %Rec 125 123 70-135 03.28.19 09:22 1-Chlorooctane % 119 70-135 03.28.19 09:22 o-Terphenyl 113 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MSD/LCSD Result

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



QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3083682Matrix:SolidDate Prep:03.27.19

MB Sample Id: 7674452-1-BLK LCS Sample Id: 7674452-1-BKS LCSD Sample Id: 7674452-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.130	129	0.123	123	70-130	6	35	mg/kg	03.27.19 20:22	
Toluene	< 0.00201	0.101	0.129	128	0.123	123	70-130	5	35	mg/kg	03.27.19 20:22	
Ethylbenzene	< 0.000568	0.101	0.110	109	0.105	105	70-130	5	35	mg/kg	03.27.19 20:22	
m,p-Xylenes	< 0.00102	0.201	0.215	107	0.208	105	70-130	3	35	mg/kg	03.27.19 20:22	
o-Xylene	< 0.00201	0.101	0.109	108	0.105	105	70-130	4	35	mg/kg	03.27.19 20:22	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	117		1	09		109		,	70-130	%	03.27.19 20:22	
4-Bromofluorobenzene	116		1	10		108			70-130	%	03.27.19 20:22	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

 Seq Number:
 3083682
 Matrix:
 Soil
 Date Prep:
 03.27.19

 Parent Sample Id:
 619078-012
 MS Sample Id:
 619078-012 SD
 MSD Sample Id:
 619078-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00201	0.100	0.117	117	0.120	119	70-130	3	35	mg/kg	03.27.19 21:00
Toluene	< 0.000457	0.100	0.117	117	0.118	117	70-130	1	35	mg/kg	03.27.19 21:00
Ethylbenzene	< 0.000567	0.100	0.0999	100	0.100	99	70-130	0	35	mg/kg	03.27.19 21:00
m,p-Xylenes	< 0.00102	0.201	0.197	98	0.198	98	70-130	1	35	mg/kg	03.27.19 21:00
o-Xylene	< 0.000346	0.100	0.0991	99	0.0997	99	70-130	1	35	mg/kg	03.27.19 21:00

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		112		70-130	%	03.27.19 21:00
4-Bromofluorobenzene	114		115		70-130	%	03.27.19 21:00

Flag



Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FI (81-

H0005,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) WWW. years com Page of N
Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:
Reporting:Level III ☐Level III ☐ PST/UST ☐TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:
ANALYSIS REQUEST Work Order Notes
TAT starts the day recevied by the lab, if received by 4:30pm
Sample Comments
K Se Ag Si
Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U 1631/245.1/7470 /7471: Hg

Revised Date 051418 Rev. 2018.1

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

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Reperved by: (Signature)

⊉ate/Ii**m**e



City, State ZIP:

Home

Email: Porry vercete

Hudro Shon

100

Deliverables: EDD

ADaPT 🗆

1300

Project Manager: Company Name: ddress:

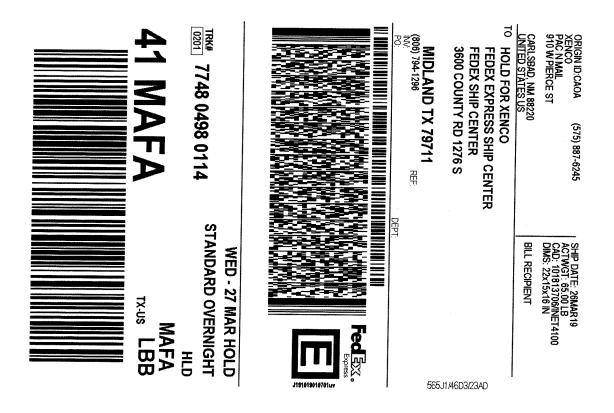
Chain of Custody

Work Order No: UNGO

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

70346 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Bill to: (if different) City, State ZIP: Address: Company Name: Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: www.xenco.com **Work Order Comments** Page

Relinquished by: (Signature) Received by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contro of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010200.8 / 6020:8RCRA 13PPM Texas 11 Al Sb AsCircle Method(s) and Metal(s) to be analyzedTCLP / SPLP 6010:8RCRA Sb A		7 7	17.3 (Projector Sense) 5 (121/198:50A 0:31)	1200 PM/2(2)	Sample Identification Matrix Sampled Sampled Depth	Received Intact: Yes No Cooler Custody Seals: Yes No N/A Correction Factor: Sample Custody Seals: Yes No N/A Total Containers:	ank: Yes (No) Wet loe: Yes No Thermometal 19,	Sampler's Name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Project Number: メナウ・マルグ Routine 日
Date/Time Reinquished by: (Signature) Repeived by: (Signature)	n client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ny losses or expenses incurred by the client if such losses are due to circumstances beyond the control submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiC s Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U					Cl 1d B	orides Off Lex			ANALYSIS REQUEST
e) Date/Time		SiO2 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg					Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm		***************************************	Work Order Notes



