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** 

11-X					ulliu l	C, 14141 07.	705							
			Rel	ease Notifi	catio	on and Co	orrective A	ctio	n s					
NAB1428133861						OPERATOR				Final Repo				
Name of Company: BOPCO, L.P. 3/00737						Contact: Tony Savoie								
	Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220						Telephone No. 575-887-7329							
Facility Na	Facility Name: North Indian Flats 26 Federal #1						Facility Type: Exploration and Production							
Surface Ov	vner: Feder	al		Mineral (	Owner	: Federal			API No	. 30-015-275	56			
							T D A CIE		1 .					
Unit Letter   Section   Township   Range   Feet from the						FION OF RELEASE North/South Line   Feet from the			West Line	County				
G	26	218	28E	2150	Nort		1980	East	Nost Ellic	Eddy				
				Latitude N 32	2.4525	37 Longitude	W 104.054648	}	-					
		•		NAT	URE	E OF RELI	EASE			ā1				
Type of Rele	ase: Crude	oil and Produ	ced water			I.	Release: 2 bbls c			Recovered: 1 bb uced water	l crude oil and 4			
Source of Re	lease: Flang	e gasket on w	ater transf	er pump.			ols produced water our of Occurrence				ery: 9/24/14 at			
L						9/24/14 tim	e unknown			ately 2:20 p.m.				
Was Immedia	ate Notice C					If YES, To								
			Yes	No 🔲 Not Re	equired	red M. Bratcher, H. Patterson and Jim Arnos								
By Whom? T						Date and Hour: 9/24/14 at 2:46 p.m.								
Was a Watero	course Reac		Yes 🛚	No		If YES, Volume Impacting the Watercourse.								
If a Watercou	rse was Imr	acted Descri	he Fully *			1			-					
			o <b>o : u</b> y.											
	ă.													
	**									9				
Describe Caus	se of Proble	m and Remed	lial Action	Taken.* A flange	e gaske	t failed on the	water transfer pur	mp. The	flange gas	ket was replace	d.			
Describe Area	Affected a	nd Cleanup A	ction Take	en.* The spill affe	ected at	pproximately 4	50 sq. ft. of earth	en conta	inment her	m around the w	ater storage			
tank. The spill	l area will b	e remediated	following	the NMOCD and	BLM	guidelines for s	pills and releases		3	in around the w	ater storage			
		(*)									12			
I hereby certif	v that the in	formation giv	en above	s true and comple	ete to ti	he best of my k	nowledge and un	derstan	that nursu	ant to NMOCE	) rules and			
regulations all	operators a	re required to	report and	Vor file certain re	lease n	otifications and	perform correcti	ive actio	ons for relea	ses which may	endanger			
public health of	or the enviro	nment. The a	acceptance	of a C-141 repor	t by the	e NMOCD mar	ked as "Final Re	port" do	es not relie	ve the operator	of liability			
or the environ	perations have	ve tailed to ac	lequately i	nvestigate and rea ince of a C-141 re	mediate	contamination	n that pose a threa	at to gro	und water,	surface water, I	human health			
federal, state, o	or local laws	and/or regula	ations.	uice 01 a C-141 16	sport u	oes not reneve	the operator of re	sponsio	illy for cor	npitance with a	my other			
						OIL CONSERVATION DIVISION								
Signature: /	an S	Dance				11								
O.g						Annroyed by E	Nigned By sp	$U_{ij}$	Bunan	lade and	*			
Printed Name:	Tony Savoi	e				TPPIOVED by E	iiviiotinentai-spe							
Title: Waste M	anagement :	and Remediat	ion Specia	list	1	Approval Date:	10/8/14	Ex	piration Da	nte:NA				
E-mail Address														
TOWN / EUGICSS	. rasavorea	,ошоренени				Conditions of A	r O.C.D. Rule		idali	Attached				
Date: 10/	7/14			32-556-8730	JB	MITREME	NATION DEC	S & GI	LNO	M ————————————————————————————————————				
Attach Additio	nal Sheets	If Necessar	У		ATE	R THAN:	IATION PRO	. 004	-110	700	2- 2523			
			.55				1 (6 0)			/_KY	LUGU			

District J
1625 N. French Dr., Hobbs, NM 88240
District II
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

### **Release Notification**

### **Responsible Party**

Responsible Party: X	10 Energy, Inc			OGRID: 5380				
Contact Name: Kyle	Littrell			(	Contact Telephone: (432)-221-7331			
Contact email: Kyle_	Littrell@xtoenergy.	com	I	Incident #:				
Contact mailing addre	ss 522 W. Mermod,	Suite 704 Carlsba	id, NM 8	88220				
V (1) 1 20 450507		Location						
Latitude 32.452537		(NAD 83 in de	ecimal deg	Longitude grees to 5 dec	: -104.054648 cimal places)			
Site Name North Ind	ian Flats 26 Federal	#1		Site Type	Exploration and Production			
Date Release Discovere	ed 9/24/2014			API# (if ap	pplicable) 30-015-27556			
Unit Letter Section	Township	Range		Cou	unty			
G 26	21S	28E	Eddy					
Mate	rial(s) Released (Select a	Nature and attached (bbls) 2			ic justification for the volumes provided below)  Volume Recovered (bbls) 1			
☐ Produced Water	Volume Release	ed (bbls) 8			Volume Recovered (bbls) 4			
	Is the concentral produced water	tion of dissolved c >10,000 mg/l?	hloride	in the	☐ Yes ☐ No			
☐ Condensate	Volume Release	ed (bbls)			Volume Recovered (bbls)			
☐ Natural Gas	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe)	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)							
Cause of Release  A flange gasket failed of earthen containment be	on the water transfer	pump. The flange storage tank.	e gasket	was replac	ced. 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 responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A
19.13.29.7(A) NWAC:	
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	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	ve 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 not been undertaken, explain why:
has begun, please attach a	C 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.
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 public health or the environment	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
and/or regulations.	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 Littrell@xtoen	<u>regy.com</u> Telephone: <u>432-221-7331</u>
OCD Only	
Received by:	Date:

### 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.

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?								
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?								
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?								
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 <b>not</b> 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 well	s.							
<ul><li>☐ Field data</li><li>☐ Data table of soil contaminant concentration data</li></ul>	1							
Depth to water determination  Determination of water coveres and significant vectors aways within 1/2 mile of the letteral automa of the release								
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs								

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.

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Incident ID	
District RP	2RP-2523
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	Title:SH&E Supervisor
Signature: The Filler	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-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 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  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: Date:									
Printed Name: Title:									

District I 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

### NM OIL CONSERVATION

ARTESIA DISTRICT

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

Form C-141 Revised August 8, 2011 JAN 21 2015

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division Santa Fe, NM 87505

1220 South St. Francis Dr.

			Rel	ease Notifi	catio	n and Co	orrective A	ction			
NABIS	02633	1538				OPERA'	TOR		✓ Init	ial Report	☐ Final Rep
		OPCO, L.P.		60737		Contact: To					
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220							No. 575-887-73				
Facility Na	Facility Name: North Indian Flats 26 Federal #1					Facility Typ	e: Exploration	and Proc	duction		
Surface Ov	ner: Feder	al		Mineral (	Owner:	Federal			API No	o. 30-015-2	7556
				LOCA	ATIO	N OF RE	LEASE			20	
Unit Letter G	Section 26	Township 21S	Range 28E	Feet from the 2150	,	South Line	Feet from the 1980	East/W East	est Line	County Eddy	<u></u>
8		g.					e W 104.054648	3			2
95.1				NAT	URE	OF RELI					
Type of Rele	ase: Produc	ed water				Volume of produced w	Release: 7 bbls	- 1	Volume F water	Recovered: 4	bbls produced
Source of Re	lease: Air E	liminator				Date and H	our of Occurrence e unknown	e 1	Date and	Hour of Disc ately 1:17 p.:	covery: 1/12/147 m. 15
Was Immedia	ite Notice G	iiven?	Yes 🗌	No ⊠ Not Re	quired	If YES, To M. Bratche	Whom? r, H. Patterson an		1		
By Whom?		*BOCOMPALA	200-175 XE			Date and H					
Was a Watero	ourse Reac	hed?	Yes 🖂	No		If YES, Volume Impacting the Watercourse.					
Describe Area	Affected ar	nd Cleanup Ac as previous sp	ction Take	Taken.* An air elen.* The spill affe 4/14, reference sp	cted app	roximately 45	50 sq. ft. of earth	en contain	ment ber	m around the	e water storage NMOCD and BLM
regulations all public health o should their op or the environn	operators are the environerations have nent. In add	re required to not not not required to add to add to add to add to add to add to not required to add to not required to add to a	report and cceptance equately in D accepta	s true and comple l/or file certain rel of a C-141 report nvestigate and ren ince of a C-141 re	ease not t by the I nediate o	ifications and NMOCD mar contamination	I perform correcting the second in the secon	ve actions port" does it to groun	s for relea not relied and water.	ases which move the operate surface water	ay endanger for of liability or, human health
federal, state, o	r local laws	and/or regula	tions.				OII CONG	CDMAT	TION F	MAISTON	r
		<u> </u>				OIL CONSERVATION DIVISION				<u> </u>	
Signature:	Ou >	Danie		118-12-11	-  Ar	pproved by Er	nvironmental Spe	cialist:		//,	6
Printed Name:	l ony Savote						1-1	- t	m	un	
itle: Waste Ma	nagement a	nd Remediati	on Specia	list	Ap	proval Date:	1/23/15	Expi	iration Da	ite: N/	7
E-mail Address	: tasavoie@	basspet.com			Co	nditions of A	pproval:			Attached F	,
Date: 1 / 2	1/15			32-556-8730	JUBI	WIT REME	er O.C.D. Ruic DIATION PRO	es & Gu DPOSAI	iideline L NO	stached [	
ttach Additio	nal Sheets	If Necessary	1	36	LATE	R THAN:_	2 23 15			28	R-2159

