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
OCT 08 2014
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1428133861

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude N 32.452537 **Longitude** W 104.054648

NATURE OF RELEASE

Type of Release: Crude oil and Produced water	Volume of Release: 2 bbls crude oil and 8 bbls produced water	Volume Recovered: 1 bbl crude oil and 4 bbls produced water
Source of Release: Flange gasket on water transfer pump.	Date and Hour of Occurrence 9/24/14 time unknown	Date and Hour of Discovery: 9/24/14 at approximately 2:20 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? M. Bratcher, H. Patterson and Jim Amos	
By Whom? Tony Savoie	Date and Hour: 9/24/14 at 2:46 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A flange gasket failed on the water transfer pump. The flange gasket was replaced.

Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. The spill area will be remediated following the NMOCD and BLM guidelines for spills and releases.

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

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Management and Remediation Specialist

E-mail Address: tasavoie@basspet.com

Date: 10/7/14 Phone: 432-556-8730

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: 10/8/14 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/8/14

* Attach Additional Sheets If Necessary

2RP-2523

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452537 Longitude -104.054648
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 9/24/2014	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1
☒ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A flange gasket failed on the water transfer pump. The flange gasket was replaced. The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 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	

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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 05/12/2020

Printed Name: Bradford Billings Title: E.Spec.A

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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
JAN 21 2015
RECEIVED

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nAB1502633538

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude N 32.452537 **Longitude** W 104.054648

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 7 bbls produced water	Volume Recovered: 4 bbls produced water
Source of Release: Air Eliminator	Date and Hour of Occurrence 1/12/~~14~~ 15 time unknown	Date and Hour of Discovery: 1/12/~~14~~ 15 approximately 1:17 p.m.
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? M. Bratcher, H. Patterson and Jim Amos	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* An air eliminator on the water transfer pump failed, the part was replaced.

Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. Same area impacted as previous spill on 9/24/14, reference spill report #2RP-2523.The spill area will be remediated following the NMOCD and BLM guidelines for spills and releases.

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

Signature: Tony Savoie	OIL CONSERVATION DIVISION
Printed Name: Tony Savoie	Approved by Environmental Specialist:
Title: Waste Management and Remediation Specialist	Approval Date: 1/23/15 Expiration Date: NA
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 2/23/15 Attached ☐
Date: 1/21/15 Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

2RP-2759

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: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452537 Longitude -104.054648
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 1/12/2015	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

Closure

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

Closure Report Attachment Checklist: ***Each of the following 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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 05/12/2020

Printed Name: Bradford Billings Title: E.Spec.A

NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 09 2017
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nAB1701052774 2000737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2100	North	1850	East	Eddy

Latitude 32.452595° **Longitude** -104.054825°

NATURE 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: 12/22/2016 time unknown	Date and Hour of Discovery: 12/22/2016 10 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
The body of a check valve developed a pinhole due to corrosion and fluids 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 were immediately recovered.

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

Signature:

Printed Name: Amy C. Ruth

Title: EHS Environmental Supervisor

E-mail Address: ACRuth@basspet.com

Date: 1/9/2017 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 1/10/17 Expiration Date: N/A

Conditions of Approval: See attached

Attached ☐

* Attach Additional Sheets If Necessary

2RP-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 email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452595 Longitude -104.054825
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 12/22/2016	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 21	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4066
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: 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-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.***

☒ 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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 05/12/2020

Printed Name: Bradford Billings Title: E.Spec/A

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: XTO Energy BOPCO OGRID: 260737	Contact: Kyle Littrell
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-7331
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No: 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude 32.452295 **Longitude** -103.054719 NAD83

NATURE OF RELEASE

Type of Release Oil	Volume of Release 7bbl oil	Volume Recovered 4bbl oil
Source of Release Oil tank	Date and Hour of Occurrence 7/26/2018, 10:00 AM	Date and Hour of Discovery 7/26/2018, 10:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank.

Describe Area Affected and Cleanup Action Taken.*
All fluid was contained to earthen berm. Vacuum truck was dispatched and recovered 4bbl standing fluid from berm. An environmental contractor has been retained to assist with remediation efforts.