After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: HydroChemPSC (PSC)

Date/ Time Received: 03/27/2019 11:50:00 AM

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

Work Order #: 619079

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments						
#1 *Temperature of cooler(s)?		.2						
#2 *Shipping container in good condition	?	Yes						
#3 *Samples received on ice?		Yes						
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A						
#5 Custody Seals intact on sample bottle	es?	N/A						
#6*Custody Seals Signed and dated?		N/A						
#7 *Chain of Custody present?		Yes						
#8 Any missing/extra samples?		No						
#9 Chain of Custody signed when relinqu	uished/ received?	Yes						
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes						
#11 Container label(s) legible and intact?	?	Yes						
#12 Samples in proper container/ bottle?		Yes						
#13 Samples properly preserved?		Yes						
#14 Sample container(s) intact?		Yes						
#15 Sufficient sample amount for indicate	ed test(s)?	Yes						
#16 All samples received within hold time	e?	Yes						
#17 Subcontract of sample(s)?		N/A						
#18 Water VOC samples have zero head	dspace?	N/A						
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator Analyst: PH Device/Lot#:								
Checklist completed by:	Brianna Teel	Date: 03/27/2019						
Checklist reviewed by:	Brand Ritcherson	Date: 03/27/2019						



Certificate of Analysis Summary 619714

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flat 26 Fed 1



Project Id: XTO-995

Contact: Perry Verret

Project Location:

Date Received in Lab: Tue Apr-02-19 11:45 am

Report Date: 03-APR-19

Project Manager: Brandi Ritcherson

	Lab Id:	619714-0	01	619714-0	02		
Analysis Poguested	Field Id:	North Bottom Grab (Retake)		South Wall Grab	(Retake)		
Analysis Requested	Depth:	0-3 ft		0-3 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Mar-29-19 1	0:00	Mar-29-19 1	3:50		
TPH By SW8015 Mod	Extracted:	Apr-02-19 1	6:00	Apr-02-19 1	6:00		
	Analyzed:	Apr-03-19 (0:39	Apr-03-19 0	0:58		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		17.0	14.9	23.3	14.9		
Diesel Range Organics (DRO)		<14.9 14.9		<14.9	14.9		
Motor Oil Range Hydrocarbons (MRO)		<14.9	14.9	<14.9	14.9		
Total TPH		17.0	14.9	23.3	14.9	·	

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

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

Version: 1.%

Brand Retinson

Brandi Ritcherson Project Manager

Analytical Report 619714

for HydroChemPSC (PSC)

Project Manager: Perry Verret
North Indian Flat 26 Fed 1

XTO-995
03-APR-19

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco-Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)

Xenco-Lakeland: Florida (E84098)





03-APR-19

Project Manager: **Perry Verret HydroChemPSC** (**PSC**)
PO Box 1529 Amelia, La 70340
Morgan City, LA

Reference: XENCO Report No(s): 619714

North Indian Flat 26 Fed 1

Project Address:

Perry Verret:

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) 619714. 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. 619714 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,

Brandi Ritcherson

Project Manager

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 619714



HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Bottom Grab (Retake)	S	03-29-19 10:00	0 - 3 ft	619714-001
South Wall Grab (Retake)	S	03-29-19 13:50	0 - 3 ft	619714-002

XENCO

CASE NARRATIVE

Client Name: HydroChemPSC (PSC) Project Name: North Indian Flat 26 Fed 1

Project ID: XTO-995 Report Date: 03-APR-19 Work Order Number(s): 619714 Date Received: 04/02/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id: North Bottom Grab (Retake) Matrix: Soil Date Received:04.02.19 11.45

Lab Sample Id: 619714-001 Date Collected: 03.29.19 10.00 Sample Depth: 0 - 3 ft

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.02.19 16.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	17.0	14.9		mg/kg	04.03.19 00.39		1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	04.03.19 00.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	04.03.19 00.39	U	1
Total TPH	PHC635	17.0	14.9		mg/kg	04.03.19 00.39		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-135	04.03.19 00.39		
o-Terphenyl		84-15-1	85	%	70-135	04.03.19 00.39		





HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id: South Wall Grab (Retake) Matrix: Soil Date Received:04.02.19 11.45

Lab Sample Id: 619714-002 Date Collected: 03.29.19 13.50 Sample Depth: 0 - 3 ft

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

Tech: ARM % Moisture:

Analyst: ARM Date Prep: 04.02.19 16.00 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	23.3	14.9		mg/kg	04.03.19 00.58		1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9		mg/kg	04.03.19 00.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	04.03.19 00.58	U	1
Total TPH	PHC635	23.3	14.9		mg/kg	04.03.19 00.58		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	83	%	70-135	04.03.19 00.58		
o-Terphenyl		84-15-1	78	%	70-135	04.03.19 00.58		