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District I
1625 N. French Dr., Hobbs, NM 88240
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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**

Responsible Party: XTO Energy, Inc					OGRID: 5380				
Contact Name: Kyle Littrell						Contact Telephone: (432)-221-7331			
Contact ema	il: Kyle_Lit	ttrell@xtoenergy.c	om			Incident #:			
Contact mai	ling address	522 W. Mermod,	Suite 704 Carlsba	id, NM 8	88220				
Latitude 32.4	152537		Location  (NAD 83 in de		Longitu	e Source de -104.054648			
Site Name	North Indian	Flats 26 Federal	#1		Site Ty	pe Exploration and Production			
Date Release	Discovered	1/12/2015			API# (i)	(applicable) 30-015-27556			
Unit Letter	Section	Township	Range			ounty			
G	26	21S	28E	Eddy		Culty			
	Materia		Nature and	d Vol	ume o	of Release			
Crude Oil		Volume Release				Volume Recovered (bbls)			
⊠ Produced	Water	Volume Release				Volume Recovered (bbls) 4			
		Is the concentrat produced water	ion of dissolved c >10,000 mg/l?	hloride	in the	☐ Yes ☐ No			
Condensa	te	Volume Release				Volume Recovered (bbls)			
Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)						Volume/Weight Recovered (provide units)			
Cause of Release  An air eliminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference spill report 2RP-2523.									

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 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)?
	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.
1	coverable materials have been removed and managed appropriately.
	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.
regulations all operators are re	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
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
addition, OCD acceptance of	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@xtoer	nergy.com Telephone: 432-221-7331
OCD Only	
<del>-</del>	
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?	>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 <b>not</b> 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 man showing impacted area surface features, subsurface features, delineation points, and monitoring wells							

Telefit to 19,10.29.11 Taylife for specifics.
Characterization Report Checklist: Each of the following items must be included in the report.
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>

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	Title:SH&E Supervisor								
Signature:									
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331								
OCD Only									
Received by:	Date:								
email:	Telephone:(432)-221-7331								

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-2759
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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	items must be included in the closure report.								
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 OD	□ 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 reshuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulates reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including notification to the Coaccordance with 19.15.29.13 NMAC including notification wit	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.								
	Title:SH&E Supervisor								
Signature:	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 remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible 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

State of New Mexico Energy Minerals and Natural Resources

JAN 09 2017

Form C-141 Revised August 8, 2011

Submit Coax to appropriate District Office in RECEIVED cordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action													
NAB1701052774				<b>OPERA</b>	TOR	🛛 Init	☐ Initial Report ☐ Final Report						
					Contact: Amy Ruth								
					38220		Telephone No. 575-887-7329 Facility Type: Exploration and Production						
Facility Nar	ne: North	Indian Plats	26 Feder	rai#i		Facility Ly	e: Exploration	and Production					
Surface Ow	ner: Fede	ral		Mine	eral Owner:	: Federal		API N	o. 30-015-2	27556			
				L	OCATIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from		h/South Line	Feet from the	East/West Line	County				
G	26	218	28E	2100	North		1850	East	Eddy				
			Lat	itude <u>32</u>			e104.054825	•					
				1	NATURE	OF REL							
Type of Relea	ase	Produced	Water			Volume o	f Release 21 bbl	s Volume	Recovered	5 bbls			
Source of Re	lease	Pinhole in v	ralve				lour of Occurrence	1.0	Hour of Dis	covery	7		
Was Immedia	ite Notice (	Given?				If YES, To	6 time unknown Whom?	12/22/20	16 10 am				
			Yes	No 🛛 N	lot Required								
By Whom?							Iour N/A						
Was a Watero	ourse Read		Yes 🗵	No		If YES, Volume Impacting the Watercourse. N/A							
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*										
N/A													
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*									
The body of a	check valv	e developed a	a pinhole d	lue to corros	sion and fluid	ds were releas	ed to the well loca	tion. The failed c	heck valve w	as repi	laced.		
Describe Area													
The leak after	ted 2731 s	quare feet of c	aliche pad	and free sta	anding fluids	were immedi	ately recovered.						
								nderstand that pur tive actions for re					
								eport" does not rel					
should their o	perations h	ave failed to a	dequately	investigate	and remedia	te contaminati	on that pose a thre	eat to ground wate	r, surface wa	ter, hu	ıman health		
or the environ federal, state,	ment. In a	ddition, NMO	Chaccep	tance of a C	-141 report o	does not reliev	e the operator of	responsibility for o	ompliance w	ith any	y other		
roderal, state,	77	VS and O regu	A			OIL CONSERVATION DIVISION							
			11										
Signature I und				Approved by Environmental Specialist / Environment									
Printed Name	: An	y C. Ruth				тррготес ој	Environancinas o	The state of the s					
Title: EHS Environmental Supervisor						Approval Dat	e: 1/10/17	7 Expiration	Date: N/	<u>†</u>			
E-mail Addres	ss. AC	Ruth@basspe	t com			Conditions of	Annroval			_			
wire voosis	Marin and		ATMEN TO			COMMINIONS OF	1. 0.	Hached	Attached				
	2017		one: 432-6	61-0571			Qu w	MUNICA		A ~	- 10//		
Attach Addit	ional Shee	is II Necessa	ary							ari	P-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						Contact Telephone: (432)-221-7331
Contact ema	Contact email: Kyle_Littrell@xtoenergy.com					Incident #:
Contact mail	ling address	522 W. Mermod,	Suite 704 Carlsba	id, NM	88220	
020	Location of Release Source					
Latitude 32.4	Latitude 32.452595					
Site Name	North Indian	Flats 26 Federal	#1		Site Typ	e Exploration and Production
Date Release	Discovered	12/22/2016			API# (if	applicable) 30-015-27556
Unit Letter	Section	Township	Range		Co	ounty
G	26	21S	28E	Eddy	/	
·	Surface Owner: State Federal Tribal Private (Name: BLM					
	☐ Crude Oil Volume Released (bbls) Volume Recovered (bbls)			Volume Recovered (bbls)		
⊠ Produced	Water	Volume Release	ed (bbls) 21			Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			Yes No		
Condensa	Condensate Volume Released (bbls) Volume Recovered (bbls)			Volume Recovered (bbls)		
☐ Natural G	Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)			Volume Recovered (Mcf)		
Other (des	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)					
Cause of Rele	ease					
						re released to the well location. The failed check valve d 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	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.
-	coverable materials have been removed and managed appropriately.  I above have not been undertaken, explain why:
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t 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 required to report and/or file certain release notifications and perform corrective actions for releases which may endanger tent. 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	
Signature:	Date: _8/28/2019
email: Kyle Littrell@xtoe	nergy.com Telephone: <u>432-221-7331</u>
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>&gt;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 <b>not</b> 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 ontamination 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.		
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> </ul>		
<ul> <li>☒ Topographic/Aerial maps</li> <li>☒ Laboratory data including chain of custody</li> </ul>		

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		

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.	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	
OCD Only	
Received by:	Date:

# State of New Mexico Oil Conservation Division

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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
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		
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 any endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability would their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, aman health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for impliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially store, 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.  Title:  SH&E Supervisor  Date:  8/28/2019  Date:  8/28/2019  Telephone:  432-221-7331		
CD Only		
eceived by: Date:		
osure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and mediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible rty of compliance with any other federal, state, or local laws and/or regulations.		
osure Approved by: Date:		
inted Name: Title:		

#### OCD Rec'd:08/09/18

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.