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

Signature:

Printed Name: Amy C. Ruth

Title: ~~Environmental~~ Coordinator

E-mail Address: Amy_Ruth@xtoenergy.com

Date: 8/9/2018 Phone: 575-689-3380

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Maria Pruett

Approval Date: 08/10/18 Expiration Date: N/A

Conditions of Approval:

Attached ☐

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 email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452295 Longitude -104.054719
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 7/26/2018	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 7	Volume Recovered (bbls) 4
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 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	

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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4912
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: 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 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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 05/12/2020

Printed Name: Bradford Billings Title: E.Spec.A

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 bradford.billings@state.nm.us
Mike Bratcher- NMOCD mike.bratcher@state.nm.us
Jim Amos- BLM jamos@blm.gov
Crystal Weaver- BLM caweaver@blm.gov
Deborah McKinney- BLM dmckinne@blm.gov

TABLE OF CONTENTS

Section **Page**

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**
- 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.

HydroChemPSC

Sampling Release Tables

Phase #1- Reference 2RP-4912

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

SAMPLE LOCATIONS	SAMPLE DEPTH	SAMPLE DATE	SOIL STAUTS	METHOD: EPA 8021B					METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	EPA 300	Comments
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	EHTYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Lg)	TOTAL BETEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	MRO C_{28}-C_{35} (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 C_6-C_{35} (mg/Kg)	EPA 300	Comments
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	EHTYL-BENZENE	TOTAL XYLENES	TOTAL BETEX	GRO C_6-C_{12}	DRO C_{12}-C_{28}	MRO C_{28}-C_{35}		CHLORIDE (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

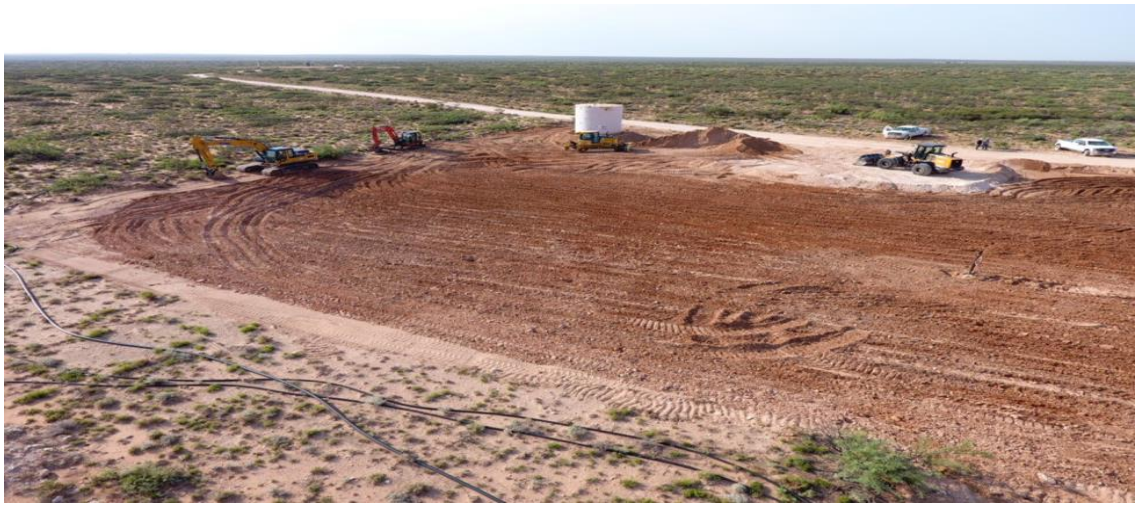
Appendix B – Certificate of Laboratory Analysis Report #619714 4/3/19 (2-Retakes)