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

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

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

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

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



QC Summary 619714

HydroChemPSC (PSC)

North Indian Flat 26 Fed 1

Analytical Method:TPH By SW8015 ModPrep Method:TX1005PSeq Number:3084425Matrix: SolidDate Prep:04.02.19

MB Sample Id: 7674881-1-BLK LCS Sample Id: 7674881-1-BKS LCSD Sample Id: 7674881-1-BSD

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 70-135 04.02.19 22:22 < 8.00 1000 1020 102 1150 115 12 20 mg/kg 70-135 20 04.02.19 22:22 Diesel Range Organics (DRO) 1000 1130 113 1210 7 mg/kg < 8.13 121

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 04.02.19 22:22 1-Chlorooctane 93 118 98 70-135 % o-Terphenyl 95 112 128 70-135 % 04.02.19 22:22

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P

 Seq Number:
 3084425
 Matrix:
 Soil
 Date Prep:
 04.02.19

 Parent Sample Id:
 619640-001
 MS Sample Id:
 619640-001 S
 MSD Sample Id:
 619640-001 SD

MS MS %RPD RPD Limit Units **Parent** Spike Limits Analysis **MSD** MSD **Parameter** Result Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 8.61 996 990 99 1120 70-135 12 20 04.02.19 23:21 111 mg/kg 04.02.19 23:21 Diesel Range Organics (DRO) 10.7 996 1070 106 1140 70-135 20 113 6 mg/kg

MS MS **MSD** MSD Limits Units Analysis **Surrogate** Flag %Rec Flag Date %Rec 1-Chlorooctane 116 129 70-135 % 04.02.19 23:21 04.02.19 23:21 o-Terphenyl 109 107 70-135 %

Flag



Chain of Custody

Work Order No:

www.xenco.com

Page

으

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

129/19 1399 May 111 Call of 11/10 1503	Vend (Mer Pullo)	5 4
Relinquished by: (Signature) (Received by: (Signature)	Received by: (Signature)	Relinquished b
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	this document and relinquishment of samples constitutes a valid purchase order from clith be liable only for the cost of samples and shall not assume any responsibility for any lc m charge of \$75.00 will be applied to each project and a charge of \$5 for each sample sut	Notice: Signature of the of service. Xenco will of Xenco. A minimum
AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn PA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U 1631/245.1/7470/7471:Hg	200.8 / 6020: 8RCRA 13PPM Texas 11 nd Metal(s) to be analyzed TCLP / SPLP 6010: 8RC	Circle Method(s) a
	(Schoke) S	South WALL Dras
	(Rebel)	Mary Botton Grap
Sample Comments	Sample Identification Matrix Sampled Sampled Depth	Sample Ide
lab, if received by 4:30pm	Yes No AIA Total Containers:	Sample Custody Seals:
TAT could the day received by the	Yes No N/A Correction Factor:	Cooler Custody Seals:
	(Yes) No Thermometed D	Temperature (°C): Received Intact:
	Temp Blank: Yes (No) Wet Ice: Yes No	SAMPLE RECEIPT
	Philip Cent Due Date:	Sampler's Name:
	703 at 2019	P.O. Number:
	Ŗ	Project Number:
<u>જ</u> ે	North India fals 3/ fal 1 Turn Around	Project Name:
Deliverables: EDD ADAPT Other:	byy Email: Pery, V	Phone:
Reporting:Level II Level III PST/UST TRRP Level IV	Anella, La. 20340 City, State ZIP:	City, State ZIP:
State of Project:	ລັ <i>§</i>	Address:
Program: UST/PST PRP Brownfields RRC Superfund		Company Name:
Work Order Comments	Perry Verset Bill to: (it different)	Project Manager:

Revised Date 051418 Rev. 2018.1



After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: HydroChemPSC (PSC)

Date/ Time Received: 04/02/2019 11:45:00 AM

Checklist reviewed by:

Work Order #: 619714

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

Date: 04/02/2019

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		.4
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	Yes
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqu	uished/ received?	Yes
#10 Chain of Custody agrees with sampl	e labels/matrix?	Yes
#11 Container label(s) legible and intact?	?	Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		N/A
#18 Water VOC samples have zero head	dspace?	N/A
[*] Must be completed for after-hours de	livery of samples prior to placing in	n the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Brianna Teel	Date: <u>04/02/2019</u>