Dunta	1 6, 14141 67303			
Release Notification and Corrective Action				
	<b>OPERATOR</b>		Report  Final Repor	
Name of Company: XTO Energy BOPCO OGRID: 260737	Contact: Kyle Littrell			
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-733	1		
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration as			
Surface Owner: Federal Mineral Owne			30-015-27556	
		Ai i tto.	30-013-21330	
	ON OF RELEASE	S4/13/4 I : I		
Unit Letter Section Township Range Feet from the Nor G 26 21S 28E 2150 Nor			County Eddy	
Latitude 32.452295 I	ongitude -103.054719	NAD83		
_	E OF RELEASE			
Type of Release	Volume of Release	Volume Re	ecovered	
Oil	7bbl oil	4bbl oil		
Source of Release Oil tank	Date and Hour of Occurrence 7/26/2018, 10:00 AM	Date and H 7/26/2018,	Iour of Discovery	
Was Immediate Notice Given?	If YES, To Whom?	772072010,	10,00 AW	
☐ Yes ☐ No ☒ Not Require	d N/A			
By Whom? N/A	Date and Hour: N/A			
Was a Watercourse Reached?	If YES, Volume Impacting the N/A	If YES, Volume Impacting the Watercourse.		
If a Watercourse was Impacted, Describe Fully.* N/A				
IVA				
Describe Cause of Problem and Remedial Action Taken,*				
Crew was attempting to remove flowline from oil tank on location. Upo	n striking hammer union, threads co	onnecting valve an	nd swedge cracked, causing a	
release of oil into earthen containment. Vacuum truck was dispatched ar				
oil was returned to oil tank.				
Describe Area Affected and Cleanup Action Taken.*				
All fluid was contained to earthen berm. Vacuum truck was dispatched a	and recovered 4bbl standing fluid fr	om berm. An envi	ironmental 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 under	erstand that pursua	ant to NMOCD rules and	
regulations all operators are required to report and/or file certain release				
public health or the environment. The acceptance of a C-141 report by t	he NMOCD marked as "Final Repo	rt" does not reliev	ve the operator of liability	
should their operations have failed to adequately investigate and remedia				
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of resp	onsibility for con	apliance with any other	
federal, state, or local laws and/of regulations.				
	OIL CONSE	RVATION L	DIVISION	
Signature ( Lucy ( XC)				
	Approved by Environmental Spec	inliet		
Printed Name: Amy C. Ruth	Approved by Environmental Spec	Maria Pr	ruett	
Title: Environmental Coordinator	Approval Date: 08/10/18	Expiration Da	ate: N/A	
E-mail Address: Amy Ruth@xtoenergy.com	Conditions of Approval:		Attached	
Date: 8/9/2018 Phone: 575-689-3380			2RP-4912	

\* Attach Additional Sheets If Necessary

I#:nMAP1822267131 A#:pMAP1822266963 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	e: Kyle Litt	trell				Contact Telephone: (432)-221-7331			
Contact email	Contact email: Kyle_Littrell@xtoenergy.com					Incident #:			
Contact maili	Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220								
Latitude 32.45	52295		Location  (NAD 83 in de		Longitud	de -104.054719			
Site Name N	orth Indian	Flats 26 Federal #	¥1		Site Typ	pe Exploration and Production			
Date Release I	Discovered	7/26/2018			API# (if	(applicable) 30-015-27556			
Unit Letter	Section	Township	Range	EH		ounty			
G	26	218	28E	Eddy					
			Nature and	d Vol	ume o	eific justification for the volumes provided below)			
Crude Oil		Volume Release				Volume Recovered (bbls) 4			
☐ Produced \	Water	Volume Release				Volume Recovered (bbls)			
		Is the concentrate produced water >	ion of dissolved cl >10,000 mg/l?	hloride	in the	Yes No			
Condensate	e	Volume Release				Volume Recovered (bbls)			
☐ Natural Ga	s	Volume Release	d (Mcf)			Volume Recovered (Mcf)			
Other (desc	cribe)	Volume/Weight	Released (provide	e units)		Volume/Weight Recovered (provide units)			
Cause of Relea	ise								
swedge cracke	d, causing a		earthen containn	nent. Va	acuum tr	striking hammer union, threads connecting valve and uck was dispatched and recovered all standing fluid. nk.			

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

Was this a major	If YES, for what reason(s) does the re-	sponsible par	rty 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	o whom? Wh	hen and by what means (phone, email, etc)?
	Initial	Respons	se
The responsible p	varty must undertake the following actions immed	liately unless they	ey could create a safety hazard that would result in injury
☐ The source of the relea	ase has been stopped.		
The impacted area has	s been secured to protect human health a	and the enviro	ronment.
Released materials ha	ve been contained via the use of berms	or dikes, abso	sorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed	l and manage	ed appropriately.
If all the actions described	above have <u>not</u> been undertaken, expla	ain why:	
		•	
Per 19.15.29.8 B. (4) NMA	AC the responsible party may commend	ce remediation	on immediately after discovery of a release. If remediation
has begun, please attach a	narrative of actions to date. If remed	lial efforts hav	ave been successfully completed or if the release occurred
within a lined containment	; area (see 19.15.29.11(A)(5)(a) NMAC	), please attac	ach all information needed for closure evaluation.
			knowledge and understand that pursuant to OCD rules and
			and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have
failed to adequately investigate	te and remediate contamination that pose a t	threat to ground	ndwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the operator	t of responsibili	ility for compliance with any other federal, state, or local laws
_	T 20 H	m'd	OMORE
Printed Name:Kyle	Littrell	little:_	_SH&E Supervisor
Signature:	atteth	Date:_	_8/28/2019
email: Kyle Littrell@xtoer	nergy.com	Telephone:	432-221-7331
	90	• •	
OCD Only			
Received 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?	>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 <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in Indf format are preferred) demonstrating the lateral and ver	tical extents of soil

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		

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	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:Kyle Littrell	Title:SH&E Supervisor
Signature: Talkat	Date:8/28/2019
Printed Name: Kyle Littrell Title:SH&E Supervisor	
OCD Only	
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 i	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	I I NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C 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 certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Kyle Littrell	Title:SH&E Supervisor
Signature: The Control of the Contro	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 emediate contamination that poses a threat to groundwater, surface warty of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:Bradford Billings	Date: _05/12/2020
rinted Name:	Title:





### **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>

 $Mike\ Bratcher\mbox{-} NMOCD\ \underline{mike.bratcher@state.nm.us}$ 

Jim Amos- BLM jamos@blm.gov

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#### 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)

					METI	HOD: EPA	3021B		ME	THOD: 801	.5M		EPA 300	Comments
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)	TOTAL TPH C6-C35 (mg/Kg)	CHLORIDE (mg/Kg)	
001-North Bottom-Grab	0-3'	3/25/2019	Dry	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	1040	313	1350	<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	21.9	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	85.4	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	176	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	28.2	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	36.1	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	23.3		Retake-007
NMOCD Criteria				<10mg/kg				<50mg/kg				<100mg/kg	<600mg/kg	

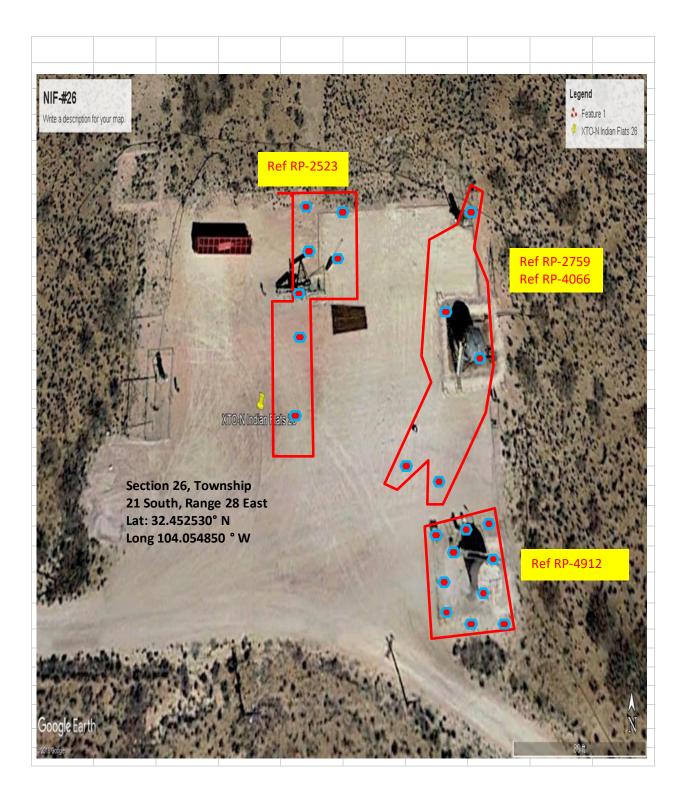
#### Phase #2- Reference 2RP-2523/2RP-2759/2RP-4066

#### Analysis Certificate #624909 5/16/19

SAMPLE LOCATIONS	SAMPLE DEPTH	SAMPLE DATE	SOIL STAUTS	METHOD: EPA 8021B					METHOD: 8015M			TOTAL TPH	EPA 300	Comments
				BENZENE	TOLUENE	EHTYL-	TOTAL	TOTAL	GRO	DRO	MRO	C6-C35	CHLORIDE	
				(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** 

TNI

**Project Id:** 

217.1.711.0003.J0032

Contact:

**Project Location:** 

Perry Verret

**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	002	593503-0	03	593503-0	04	593503-0	005	593503-0	006
Analysis Requested	Field Id:	A-1		B-1		C-1		D-1		E-1		F-1	
Analysis Requesieu	Depth:	0-6		0-6		0-6		0-6		0-6		0-6	
	Matrix: SOII		SOIL			SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-24-18 1	Jul-24-18 11:00		Jul-24-18 11:10		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	Jul-25-18 19:08		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	mg/kg RL		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

Holy 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			
Anaiysis Kequesieu	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 1	6:30	Jul-25-18 1	5:30		
	Analyzed:	Jul-25-18 20	0:02	Jul-25-18 2	0:07	Jul-25-18 2	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

bely Taylor

# **Analytical Report 593503**

### for

### **PSC Industrial Outsourcing LP**

Project Manager: Perry Verret
XTO NFI #26
217.1.711.0003.J0032

Collected By: Client

26-JUL-18





### 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	<b>Date Collected</b>	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

Soil

Sample Id: A-1

Lab Sample Id: 593503-001

Date Collected: 07.24.18 11.00

Matrix:

Date Received:07.25.18 11.00

Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech:

SCMAnalyst:

SCM

07.25.18 16.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	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

Soil

Sample Id: **B-1** 

Matrix:

Date Received:07.25.18 11.00

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

SCM

% Moisture:

Tech: SCM Analyst:

07.25.18 16.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	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:

Tech: SCM

Analyst:

SCM

07.25.18 16.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	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

Soil

Sample Id: D-1

Matrix:

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:

Tech:

Analyst:

SCMSCM

Date Prep:

07.25.18 16.30

Basis:

Wet Weight

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

Soil

Sample Id: E-1

Matrix:

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

Tech: SCM % Moisture:

SCM Analyst:

07.25.18 16.30 Date Prep:

Basis:

Wet Weight

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:

Date Received:07.25.18 11.00

Lab Sample Id: 593503-006

Soil Date Collected: 07.24.18 11.50

Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

SCMSCM

07.25.18 16.30 Date Prep:

% Moisture: Basis:

Wet Weight

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:

Date Received:07.25.18 11.00

Lab Sample Id: 593503-007

Soil Date Collected: 07.24.18 12.00

07.25.18 16.30

Sample Depth: 0 - 6

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SCM

Analyst:

SCM Date Prep: % Moisture:

Basis:

Wet Weight

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

Soil

Sample Id: H-1

H-1

Matrix:

Date Prep:

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:

Tech: SCM

Analyst:

SCM

07.25.18 16.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	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

Soil

Sample Id: I-1

Matrix:

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

Tech:

Analyst:

SCMSCM

07.25.18 16.30 Date Prep:

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	4.95	mø/kø	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:

Tech: SCM

Analyst:

SCM

Date Prep: 07.25.18 16.30

Basis:

Wet Weight

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

E300P

E300P



#### **QC Summary** 593503

### **PSC Industrial Outsourcing LP**

XTO NFI #26

Analytical Method: Chloride by EPA 300

MR

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

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

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

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

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

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

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

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

LCS = Laboratory Control Sample A = Parent Result

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

ABORATORIES

Project Manager:

Company Name: Address:

City, State ZIP:

Amelia

City State ZIP:

1529

# Chain of Custody

Work Order No:<u>219:1911- 0003-บี 603</u>2

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 A7 (480-355-0900) Atlanta GA (770-440-8800) Tampa El (813)

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

Bill to: (if different)
Company Name:

Relinquished by: (Signature)  Received by: (Signature)  Received by: (Signature)	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM  Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP  Notice: Signature of this document and relinquishment of samples constitutes a valid pure of service. Xenco will be liable only for the cost of samples and shall not assume any re of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$1.	86-1 5 7-34 12-40	H-1 > 724 1200	F-1 5 7-24 11-50	181-119T	7-24 1	A-1 5 7-24-4 1100	Sample Identification Matrix Date Time Sampled Sampled		Temperature (°C): 2.3 Thermometer ID Received Intact: Yes No	Temp Blank: Yes No W	ne: Pear Veget/David Woods	P.O. Number: LAW 1717-1535 R	XTO NET#26	Phone: 1985-221-06 44 En
Ignature)  Date/Time Relinquished by: (Signature)  7.24-13-13-18-11-300  Particular of the process of the proce	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471: Hg  Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, will be liable only for the cost of samples and salme any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances and subcontractors. It assigns standard terms and conditions 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 ferms will be enforced used to report the control.	<del></del>	0 0-6 1 4	\$0 0~L   L	++	0-61	0-6 1	Depth Number	actor:  TAT starts the day received by the lab, if received by 4:30pm	htainers			Rush: 7014	Turn Around ANALYSIS REQUEST Work Order Notes	Email: Kerris & Kylachun PSC, Com Deliverables: EDD ADAPT Other:

Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐

**Work Order Comments** 

www.xenco.com

Page

앜

State of Project:



# XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: PSC Industrial Outsourcing LP

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

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

Date: 07/25/2018

Work Order #: 593503

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 cont	ainer/ cooler?	N/A
#5 Custody Seals intact on sample bottles	?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinqui	shed/ received?	Yes
#10 Chain of Custody agrees with sample	labels/matrix?	Yes
#11 Container label(s) legible and intact?		Yes
#12 Samples in proper container/ bottle?		Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicate	d test(s)?	Yes
#16 All samples received within hold time?	?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero heads	space?	N/A
* Must be completed for after-hours deli	very of samples prior to placing in	the refrigerator
Analyst:	PH Device/Lot#:	
Checklist completed by:	Connie Hernandez	Date: <u>07/25/2018</u>

Checklist reviewed by:



Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

**Project Name: North Indian Flats 2b Fed 001** 

Page 5

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

	I I												
	Lab Id:	619079-0	001	619079-0	002	619079-0	003	619079-0	004	619079-	005	619079-0	006
Analysis Requested	Field Id:	North Botton	n Grab	Center Botton	Center Bottom Grab		n Grab	East Wall Grab		Bottom Composite		North Wall Co	omposite
Anatysis Requested	Depth:	0.3- ft	:	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft	t
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Mar-25-19	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		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	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 Rotinson

Brandi Ritcherson Project Manager



# Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

**Project Name: North Indian Flats 2b Fed 001** 

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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	007	619079-0	800	619079-0	009	619079-	010	619079-	011	619079-0	012
Amalusia Daguastad	Field Id:	South Wall Co	omposite	West Wall Composite		East Wall Composite (For Re		E1 (Release Retake)		E2 (Release Retake)		E3 (Release I	Retake)
Analysis Requested	Depth:	0.3- ft	t	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- f	t
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-19	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		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	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	80:00
	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 Rotinson

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.

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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	<b>Date Collected</b>	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

### **CASE NARRATIVE**

Page 62 of 132

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

Tech: CHE

% Moisture:

ure:

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 21.42	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM 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

Tech: SCM

Date Prep: 03.27.19 15.00

% Moisture:

Basis:

Wet Weight

Analyst: SCM

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:

SPC Analyst:

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	mø/kø	03.27.19.21.48	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

ARM

% Moisture:

Tech: ARM Analyst:

03.28.19 07.00 Date Prep:

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 % Moisture:

Tech: SCM

Analyst:

SCM

Date Prep: 03.27.19 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	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: Analyst: CHE SPC

03.27.19 15.40

% Moisture:

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

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM 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: Matrix: Soil **South Bottom Grab** 

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:

SCM Analyst:

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** 

Soil Matrix:

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

CHE

% Moisture:

Wet Weight

Tech:

SPC Analyst:

Date Prep:

03.27.19 15.40

Basis:

Seq Number: 3083706

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	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

ARMARM

% Moisture:

03.28.19 07.00 Date Prep:

Basis: Wet Weight

Seq Number: 3083750

Tech:

Analyst:

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

Soil

Matrix:

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

**East Wall Grab** 

Prep Method: SW5030B

Tech: SCM % Moisture:

SCM

Sample Id:

Analyst:

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: Analyst: CHE SPC

Date Prep: 03.27.19 15.40

% Moisture: Basis:

Wet Weight

Seq Number: 3083706

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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

% Moisture:

Tech:
Analyst:

ARM 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 10.38	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		



Lab Sample Id: 619079-005

### **Certificate of Analytical Results 619079**



### HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Soil

03.27.19 15.00

Matrix: Sample Id: **Bottom Composite** 

Date Received:03.27.19 11.50

Date Collected: 03.25.19 08.25

Sample Depth: 0.3 ft

Basis:

Analytical Method: BTEX by EPA 8021B

SCM

SCM

Prep Method: SW5030B

Wet Weight

% Moisture: Date Prep:

Seq Number: 3083682

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 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** 

Soil Matrix:

Date Received:03.27.19 11.50

Lab Sample Id: 619079-006

Date Collected: 03.25.19 08.20

Sample Depth: 0.3 ft

**Analysis Date** 

03.27.19 22.48

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Parameter

Chloride

CHE

Result

15.0

Cas Number

16887-00-6

% Moisture:

Wet Weight

CHE Analyst:

Seq Number: 3083707

Date Prep: 03.27.19 16.00

RL

5.00

Basis:

Units

mg/kg

Dil

1

Flag

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:

ARM

03.28.19 07.00 Date Prep:

Basis:

Wet Weight

ARM Analyst: Seq Number: 3083750

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

Tech: SC

Analyst:

SCM SCM

Date Prep: 03.27.19 15.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	03.28.19 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: C

CHE

03.27.19 16.00

% Moisture:

Basis:

Wet Weight

Analyst: CHE 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

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM 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		





#### 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: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: So

Analyst:

SCM SCM

Date Prep: 03.27.19 15.00

% Moisture: 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 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** 

Soil Matrix:

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 % Moisture:

Tech:

Parameter

Chloride

CHE

Date Prep:

RL

4.97

Result

35.0

Units

mg/kg

Wet Weight

Analyst: Seq Number: 3083707

CHE

Cas Number

16887-00-6

03.27.19 16.00

Basis:

**Analysis Date** Flag Dil

1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

03.27.19 23.28

% Moisture:

Tech: Analyst: ARM ARM

03.27.19 17.00 Date Prep:

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 % Moisture:

Tech: SCM

Analyst:

SCM 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	< 0.00200	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: CF

CHE

03.27.19 16.00 Basis:

% Moisture:

Wet Weight

Analyst: CHE 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

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM 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

03.27.19 15.00

Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

SCM

% Moisture:

Analyst: SCM

Date Prep:

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 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

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	<4.98	4.98	mg/kg	03.27.19 23.41	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM 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		





# 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

Tech: SCM % Moisture:

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

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	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:

Tech: CF

Analyst:

CHE 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	< 5.00	5.00	mg/kg	03.28.19 00.01	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARM 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

03.27.19 15.00

Basis:

Wet Weight

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

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: Date Prep:

Seq Number: 3083682

SCM

Tech:

Analyst:

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

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: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: CHE CHE

Date Prep: 03.27.19 16.00

% Moisture: Basis:

Wet Weight

Seq Number: 3083707

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

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech:
Analyst:

ARM ARM

Date Prep: 03.27.19 12.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	03.27.19 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		





# HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Matrix: Soil Sample Id: E3 (Release Retake)

Date Collected: 03.25.19 08.50 Sample Depth: 0.3 ft

Lab Sample Id: 619079-012

Prep Method: SW5030B

Date Received:03.27.19 11.50

% Moisture:

Tech: SCMSCM Analyst: Basis: Wet Weight Date Prep: 03.27.19 15.00

Seq Number: 3083682

Analytical Method: BTEX by EPA 8021B

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

E300P

E300P

E300P

E300P

03.27.19

Prep Method:

Prep Method:

Prep Method:



#### **QC Summary** 619079

#### HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method: Chloride by EPA 300

Seq Number: 3083706 Matrix: Solid Date Prep:

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

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

Analytical Method: Chloride by EPA 300

E300P Prep Method: 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 Limits %RPD RPD Limit Units LCSD LCSD 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

3083706 Matrix: Soil 03.27.19 Seq Number: Date Prep:

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

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

3083706 Matrix: Soil Seq Number: Date Prep: 03.27.19 619078-012 S MSD Sample Id: 619078-012 SD 619078-012 MS Sample Id: Parent Sample Id:

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

3083707 Matrix: Soil Seq Number: Date Prep: 03.27.19

Parent Sample Id: 618909-012 MS Sample Id: 618909-012 S 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 Result %Rec 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

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

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

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result



Parent Sample Id:

#### QC Summary 619079

#### **HydroChemPSC (PSC)**

North Indian Flats 2b Fed 001

Analytical Method: Chloride by EPA 300

Seq Number: 3083707 Matrix: Soil

619079-006 MS Sample Id: 619079-006 S

Prep Method: E300P

Trep Method: E3001

Prep Method:

Prep Method:

Date Prep:

Date Prep: 03.27.19 MSD Sample Id: 619079-006 SD

TX1005P

03.27.19

TX1005P

Flag

Flag

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

Seq Number: 3083698 Matrix: Solid

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 12:12 982 98 1050 70-135 7 20 03.27.19 12:12 Diesel Range Organics (DRO) < 8.13 1000 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 % 109 70-135 03.27.19 12:12 o-Terphenyl 91 102 %

Analytical Method: TPH By SW8015 Mod

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 70-135 20 < 8.00 95 mg/kg mg/kg 03.28.19 08:06 Diesel Range Organics (DRO) < 8.13 1000 958 96 981 98 70-135 2 20

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 % 97 03.28.19 08:06 o-Terphenyl 106 120 70-135 %

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

Log Difference

[D] = 100\*(C-A) / BRPD = 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 = MS/LCS ResultE = MSD/LCSD Result



#### **QC Summary** 619079

#### **HydroChemPSC (PSC)**

North Indian Flats 2b Fed 001

Analytical Method: TPH By SW8015 Mod

3083698 Matrix: Soil Prep Method: Date Prep: 03.27.19

TX1005P

Parent Sample Id: 619076-001

MS Sample Id: 619076-001 S

MSD Sample Id: 619076-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	9.02	998	903	90	916	91	70-135	1	20	mg/kg	03.27.19 13:10	
Diesel Range Organics (DRO)	< 8.11	998	947	95	956	96	70-135	1	20	mg/kg	03.27.19 13:10	
				/C	ме	» for	Me	n 1		I Inita	Amalyaia	

MS MS MSD Analysis MSD Limits Units **Surrogate** %Rec Flag %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

Seq Number: 3083699 Matrix: Soil

Prep Method: Date Prep:

TX1005P

Parent Sample Id:

Seq Number:

619078-001

MS Sample Id: 619078-001 S

03.27.19 MSD Sample Id: 619078-001 SD

Flag

Flag

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	11.4	999	890	88	901	89	70-135	1	20	mg/kg	03.27.19 22:07
Diesel Range Organics (DRO)	< 8.12	999	923	92	943	95	70-135	2	20	mg/kg	03.27.19 22:07

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
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

Seq Number: 3083750

Matrix: Soil

Prep Method:

TX1005P

Date Prep:

03.28.19

Parent Sample Id: 619079-002

619079-002 S MS Sample Id:

MSD Sample Id: 619079-002 SD

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

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

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

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

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

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result E = MSD/LCSD Result

03.27.19 20:22

Flag



4-Bromofluorobenzene

116

# QC Summary 619079

#### HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

108

70-130

%

Analytical Method:BTEX by EPA 8021BPrep Method:SW 5030BSeq 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	%RP	D RPD Limit	t 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	

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

110

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

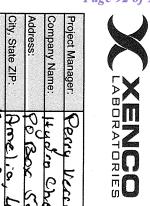
Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		112		70-130	%	03.27.19 21:00
4-Bromofluorobenzene	114		115		70-130	%	03.27.19 21:00

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



XIIINOO	Chain of Custody	tody Work Order No:	
LABORATORIES	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296		)
Новь	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	Lubbock,TX (806)794-1296 70-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page of	$\mathcal{Q}$
anager: Perry Verse t	Bill to: (if different)	Work Order Comments	ķ
Name: 1440 co Chem PSC	Company Name:	Program: UST/PST  PRP Brownfields RRC Superfund	fund
6 Box (234	Address:	State of Project:	
DIP: Ame), a, la, 70340	City, State ZIP:	Reporting:Level III Level III PST/UST TRRP Level IV	₹   
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Name: Weith Indian Per No Wet Ice: Yes No San
Name: Worth Ind. 14th Led 60 Turn Around ANALYSIS REQUEST  Number: Y70. 99( Routine
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Total 200.7 / 6010

200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

Relinquished by: (Signature)

Received by: (Signature)

125/19 9:50 Date/Time

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Repeived by: (Signature)

Date/Time

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Se Ag

SiO2 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg



# Chain of Custody

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State of Project:	}ram: UST/PST	Work Order Comments	www.xenco.com Page	Work Order No: WOOM

Project Manager: Project Manager:	Bill to: (if different)	Work Order Comments
Company Name: HHOCO Chen OSC	Company Name:	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Address: Ph Box 524	Address:	State of Project:
city, State ZIP: Amelia, La, 70346	City, State ZIP:	Reporting:Level II  Level III PST/UST TRRP Level IV
	Email: Perry, vercete Hudro chem Ac, ton	Deliverables: EDD ☐ ADaPT ☐ Other:
Project Name: //orth 4001.6.7481501 From 1	Turn Around ANALYSIS REQUEST	QUEST Work Order Notes
Project Number: メナウ・マもく Routine	tine	
P.O. Number: 217.03-26.2019 Rush:	h: / //a	
\ 	Due Date: /	
SAMPLE RECEIPT Jamp Blank: Yes (No ) Wet ice	Wet Ice: (Yes) No	
Temperature (°C): 0.5000 Thermometa la	9	
Received Intact: Yes No		
Cooler Custody Seals: Yes No N/A Correction Factor:	$\frac{1}{\beta}$	TAT starts the day received by the
Sample Custody Seals: Yes <b>(</b> 0) N/A Total Containers:		lab, if received by 4:30pm
Sample Identification Matrix Sampled Sampled	Number St. 16	Sample Comments
EI (Release XIII) 3721/199:00A	03,	
ED (Release) AND SIDMINS (SSP)	3	
15.3 (Prelease ) Repair 5 8/2/1/9/8:50A	0.31 1 1 1 1	
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# 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 Checklis	st	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 container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

Analyst:		PH Device/Lot#:		
	Checklist completed by:	Britanna Teel	Date: 03/27/2019	
	Checklist reviewed by:	Brand Ritcherson	Date: <u>03/27/2019</u>	



# Certificate of Analysis Summary 619714

HydroChemPSC (PSC), Morgan City, LA

**Project Name: North Indian Flat 26 Fed 1** 



**Project Id:** XTO-995

**Contact:** 

**Project Location:** 

Perry Verret

**Date Received in Lab:** Tue Apr-02-19 11:45 am **Report Date:** 03-APR-19

Project Manager: Brandi Ritcherson

	Lab Id:	619714-0	Ω1	619714-0	02		
	Lab la:	619/14-0	01	619/14-00	02		
Analysis Requested	Field Id:	North Bottom Gra	b (Retake)	South Wall Grab	(Retake)		
Anaiysis Requesieu	Depth:	0-3 ft		0-3 ft			
	Matrix:	SOIL		SOIL			
	Sampled:	Mar-29-19 10:00		Mar-29-19 1	3:50		
TPH By SW8015 Mod	Extracted:	Apr-02-19 16:00		Apr-02-19 1	6:00		
	Analyzed:	Apr-03-19 (	Apr-03-19 00:39		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.