NM OIL CONSERVATION

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

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

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

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

OCT 08 2014

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

RECEIVED

		8.	Rei	ease Notific	catio	n and C	orrective A	ction	1 ,		
NABI42	813388	6/				OPERA	TOR			al Report	Final Re
Name of C	ompany: B	OPCO, L.P.		260737		Contact: To			2 20		
				bad, N.M. 88220	0		No. 575-887-73				
Facility Na	me: North	Indian Flats	26 Feder	ral #1		Facility Typ	e: Exploration	and Pro	duction		
Surface Ow	ner: Feder	al		Mineral C	Owner:	Federal			API No	o. 30-015-27.	556
				LOCA	ATIO	N OF RE	LEASE				1 8
Unit Letter G	Section 26	Township 21S	Range 28E	Feet from the 2150	North North	/South Line	Feet from the 1980	East/\ East	Vest Line	County Eddy	
						_	W 104.054648			**	7 .
Type of Rele	ace: Cruda o	ail and Dradu	and water	NAT	URE	OF RELI		n.da	Values I	Dagassaugh 1 h	المصمانة وأميسه الما
Type of Refe	ase. Crude (on and Frodu	ced water			I.	Release: 2 bbls could bls produced water			cecovered: 1 d uced water	obl crude oil and
Source of Re			ater transf	fer pump.	11	Date and H 9/24/14 tim	lour of Occurrenc ne unknown		Date and		overy: 9/24/14 at a.
Was Immedia			Yes	No 🔲 Not Re	quired	If YES, To M. Bratche	Whom? r, H. Patterson an	d Jim A	mos		
By Whom? T							our: 9/24/14 at 2:			4	
Was a Watero	course Keaci		Yes 🛚	No		If YES, Vo	lume Impacting th	ne Wate	rcourse.		
Describe Area	Affected ar	nd Cleanup A	ction Take	Taken.* A flange en.* The spill affe the NMOCD and	cted app	proximately 4	50 sq. ft. of earthe	n conta	*		
egulations all ublic health o hould their op	operators are or the environerations have nent. In add	re required to nment. The a ve failed to ad lition, NMOC	report and cceptance equately i D accepta	is true and comple I/or file certain rel of a C-141 report investigate and rer ance of a C-141 re	lease no t by the nediate	tifications and NMOCD man contamination	d perform correcti rked as "Final Rep n that pose a threa	ve actio oort" do it to gro	ns for relea es not relie und water,	ases which ma we the operator surface water,	y endanger or of liability , human health
ignature: (gua S	Source					OIL CONS	ERVA	TION I	DIVISION	9
rinted Name:		e			A	pproved by E	nviignid By sp	Y/	Bear	40	
itle: Waste Ma	anagement a	and Remediat	ion Specia	list	A	pproval Date:	10/8/14	Ex	piration Da	ate:NA	
-mail Address	: tasavoie@	basspet.com				onditions of A				Attached [1
ate: 101	7/14	10)		32-556-8730	Reme	ediation pe	r O.C.D. Rule	s & Gu POSA	idelines		·
tach Additio	nal Sheets	If Necessar	y K		ATE	R THAN:_	1113114			72	P-2523

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-2523	
Facility ID		
Application ID		

Release Notification

Responsible Party

Responsible Party: X10 Energy, Inc					OGRID: 5380				
Contact Name: Kyle Littrell					Contact Telephone: (432)-221-7331				
Contact email: Kyle_Littrell@xtoenergy.com					Incident #:				
Contact mailin	ng address	522 W. Mermod,	Suite 704 Carlsba	d, NM	88220				
			Location	of R	elease	Source			
Latitude 32.45	2537		(NAD 83 in de	ecimal deg	Longitud	de -104.054648			
Site Name N	orth Indian	Flats 26 Federal	#1		Site Typ	e Exploration and Production			
Date Release D	Discovered	9/24/2014			API# (if	applicable) 30-015-27556			
Unit Letter	Section	Township	Range		C	ounty			
	26	21S	28E	Eddy					
☐ Crude Oil	Material	(s) Released (Select al Volume Release	Nature and that apply and attach d (bbls) 2			ific justification for the volumes provided below) Volume Recovered (bbls) 1			
	Vatan								
⊠ Hoducca v	vaici	Volume Release	ion of dissolved c	1.1	! <i>1</i> 1	Volume Recovered (bbls) 4			
		produced water >		nioriae	in the	Yes No			
☐ Condensate		Volume Release	d (bbls)			Volume Recovered (bbls)			
☐ Natural Gas	S	Volume Release	d (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)					Volume/Weight Recovered (provide units)				
Cause of Relea	se								
A flange gaske earthen contain	t failed on i	the water transfer around the water	pump. The flange storage tank.	gasket	was repl	aced. The spill affected approximately 450 sq. ft. of			