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Version: 1.%

Byand Rotinson

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

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# **Sample Cross Reference 619714**



# HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id	Matrix	<b>Date Collected</b>	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

Version: 1.%

#### **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

04.02.19 16.00

Sample Depth: 0 - 3 ft

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep:

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

4

% 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





Page 103 of 132

- 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.
- RPD exceeded lab control limits.
- The target analyte was positively identified below the quantitation limit and above the detection limit.
- Analyte was not detected.
- 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.

Reporting Limit RL

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

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

Method Detection Limit DL

NC Non-Calculable

BLK Method Blank **SMP** Client Sample

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

Flag



Seq Number:

#### **QC Summary** 619714

#### HydroChemPSC (PSC)

North Indian Flat 26 Fed 1

Analytical Method: TPH By SW8015 Mod

3084425 Matrix: Solid

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

TX1005P Prep Method:

Date Prep: 04.02.19

LCSD Sample Id: 7674881-1-BSD

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

Surrogate %Rec %Rec Flag Flag Date Flag %Rec 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

TX1005P Prep Method: Seq Number: 3084425 Matrix: Soil Date Prep: 04.02.19

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

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

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

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

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



Project Manager: Company Name: Address:

# **Chain of Custody**

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

Bill to: (if different) Company Name:

Address:

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

Work Order No:

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

으

State of Project:

Relinquished by: (Signature)  Received by: (Signature)  Received by: (Signature)	les con shall r	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Circle Method(s) and Metal(s) to be analyzed TCI P / SPI P 6010 - SRCRA		South WALL Drass (Schoke) S 3/28/19 1: SCD 0.3	S 3/29/19/10:00A	Sample Identification Matrix Sampled Sampled Depth	Cooler Custody Seals: Yes No N/A Correction Factor: O/   Sample Custody Seals: Yes No N/A Total Containers:	Thermomete(DC)	SAMPLE RECEIPT   Temp Blank: Yes (No)   Wet Ice: Yes No	01/10339 2019	# <b>X70-99</b> 5 Ro	1 ( ( ) Turn	Email:	City, State ZIP: //me/la, Lu. 20340 City, State ZIP:
Date/Time Relinquished by: (Signature)	n client company to Xenco, its affiliates and subcontractors. I submitted to Xenco, but not analyzed. These terms will be en	Sh As Ba Be B Cd Ca Cr Co Cl		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		T,	PH	ntainers				ANALY	to hydrochem	
ture) (A Received by: (Signature) Date/Time    Date/Time   1/10   1/10   1/503	ractors. It assigns standard terms and conditions osses are due to circumstances beyond the control will be enforced unless previously negotiated.	lo Ni K Se Ag Si				Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm					EST Work Order Notes	Deliverables: EDD ☐ ADaPT ☐ Other:	Reporting:Level III  PST/UST TRRP Level IV

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.
- 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:** 04/02/2019 11:45:00 AM

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

Work Order #: 619714

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?	r	Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicat	Yes	
#16 All samples received within hold time	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		the refrigerator
Analyst:  Checklist completed by:	PH Device/Lot#:	Date: 04/02/2019
Checklist reviewed by:	Brianna Teel  Brand Rotinson  Brandi Ritcherson	Date: 04/02/2019

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** 

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		<i>x</i> :	Rel	ease Notifi	catio	on and Co	orrective A	Actio	n 🖁				
NAB1428133861						<b>OPERA</b>	TOR		☐ Initial Report ☐ Final Repo				
Name of Company: BOPCO, L.P. 200737					Contact: To	ny Savoie							
				bad, N.M. 8822	0		No. 575-887-73				\2\\ 		
Facility Na	me: North	Indian Flats	26 Fede	ral #1		Facility Typ	e: Exploration	and Pr	oduction				
Surface Ov	vner: Feder	ral		Mineral	Owner	r: Federal API No. 30-015-27556							
			-7/1116		227				1				
LOCATIO								T = -		T 6	*		
Unit Letter Section Township Range Feet from the 26 21S 28E 2150				55 A 10 A	Nort	h/South Line h	outh Line Feet from the Eas		West Line	County Eddy			
				Latitude N 32	2.4525	37 Longitude	W 104.05464	8					
				NAT		E OF RELI	EASE			ă!	7 8		
Type of Rele	ase: Crude	oil and Produ	iced water			L.	Release: 2 bbls obls produced water			Recovered: 1 luced water	bbl crude oil and 4		
Source of Re	lease: Flang	ge gasket on w	vater trans	fer nump.			lour of Occurrent			overy: 9/24/14 at			
		,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,		р.						ately 2:20 p.m.			
Was Immedia	ate Notice C					If YES, To Whom?							
			Yes [	No Not Re	equired	M. Bratche	r, H. Patterson an	id Jim A	Amos				
By Whom? T						Date and Hour: 9/24/14 at 2:46 p.m.							
Was a Watercourse Reached?  ☐ Yes ☒ No					If YES, Volume Impacting the Watercourse.								
16 - 11/.4						1							
If a Watercou	nac was mit	Jacied, Descri	oe runy.										
				0						-			
Describe Caus	se of Proble	m and Remed	lial Action	Taken.* A flange	e gaske	t failed on the	water transfer pu	mp. The	flange gas	ket was replac	ced.		
Describe Area	Affected a	nd Cleanup A	ction Take	en.* The spill affe	ected ar	proximately 4	50 sq. ft. of earth	en cont	ainment ber	m around the	water storage		
tank. The spill	l area will b	e remediated	following	the NMOCD and	BLM	guidelines for s	spills and releases	S.	3				
		1.7									19		
Lhereby certifi	v that the in	formation give	en above	is true and comple	ate to t	he heet of my k	mourledge and up	doretan	d that aurou	ant to NIMOC	TD miles and		
regulations all	operators a	re required to	report and	Vor file certain re	lease n	otifications and	d perform correct	ive acti	ons for relea	ases which ma	av endanger		
public health of	or the enviro	nment. The a	acceptance	of a C-141 repor	t by the	e NMOCD mai	rked as "Final Re	port" do	es not relie	ve the operato	or of liability		
should their op	erations ha	ve failed to ac	dequately i	nvestigate and re-	mediate	e contamination	n that pose a thre	at to gre	ound water.	surface water	, human health		
or the environi federal, state, c	ment. In add	dition, NMO( s and/or regula	D accepts	ance of a C-141 re	eport d	oes not relieve	the operator of re	esponsit	oility for cor	mpliance with	any other		
icurai, state, c	or rocal laws	and/or regul	ations,		T		OIL CONS	EPV.	ATION I	DIVISION			
		c L			- 1		OIL CONS	LKVA	THON	<u> </u>	30		
Signature: 1 que Dance						- 10 4/1							
Printed Name:	Tony Savoi	e e			1	Approved by E	nvirenne By-se	CIME!	(A) KARA	100_			
Tinted Paine.	Tony Savoi				-				-	Alla			
Title: Waste M	anagement.	and Remediat	tion Specia	alist	/	Approval Date:	1018114	E	xpiration Da	ate:NIA			
E-mail Address	s: tasavoie@	basspet.com			1	Conditions of A	nnroval						
/		/					r O.C.D. Rule	c 2 G	uidalina	Attached [	]		
Date: 101	7/14			32-556-8730	UB	MIT REME	DIATION PRO	DOS!	J NO	Ni 			
ttach Additio	nal Sheets	If Necessar	У		ATE	R THAN:_	PIATION PRO	. 00		nn	0 1612		
			18			1000			•5	/ K	0-2523		

District J
1625 N. French Dr., Hobbs, NM 88240
District II
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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:	XTO Energy, Inc		0	OGRID: 5380			
Contact Name: Ky	le Littrell			C	Contact Telephone: (432)-221-7331		
Contact email: Kyle_Littrell@xtoenergy.com					Incident #:		
Contact mailing add	lress 522 W. Mermod,	Suite 704 Carlsba	ad, NM	88220			
Latitude 32.452537		Location (NAD 83 in de			-104.054648		
Site Name North I	ndian Flats 26 Federal	#1		Site Type	Exploration and Production		
Date Release Discov	ered 9/24/2014			API# (if ap	plicable) 30-015-27556		
Unit Letter   Sect	on Township	Range		Cou	nty		
G 26	21S	28E	Eddy	/			
M Crude Oil  ☑ Produced Water	volume Released Volume Release	ed (bbls) 2			Release  justification for the volumes provided below)  Volume Recovered (bbls) 1  Volume Recovered (bbls) 4		
Is the concentration of dissolved chlorid produced water >10,000 mg/l?				in the	☐ Yes ☐ No		
Condensate	Volume Release	d (bbls)			Volume Recovered (bbls)		
☐ Natural Gas	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (describe)	Volume/Weight	Released (provid	e units)		Volume/Weight Recovered (provide units)		
Cause of Release  A flange gasket faile earthen containment	d on the water transfer berm around the water	pump. The flange storage tank.	e gasket	was replace	ed. The spill affected approximately 450 sq. ft. of		

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

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?  N/A
19.15.29.7(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 man engille	_
The responsible p	earty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the relea	ase has been stopped.
l <u></u>	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 rec	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
public health or the environme	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 a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	141 report does not refleve the operator of responsibility for compliance with any other rederat, state, or local laws
Printed Name:Kyle	Littrell Title: _SH&E Supervisor
Signature:	Date: 8/28/2019
email: Kyle Littrell@xtoen	Telephone: <u>432-221-7331</u>
OCD Only	
Received by:	Date:

## 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.

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 <b>not</b> 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 ver-	tical extents of soil

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soi 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 ⅓-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		

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: Select	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-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	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 OD	OC 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 o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coefficient Name:  Kyle Littrell  Signature:	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in						
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/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.						
Closure Approved by:	Date:						
Printed Name:	Title:						

District I 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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

JAN 2 1 2015 Submit 1 Copy to appropriate District Office in RECEPPED ce with 19.15.29 NMAC.