Incident ID	
District RP	2RP-2523
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsil	ple party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
` ,		
Yes No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom	? When and by what means (phone, email, etc)?
IVA		
	Initial Resp	oonse
The responsible p	party must undertake the following actions immediately un	less they could create a safety hazard that would result in injury
The source of the release	ase has been stopped.	
☐ The impacted area has	s been secured to protect human health and the	environment.
Released materials have	ve been contained via the use of berms or dike	s, absorbent pads, or other containment devices.
All free liquids and red	coverable materials have been removed and m	anaged appropriately.
If all the actions described	above have not been undertaken, explain why	:
Per 19.15.29.8 B. (4) NMA	AC the responsible party may commence reme	diation immediately after discovery of a release. If remediation
nas begun, please attach a within a lined containment	narrative of actions to date. If remedial effort area (see 19.15.29.11(A)(5)(a) NMAC), please	rts have been successfully completed or if the release occurred e attach all information needed for closure evaluation.
		of my knowledge and understand that pursuant to OCD rules and
regulations all operators are re	equired to report and/or file certain release notificat	ons and perform corrective actions for releases which may endanger
public health or the environme	ent. The acceptance of a C-141 report by the OCD	does not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In
addition, OCD acceptance of a	a C-141 report does not relieve the operator of resp	onsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:Kyle	Littrell T	itle: _SH&E Supervisor
Signature:	that	Date: _8/28/2019
email: Kyle Littrell@xtoen	Talanh	one:432-221-7331
	reiepii	
OCD Only		
Received by:	Da	te:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2523	
Facility ID		
Application ID		

Site Assessment/Characterization

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

	<u> </u>					
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?						
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?						
Did the release impact areas not on an exploration, development, production, or storage site?						
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.						

<u> </u>	
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.	
│ ☑ Field data	
Data table of soil contaminant concentration data	
Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs	
Photographs including date and GIS information	
☐ Topographic/Aerial maps	
Laboratory data including chain of custody	

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

Incident ID	
District RP	2RP-2523
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Kyle Littrell Signature: Kyle Littrell@xtoenergy.com	Title:SH&E Supervisor Date:8/28/2019 Telephone:(432)-221-7331						
OCD Only Received by:	Date:						

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2523	
Facility ID		
Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	g items must be inci	luded in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
☐ Description of remediation activities								
I hereby certify that the information given above is true and compand regulations all operators are required to report and/or file certifications are required to report and/or file certifications and reduced to the environment. The acceptance of should their operations have failed to adequately investigate and reduced the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the	ain release notification of a C-141 report by remediate contamina of a C-141 report doculations. The respondentions that exists OCD when reclama	tons and perform corrective actions for releases which the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for asible party acknowledges they must substantially ed prior to the release or their final land use in attion and re-vegetation are complete.						
Printed Name: Kyle Littrell	Title:	SH&E Supervisor						
Signature:	8/28/2	2019						
email: Kyle Littrell@xtoenergy.com	Telephone:	432-221-7331						
OCD Only								
Received by:	Date:							
Closure approval by the OCD does not relieve the responsible party emediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	e water, human healt	their operations have failed to adequately investigate and h, or the environment nor does not relieve the responsible						
Closure Approved by:	Date: _	;						
Printed Name:	Title: _							

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy, Minerals and Natural Resources

JAN 2 1 2015 Form C-141
Revised August 8, 2011

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

Oil Conservation Division 1220 South St. Francis Dr.