State of New Mexico Energy Minerals and Natural Resources

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

#### Release Notification and Corrective Action

NAB15						<b>OPERA</b>	TOR		Initi	al Report	☐ Final	Rep
		OPCO, L.P.		60737		Contact: Tony Savoie						
				bad, N:M. 88220	)	Telephone No. 575-887-7329						
Facility Nai	ne: North	Indian Flats	26 Feder	ral #1	" ()	Facility Typ	pe: Exploration	and Pr	oduction			
Surface Owner: Federal Mineral Owner					wner:	Federal			API No	5. 30-015-27	556	
				LOCA	TIO	N OF RE	LEASE			20		
Unit Letter G	Section 26	Township 21S	Range 28E	Feet from the 2150		/South Line	Feet from the 1980	East/ East	West Line	County Eddy	310	-3.0
is in		20		Latitude N 32.	45253	7 Longitude	W 104.054648					
				NAT	URE	OF RELI	EASE			0.000		
Type of Relea	se: Produc	ed water					Release: 7 bbls			Recovered: 4 l	bbls produced	
Source of Rel	ease: Air El	liminator			-	Date and H	vater our of Occurrence	e	Date and	Hour of Disco	overy: 1/12/1	4
						1/12/14/17	e unknown	27		ately 1:17 p.m		5
Was Immedia	te Notice G	iven?	Yes 🗌	No 🛛 Not Rec	quired	If YES, To M. Bratche	Whom? r, H. Patterson an	d Jim A	amos			
By Whom?		*BOCOMPAN		A STATE OF THE STA		Date and H		11.22				
Was a Waterc	ourse Reacl	hed?	Yes 🛚	No		If YES, Vo	lume Impacting th	ne Wate	ercourse.			
If a Watercour	se was Imp	acted, Descri	be Fully.*					112			_	
						(A)						
Describe Caus	e of Probler	m and Remed	ial Action	Taken.* An air el	iminato	or on the water	r transfer pump fa	iled, th	e part was r	eplaced.		-
Describe Area	Affected ar	nd Cleanup A	ction Take	en.* The spill affect	ted app	proximately 4:	50 sq. ft. of earthe	en conta	ainment ben	m around the	water storage	
tank. Same are	a impacted	as previous sp	oill on 9/2	4/14, reference spi	II repoi	rt #2RP-2523.	The spill area wil	l be rer	nediated fol	lowing the N	MOCD and F	зLМ
guidelines for:	spriis and re	ricases.		P								
I hereby certify	that the in	formation give	en ahove i	s true and complet	te to the	a hast of mul	naviledge and un	darctan	d that guess	ant to NIMOC	'D sulas sad	_
regulations all	operators ar	re required to	report and	Vor file certain rele	ease no	tifications and	l perform correcti	ve actio	ons for relea	ises which ma	av endanger	
public health oi	the enviro	nment. The a	cceptance	of a C-141 report	by the	NMOCD mar	ked as "Final Ren	ort" do	es not relie	ve the operator	or of liability	
or the environm	erations nav ient. In add	lition, NMOC	equatery in D accepta	nvestigate and rem ince of a C-141 rep	iediate oort doe	contamination es not relieve :	n that pose a threa the operator of re-	t to gro sponsih	und water, :	surface water	, human healt any other	ņ
federal, state, o	r local laws	and/or regula	itions.									
		~					OIL CONSI	ERVA	ATION D	DIVISION		
Signature:	Ou >	Danie							, /	1		
					A <sub>1</sub>	pproved by E	nvironmental Spe	cialist:	17	//,		
Printed Name:	ony Savore				+-		1 1.	- t	Tu	un		-
tle: Waste Management and Remediation Specialist			A	Approval Date: 1/23/15 Expiration Date: NA								
-mail Address:	tasavoie@	basspet.com			Co	onditions of A	pproval:		la la	Augabed -	7	
Date: 1/2	1/15		Dhone: 4	32-556-8730	Rem	ediation po	er O.C.D. Rule	es & C	uideline	Strached L	1	
ttach Addition		If Necessary		14-330-8/30	JUB	MIT REME	2/23/15	POS	AL NO			
36	5.10003	1 10000001	,	*	LAIL	in inani_	2/20113			28	P-2150	Ì

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**

Responsible Party: X10 Energy,	Inc		OGRID: 5380	
Contact Name: Kyle Littrell			Contact Telephone: (432)-221-7331	
Contact email: Kyle_Littrell@xto	energy.com		Incident #:	
Contact mailing address 522 W. M.	Iermod, Suite 704 Carlsba	ad, NM 88220		
	Location	of Release	e Source	
Latitude 32.452537				
Site Name North Indian Flats 26	Federal #1	Site Ty	pe Exploration and Production	
Date Release Discovered 1/12/20	15	API# (	if applicable) 30-015-27556	
Unit Letter   Section   Town	ship Range		County	
G 26 21S	28E	Eddy		
		d Volume of	cific justification for the volumes provided below)  Volume Recovered (bbls)	
□ Produced Water Volume	Released (bbls) 7		Volume Recovered (bbls) 4	
	oncentration of dissolved of water >10,000 mg/l?	chloride in the	☐ Yes ☐ No	
☐ Condensate Volume	Released (bbls)		Volume Recovered (bbls)	
☐ Natural Gas Volume	Released (Mcf)		Volume Recovered (Mcf)	
Other (describe) Volume	Weight Released (provid	le units)	Volume/Weight Recovered (provide units)	
Cause of Release			'	
An air eliminator on the water transfer pump failed, the part was replaced. The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. The area impacted is the same as previous spill on 9/24/2014, reference spill report 2RP-2523.				

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 19.15.29.7(A) NMAC?	N/A
19.13.29.7(A) INVIAC	
☐ 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 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 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:
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 re public health or the environme failed to adequately investigat	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 the 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 Littrell@xtoen	nergy.com Telephone: 432-221-7331
OCD Only	
Pagainad hy	Deter
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?	>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 <b>not</b> 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 vertontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	cical extents of soil

containmation associated with the release have been determined. Refer to 19.15.29.11 NWAC for specifics.	
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>	

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-2759	
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.	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: Cle Filler	Date:8/28/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:(432)-221-7331
OGD 0.1	
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	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 photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	OC 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 reshuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulates reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including notification to the Coaccordance with 19.15.29.13 NMAC including notification wit	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
	Title:SH&E Supervisor
Signature:	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 remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

## NM OIL CONSERVATION

ARTESIA DISTRICT

District 1
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

RECEIVED to appropriate District Office in RECEIVED cordance with 19,15.29 NMAC.