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

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

District II 811 S. First St., Artesia, NM 88210

es garene a a

Santa Fe, NM 87505 Release Notification and Corrective Action

NABIS	02635	3538			-	OPERA'		_	Init	ial Report		Final Repo	
Name of Company: BOPCO, L.P. 260737						Contact: Tony Savoie							
	Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220					Telephone No. 575-887-7329							
Facility Name: North Indian Flats 26 Federal #1						Facility Type: Exploration and Production							
Surface Ov	Surface Owner: Federal Mineral Owner					Federal			API No	o. 30-015-2	7556		
				LOCA	ATIO	N OF RE	LEASE			20			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		3010	
G	26	218	28E	2150	North	9	1980	East		Eddy			
8		20		Latitude N 32	.45253	7 Longitude	W 104.054648	L——					
				NAT	URE	OF RELI	EASE				29		
Type of Rele	ase: Produc	ed water					Release: 7 bbls		Volume F	Recovered: 4	bbls pr	roduced	
						produced w			water				
Source of Re	lease: Air E	liminator				Date and H 1/12/14 1 m	our of Occurrence	e		Hour of Discately 1:17 p.		1/12/14	
Was Immedia	ate Notice C	iiven?				If YES, To	Whom?		1				
			Yes 🗌	No 🛛 Not Re	quired	M. Bratche	r, H. Patterson an	d Jim A	mos				
By Whom?		*HDCOMPAL				Date and He							
Was a Watero	course Reac	hed?	Yes 🛚	No		If YES, Vol	lume Impacting th	ne Wate	ercourse.				
If a Watercou	rse was Imp	acted, Descri	be Fully.*	1-112	ψ,								
=			2 22.00				#					1	
												İ	
5			160										
Describe Caus	e of Proble	m and Remed	ial Action	Taken.* An air e	liminato	r on the water	r transfer pump fa	iled, the	e part was i	eplaced.			
Describe Area	Affected at	nd Cleanun A	ction Take	n * The snill affe	cted ann	rovimately 4	50 sq. ft. of earthe	n conta	inment her	m around the	water	storage	
tank. Same are	a impacted	as previous s	oill on 9/2	4/14, reference sp	ill repor	t #2RP-2523.	The spill area wil	l be ren	nediated for	llowing the !	vater VMOCI	D and BLM	
guidelines for	spills and re	eleases.			€.		•			Ü			
				F								1	
I hereby certify	that the in	formation give	en above i	s true and comple	te to the	best of my k	nowledge and un	derstand	d that pursu	ant to NMO	CD rule	es and	
regulations all	operators as	re required to	report and	or file certain rel	lease not	ifications and	perform correcti	ve actic	ns for relea	ises which m	av end	anger	
public health o	r the enviro	nment. The a	cceptance	of a C-141 report	t by the I	NMOCD mar	ked as "Final Rep that pose a threa	ort" do	es not relie	ve the opera	or of li	ability	
or the environn	nent. In ado	lition, NMOC	D accenta	nce of a C-141 re	neurate (contaminatior es not relieve i	n that pose a threa the operator of re	t to gro sponsih	und water,	surtace wate	r, huma h anv o	an health	
federal, state, o	r local laws	and/or regula	itions.					sp onoio	inty for co.	inpirative wit	ii aaiy o		
					1		OIL CONSI	ERVA	TION I	DIVISION	1		
Signature:	ou 5	2 augus			1				. /	1			
J.B				118	— Ar	nroyed by Er	nvironmental Spe	aialist:	1/		6	ŀ	
Printed Name:	Tony Savoid	e			1 1	proved by El	TVITOIIIII SPE	cialist.	tri	U			
Title: Waste Management and Remediation Specialist Approval Date: 1/23//5 Expiration						piration Da	ite: N/	7					
E-mail Address	: tasavoie@	basspet.com			Co	nditions of A	ontoval.						
1 /-					Rem	ediation po	er O.C.D. Rule	es & G	uideline	Attached [1	1	
Date: \ / Z	1/15			2-556-8730	UBI	MIT REME	DIATION PRO	POS	ALNO	S "			
Attach Additio	nal Sheets	If Necessary	y	26		R THAN:_	2 23 15	J	-	0/	201	160	
(4)							-			11	1/-/	159	

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-2759
Facility ID	
Application ID	

Release Notification

Responsible Party

sible Party: XTO Energy, Inc OGRID: 5380	OGRID: 5380			
Name: Kyle Littrell Contact Telephone: (432)-221-7331	Contact Telephone: (432)-221-7331			
email: Kyle_Littrell@xtoenergy.com	Incident #:			
mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220				
Location of Release Source 32.452537				
ne North Indian Flats 26 Federal #1 Site Type Exploration and Production				
ease Discovered 1/12/2015 API# (if applicable) 30-015-27556				
ter Section Township Range County				
26 21S 28E Eddy				
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) e Oil Volume Released (bbls) Volume Recovered (bbls)				
uced Water Volume Released (bbls) 7 Volume Recovered (bbls) 4	Volume Recovered (bbls) 4			
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No			
ensate Volume Released (bbls) Volume Recovered (bbls)	Volume Recovered (bbls)			
ral Gas Volume Released (Mcf) Volume Recovered (Mcf)				
(describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)	Volume/Weight Recovered (provide units)			
Release				
iminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of earthen tent berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference spill reports.				
Is the concentration of dissolved chloride in the produced water >10,000 mg/l? ensate Volume Released (bbls) Volume Recovered (bbls) ral Gas Volume Released (Mcf) Volume Recovered (Mcf) r (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide unit) Release iminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of eatent berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference sp	arthen			

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	N/A
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A	
	Initial Response
The responsible p	arty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release	ase has been stopped.
The impacted area has	been secured to protect human health and the environment.
Released materials have	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and red	coverable materials have been removed and managed appropriately.
If all the actions described	above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMA	AC 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
	area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the inform	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are re	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investigat	e and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of a	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
si man	Sund.
Signature:	Date: _8/28/2019
email: Kyle Littrell@xtoen	rergy.com Telephone: 432-221-7331
	1 0
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-2759
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?						
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 ☑ Y						
Are the lateral extents of the release overlying an unstable area such as karst geology?						
Are the lateral extents of the release within a 100-year floodplain?						
Did the release impact areas not on an exploration, development, production, or storage site?						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody						

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

Form C-141

Page 4

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

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 failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Kyle Littrell Signature: Kyle Littrell	Title:SH&E Supervisor Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID		
District RP	2RP-2759	
Facility ID		
Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following	g items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.2	9.11 NMAC
Photographs of the remediated site prior to backfill or phot must be notified 2 days prior to liner inspection)	tos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate O	DDC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
¥ .	
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regurestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name: Kyle Littrell	plete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in a OCD when reclamation and re-vegetation are complete. Title: SH&E Supervisor Date: 8/28/2019 Telephone: 432-221-7331
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title

NM OIL CONSERVATION

ARTESIA DISTRICT

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

JAN 09 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit I Copy to appropriate District Office in RECEIVER cordance with 19.15.29 NMAC.

			Rele	ease Notifi	catio	n and Co	orrective A	ction	l			
NAB1701052774				OPERATOR Initial Report						Final Report		
				Contact: Amy Ruth								
				No. 575-887-732								
Facility Na	me: North	Indian Flats	26 Fede	ral #1		Facility Typ	e: Exploration a	and Pro	duction			
Surface Ov	vner: Fede	ral		Mineral (Owner:	Federal			API No	. 30-015-2	27556	
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	(West Line	County		
G	26	215	28E	2100	North		1850	East		Eddy		
			Lat			Longitude	<u>-104.054825</u> EASE	•				
Type of Rele	ase	Produced	Water				Release 21 bbls	s	Volume I	Recovered	5 bbls	
Source of Re	lease	Pinhole in v	ralve				lour of Occurrence	e	Date and 12/22/20	Hour of Dis	covery	
Was Immedi	ate Notice (Given?				If YES, To	Whom?		12/22/201	10 10 am		
Was allamout	ato Protice (Yes [No 🛛 Not R	equired	N/A	W HOIII.					
By Whom?	N/A					Date and F	lour N/A					
Was a Water							lume Impacting t	he Wate	ercourse.			
			Yes 🛭	No		N/A						
N/A Describe Cau	ise of Probl	pacted, Descri em and Remed we developed a	lial Action	ı Taken.*	and fluid	s were release	ed to the well loca	ition. T	he failed ch	neck valve w	as repl	aced.
The leak affe	cted 2731 s		aliche pad	and free standin								
regulations all public health should their co or the environ	I operators or the envir operations hament. In a	are required to ronment. The ave failed to a	report an acceptance dequately	d/or file certain reports of a C-141 reports of a C-141 reports of the contract of the certain reports of the cert	release nort by the emediate	otifications are NMOCD made contamination	knowledge and used perform correct arked as "Final Room that pose a three the operator of r	tive acti eport" d eat to gr	ions for relo oes not reli ound water	eases which eve the ope s, surface wa	may er rator of iter, hu	ndanger Fliability man health
Signature Printed Name	Nigu	ny C. Ruth	ndl	<u> </u>		Approved by	OIL CONS				<u>N</u>	
Title: EH	S Environn	nental Supervi	sor			Approval Date	e: 1/10/17	7	Expiration I	Date: N/	7	
E-mail Addre	ess: AC	Ruth@basspet	.com			Conditions of			640	Attached		
Date: 1/9	/2017	Ph	one: 432-6	61-0571			VIIIW	WIL	11KIN	1		

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-4066
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc					0	GRID: 5380	
Contact Name: Kyle Littrell					Co	ontact Telephone: (432)-221-7331	
Contact ema	Contact email: Kyle_Littrell@xtoenergy.com					cident #:	
Contact mail	ling address	522 W. Mermod,	Suite 704 Carlsba	d, NM	88220		
Latitude 32.4	Location of Release Source Latitude 32.452595 Longitude -104.054825						
C' N	AT (1 T 1)	El . OCE 1 1		cimai ac,	-		
		Flats 26 Federal	#1 			Exploration and Production	
Date Release	Discovered	12/22/2016			API# (if app	plicable) 30-015-27556	
Unit Letter	Section	Township	Range		Cour	ntv	
G	26	21S	28E	Eddy		9	
Surface Owner: State Federal Tribal Private (Name: BLM							
Crude Oil		Volume Release				Volume Recovered (bbls)	
□ Produced	water	Volume Release				Volume Recovered (bbls) 5	
		Is the concentrate produced water	ion of dissolved c >10.000 mg/l?	hloride	in the	☐ Yes ☐ No	
Condensa	te	Volume Release			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)						Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units)						Volume/Weight Recovered (provide units)	
Cause of Release							
The body of a check valve developed a pinhole due to corrosion and fluids were released to the well location. The failed check valve was replaced. The leak affected approximately 2,731 square feet of caliche pad and free standing fluids were immediately recovered.							