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

Sania	re, INIVI 87303			
Release Notification and Corrective Action				
DABITO1052774.	OPERATOR   Initial Report   Final Report			
Name of Company: BOPCO, L.P. 200131	Contact: Amy Ruth			
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 Owner: Federal Mineral Owner	: Federal API No. 30-015-27556			
LOCATIO	ON OF RELEASE			
	h/South Line   Feet from the   East/West Line   County			
G 26 21S 28E 2100 Nort	h 1850 East Eddy			
Latitude 32.452595°	Longitude104.054825°			
NATURI	E 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 time unknown 12/22/2016 10 am			
Was Immediate Notice Given?	If YES, To Whom?			
☐ Yes ☐ No ☒ Not Required				
By Whom? N/A	Date and Hour N/A			
Was a Watercourse Reached?  ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.  N/A			
	1771			
If a Watercourse was Impacted, Describe Fully.* N/A				
Describe Cause of Problem and Remedial Action Taken.*	do were released to the swall leasting. The failed cheek walve tune replaced			
The body of a check valve developed a plithole due to corrosion and thur	ds were released to the well location. 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	s were immediately recovered			
The loak affected 2751 square test of cantelle pad and free standing fluids	s were infinediately recovered.			
	NR (OOD			
	the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger			
	he NMOCD marked as "Final Report" does not relieve the operator of liability			
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to ground water, surface water, human health			
or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	does not relieve the operator of responsibility for compliance with any other			
occini, state, of the land of the control of	OIL CONSERVATION DIVISION			
	•			
Signature I ud	Approved by Environmental Specialist & Beauty			
Printed Name: Amy C. Ruth	Approved by Environmental Specialist			
Title: EHS Environmental Supervisor	Approval Date: 11017 Expiration Date: NA			
E-mail Address: ACRuth@basspet.com	Conditions of Approval:			
varies VVABARONIUS Name See	Su attached Attached			
Date: 1/9/2017 Phone: 432-661-0571	De universe			
Attach Additional Sheets If Necessary	200 4066			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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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				(	Contact Telephone: (432)-221-7331			
Contact ema	Contact email: Kyle_Littrell@xtoenergy.com				I	ncident #:		
Contact mai	ling address	522 W. Mermod,	Suite 704 Carlsba	d, NM	88220			
Location of Release Source  Latitude 32.452595								
Site Name	North Indian	Flats 26 Federal	#1		Site Type	Exploration and Production		
Date Release	Discovered	12/22/2016			API# (if a	pplicable) 30-015-27556		
Unit Letter	Section	Township	Range		Coı	inty		
G	26	21S	28E	Eddy	/			
	Material(s) Released (Select all that apply and attach calculat  ☐ Crude Oil Volume Released (bbls)  ☐ Produced Water Volume Released (bbls) 21				ions or specif	volume Recovered (bbls)  Volume Recovered (bbls)  Volume Recovered (bbls) 5		
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	hloride	in the Yes No			
Condensa	ite	Volume Release				Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units				e units)	ts) 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 res	sponsible party co	nsider this a major release?
☐ Yes ⊠ No			
If YES, was immediate no N/A	otice given to the OCD? By whom? To	whom? When ar	nd by what means (phone, email, etc)?
	Initial	Response	
The responsible p	varty must undertake the following actions immedi	iately unless they could	d 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 a	and the environme	ent.
Released materials ha	ve been contained via the use of berms of	or dikes, absorben	at pads, or other containment devices.
-	coverable materials have been removed above have not been undertaken, expla		propriately.
has begun, please attach a within a lined containment	a narrative of actions to date. If remedit area (see 19.15.29.11(A)(5)(a) NMAC	ial efforts have be b), please attach all	mediately after discovery of a release. If remediation een successfully completed or if the release occurred l information needed for closure evaluation.
regulations all operators are r public health or the environm failed to adequately investiga	required to report and/or file certain release net. The acceptance of a C-141 report by that and remediate contamination that pose a t	notifications and per ne OCD does not rel threat to groundwate	vieldge and understand that pursuant to OCD rules and rform corrective actions for releases which may endanger lieve the operator of liability should their operations have er, surface water, human health or the environment. In or compliance with any other federal, state, or local laws
Printed Name:Kyle	Littrell	Title: _SH&	&E Supervisor
Signature:	Lewell	Date: _8/28	3/2019
email: Kyle Littrell@xtoe	nergy.com	Telephone:	432-221-7331
OCD Only			
Received by:		Date:	<del></del> :

## 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? $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$					
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 <b>not</b> 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.					
<ul><li>☐ Field data</li><li>☐ Data table of soil contaminant concentration data</li></ul>					
Depth to water determination					
<ul> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> </ul>					
Photographs including date and GIS information					
Topographic/Aerial maps					

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.

☐ Laboratory data including chain of custody

Incident ID		
District RP	2RP-4066	
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.	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	
OCD Only	
Received by:	Date:

## State of New Mexico Oil Conservation Division

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.

Closure Report Attachment Checklist: Each of the following	items must be inc	luded in the closure report.					
A scaled site and sampling diagram as described in 19.15.29	0.11 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 OD	OC District office n	nust be notified 2 days prior to final sampling)					
☐ Description of remediation activities							
	ain release notificate of a C-141 report by the emediate contaminate of a C-141 report do lations. The responditions that exist OCD when reclamateTitle:	ions and perform corrective actions for releases which we 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 sed prior 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 remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	water, human heal						
Closure Approved by:	Date: _						
Printed Name:	Title:						

#### OCD Rec'd:08/09/18

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.

Danta	10,1414107505					
Release Notification and Corrective Action						
	<b>OPERATOR</b>					
Name of Company: XTO Energy BOPCO OGRID: 260737	Contact: Kyle Littrell					
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-7					
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration	and Production				
Surface Owner: Federal Mineral Owner	r: Federal	API No: 30-015-27556				
LOCATIO	ON OF RELEASE					
Unit Letter Section Township Range Feet from the Nor	rth/South Line   Feet from the	East/West Line   County				
G 26 21S 28E 2150 Nor		East Eddy				
<b>Latitude</b> 32.452295I	Longitude103.054719	NAD83				
	E OF RELEASE					
Type of Release Oil	Volume of Release 7bbl oil	Volume Recovered 4bbl oil				
Source of Release	Date and Hour of Occurrence					
Oil tank	7/26/2018, 10:00 AM	7/26/2018, 10:00 AM				
Was Immediate Notice Given?  ☐ Yes ☐ No ☒ Not Require	If YES, To Whom? N/A					
By Whom? N/A	Date and Hour: N/A					
Was a Watercourse Reached?	If YES, Volume Impacting N/A	the Watercourse.				
	18/21	N/A				
If a Watercourse was Impacted, Describe Fully.* N/A						
14/24						
	Describe Cause of Problem and Remedial Action Taken.*					
Crew was attempting to remove flowline from oil tank on location. Upo release of oil into earthen containment. Vacuum truck was dispatched at						
oil was returned to oil tank.	nd recovered an standing maid. L	ratinaged connection was repaired and air recovered				
Describe Area Affected and Cleanup Action Taken.*						
All fluid was contained to earthen berm. Vacuum truck was dispatched a	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						
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t	notifications and perform correct the NMOCD marked as "Final R.	tive actions for releases which may endanger				
should their operations have failed to adequately investigate and remedia	ate contamination that pose a thre	eat to ground water, surface water, human health				
or the environment. In addition, NMOCD acceptance of a C-141 report						
federal, state, or local laws and/of regulations.						
	OIL CONS	SERVATION DIVISION				
Signature ( Luy ( Luy (						
	Approved by Environmental Sp	pecialist:				
Printed Name: Amy C. Ruth		Maria Pruett				
Title: Environmental Coordinator	Approval Date: 08/10/18	Expiration Date: N/A				
E-mail Address: Amy_Ruth@xtoenergy.com	Conditions of Approval:					
		Attached _				
Date: 8/9/2018 Phone: 575-689-3380		2RP-4912				

\* Attach Additional Sheets If Necessary

I#:nMAP1822267131 A#:pMAP1822266963 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 ema	il: Kyle_Lit	ttrell@xtoenergy.c	com		I	Incident #:		
Contact mail	ling address	522 W. Mermod,	Suite 704 Carlsba	ıd, NM	88220			
Location of Release Source								
Latitude 32.4	52295		(NAD 83 in de	ecimal de		e -104.054719		
Site Name	North Indian	Flats 26 Federal	#1		Site Type	e Exploration and Production		
Date Release	Discovered	7/26/2018			API# (if a	applicable) 30-015-27556		
Unit Letter	Section	Township	Range		Cou	unty		
G	26	21S	28E	Eddy	/			
	Material	Federal Tr	Nature and	d Vol	ume of	fic justification for the volumes provided below)  Volume Recovered (bbls) 4		
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)		
		Is the concentrat	ion of dissolved c >10,000 mg/l?	hloride	e in the Yes No			
Condensa	te	Volume Release	d (bbls)			Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)				Volume/Weight Recovered (provide units)				
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		
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Was this a major	If YES, for what reason(s) does the re-	sponsible par	rty 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? Wh	hen and by what means (phone, email, etc)?
	Initial	Respons	se
The responsible p	varty must undertake the following actions immed	liately unless they	ey could create a safety hazard that would result in injury
☐ The source of the relea	ase has been stopped.		
The impacted area has	s been secured to protect human health a	and the enviro	ronment.
Released materials ha	ve been contained via the use of berms	or dikes, abso	sorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed	l and manage	ed appropriately.
If all the actions described	above have not been undertaken, expla	ain why:	
		•	
Per 19.15.29.8 B. (4) NMA	AC the responsible party may commend	ce remediation	on immediately after discovery of a release. If remediation
has begun, please attach a	narrative of actions to date. If remed	ial efforts hav	ave been successfully completed or if the release occurred
within a lined containment	area (see 19.15.29.11(A)(5)(a) NMAC	), please attac	ach all information needed for closure evaluation.
			knowledge and understand that pursuant to OCD rules and
			and perform corrective actions for releases which may endanger not relieve the operator of liability should their operations have
failed to adequately investigate	te and remediate contamination that pose a t	threat to ground	ndwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the operator	of responsibility	ility for compliance with any other federal, state, or local laws
_			
Printed Name:Kyle	Littrell	Title:	_SH&E Supervisor
Signature:	attet	Date:	_8/28/2019
email: Kyle Littrell@xtoer	nergy.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	

## Site Assessment/Characterization

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

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

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 no 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 o and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat 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 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 OD	C District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
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, at a summan 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 estore, 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  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 emediate 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:		
rinted Name:			

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

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 8336

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 8336
Wildiana, 177 10101	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimor	None	6/24/2022