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? N/A			
☐ Yes ⊠ No				
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
	Initial Response			
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury			
The source of the rele				
<u> </u>	s been secured to protect human health and the environment.			
	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices. coverable materials have been removed and managed appropriately.			
	above have not been undertaken, explain why:			
Day 10 15 20 9 D (4) NIM	AC the recognition must be more common as remodication immediately often discovery of a release. If remodiation			
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.				
regulations all operators are r public health or the environm failed to adequately investiga	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have te and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws			
Printed Name:Kyle Littrell Title: _SH&E Supervisor				
Signature:	Date: _8/28/2019			
email: Kyle Httrell@xtoe	nergy.com Telephone:432-221-7331			
OCD Only				
Received by:	Date:			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)			
Did this release impact groundwater or surface water?	☐ 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?				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 				
 ☑ Depth to water determination ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☑ Boring or excavation logs ☑ Photographs including date and GIS information 				
 ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody 				

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

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

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 failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: Signature:	Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-4066
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office nust be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
□ Description of remediation activities				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Kyle Littrell Title: SH&E Supervisor Date: 8/28/2019 Date: 8/28/2019				
email: Telephone: 432-221-7331				
OCD Only				
Received by: Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: Date:				
Printed Name: Title:				

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR ☐ Initial Report Final Report Name of Company: XTO Energy BOPCO OGRID: 260737 Contact: Kyle Littrell Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Telephone No: 432-221-7331 Facility Name: North Indian Flats 26 Federal #1 Facility Type: Exploration and Production Surface Owner: Federal Mineral Owner: Federal API No: 30-015-27556 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County G 26 **21S** 28E 2150 North 1980 Eddy Latitude 32.452295 Longitude -103.054719 NAD83 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Oil 7bbl oil 4bbl oil Source of Release Date and Hour of Occurrence Date and Hour of Discovery Oil tank 7/26/2018, 10:00 AM 7/26/2018, 10:00 AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required N/A By Whom? N/A Date and Hour: N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank. Describe Area Affected and Cleanup Action Taken.* All fluid was contained to earthen berm. Vacuum truck was dispatched and recovered 4bbl standing fluid from berm. An environmental contractor has been retained to assist with remediation efforts. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/of regulations. OIL CONSERVATION DIVISION Signature Approved by Environmental Specialist: Maria Pruett Printed Name: Amy C Approval Date: 08/10/18 Expiration Date: N/A Title: Environmental Coordinator E-mail Address: Amy_Ruth@xtoenergy.com Conditions of Approval: Attached 2RP-4912 8/9/2018 Phone: 575-689-3380

* Attach Additional Sheets If Necessary

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-4912
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc						OGRID: 5380	
Contact Name: Kyle Littrell						Contact Telephone: (432)-221-7331	
Contact email: Kyle_Littrell@xtoenergy.com					1	Incident #:	
Contact mail	ing address	522 W. Mermod, S	Suite 704 Carlsba	ıd, NM	88220		
Location of Release Source Latitude 32.452295 Longitude -104.054719							
Site Name	North Indian	Flats 26 Federal #	# 1		Site Type Exploration and Production		
Date Release	Discovered	7/26/2018			API# (if a	pplicable) 30-015-27556	
Unit Letter Section Township Range County G 26 21S 28E Eddy Surface Owner: State Federal Tribal Private (Name: BLM							
Cause of Release The crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank.							

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by 19.15.29.7(A) NMAC?	N/A	
19.13.29.7(A) NMAC:		
☐ Yes ⊠ No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
	Initial Response	
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ase has been stopped.	
☐ The impacted area has	s been secured to protect human health and the environment.	
Released materials ha	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
All free liquids and re	coverable materials have been removed and managed appropriately.	
If all the actions described	above have <u>not</u> been undertaken, explain why:	
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation	
	narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
	1 11111 11	
	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger	
public health or the environm	ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have	
	te and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 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: _8/28/2019	
email: Kyle Littrell@xtoe	nergy.com Telephone: 432-221-7331	
OCD Only		
Received by:	Date*	
ACCOUNTED BY.	Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	
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?	
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
A44-1	41144 £11

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

Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.		
🔀 Field data		
Data table of soil contaminant concentration data		
Depth to water determination		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		
Boring or excavation logs		
Photographs including date and GIS information		
Topographic/Aerial maps		
☐ Laboratory data including chain of custody		

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

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

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 failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger office one of the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: 19 Juliah	Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	2RP-4912
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

l .	I			
A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
Description of remediation activities				
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	olete to the best of my knowledge and understand that pursuant to OCD rules cain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for plations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.			
Printed Name: Kyle Littrell	Title: SH&E Supervisor			
Signature:	Date:8/28/2019			
email: Kyle Littrell@xtoenergy.com	Telephone: 432-221-7331			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	by of liability should their operations have failed to adequately investigate and a water, human health, or the environment nor does not relieve the responsible d/or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			