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

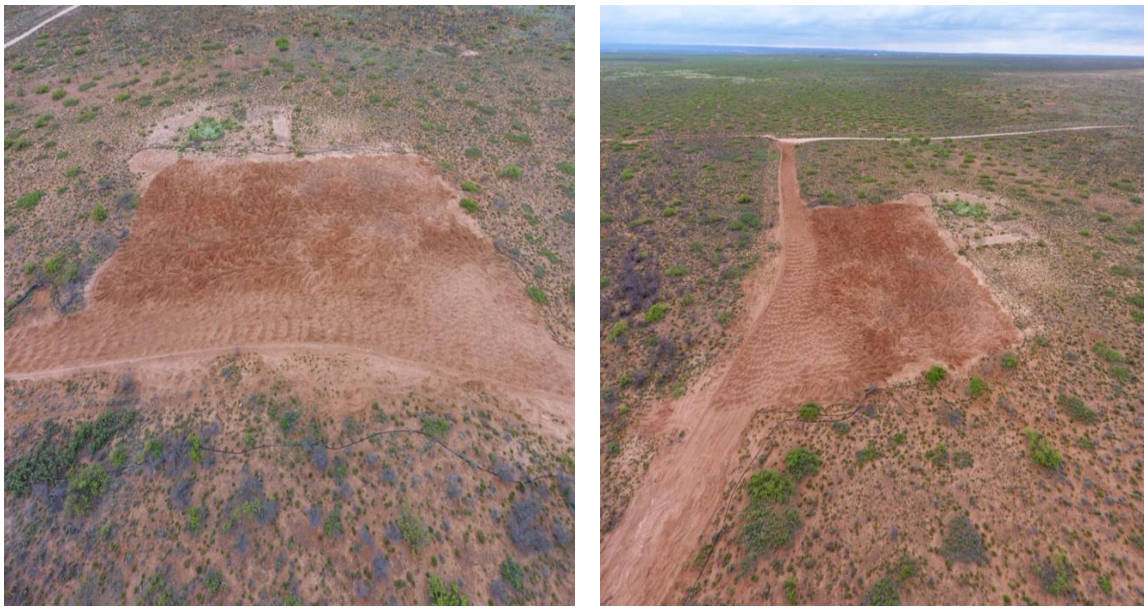
Appendix D – NMOCD C-141 Notifications

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

Closure Photo Gallery



Final Aerial View of Location



Post Remedial Closure Summary

Following Remediation, this final summary report was prepared to document the project in its entirety for **XTO Energy** to submit a no further action release request to the New Mexico Oil Conservation Division (NMOCD). Additional submittal may be requested by the Bureau of Land Management (BLM). This final closure report documents the execution of the remedial services performed. An aerial map illustrates the area affected by the spill occurrence; locations of remedial sampling to delineate the impacts, and sampling locations to confirm successful remediation. Areas of contamination identified in the analytical process were vertically and horizontally delineated. Post-remediation sampling data indicates the site meets compliance with NMOCD standards and confirms no remaining soils exceeds elevated contamination levels. **Note:** No onsite bioremediation or other methods i.e. soil blending/mixing was performed on the project. Contaminated soil was transported offsite to an approved permitted landfill for disposal. Topsoil media was dressed, and dozer bladed for resurfacing of the site upon completion.

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

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

Certificate of Analysis Summary 593503

PSC Industrial Outsourcing LP, Gibson, LA

Project Name: XTO NFI #26

Project Id: 217.1.711.0003.J0032
Contact: Perry Verret
Project Location:

Date Received in Lab: Wed Jul-25-18 11:00 am
Report Date: 26-JUL-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	593503-001		593503-002		593503-003		593503-004		593503-005		593503-006	
	Field Id:	A-1		B-1		C-1		D-1		E-1		F-1	
	Depth:	0-6		0-6		0-6		0-6		0-6		0-6	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-24-18 11:00		Jul-24-18 11:10		Jul-24-18 11:20		Jul-24-18 11:30		Jul-24-18 11:40		Jul-24-18 11:50	
Chloride by EPA 300	***Extracted:***	Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30	
	Analyzed:	Jul-25-18 19:08		Jul-25-18 19:24		Jul-25-18 19:29		Jul-25-18 19:35		Jul-25-18 19:40		Jul-25-18 19:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.00	5.00	103	4.97	66.8	5.00	182	4.95	46.2	4.95	50.1	4.95

Holly Taylor
Project Manager

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

Analysis Requested													
	Lab Id:	593503-007		593503-008		593503-009		593503-010					
	Field Id:	G-1		H-1		I-1		BG-1					
	Depth:	0-6		0-6		0-6		0-6					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Jul-24-18 12:00		Jul-24-18 12:10		Jul-24-18 12:20		Jul-24-18 12:40					
Chloride by EPA 300	***Extracted:***	Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30		Jul-25-18 16:30					
	Analyzed:	Jul-25-18 20:02		Jul-25-18 20:07		Jul-25-18 20:12		Jul-25-18 20:18					
	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				

Holly Taylor
Project Manager

Analytical Report 593503

for

PSC Industrial Outsourcing LP

Project Manager: Perry Verret

XTO NFI #26

217.1.711.0003.J0032

26-JUL-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

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

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

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

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

Sample Cross Reference 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

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

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**A-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-001	Date Collected:	07.24.18 11.00	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**B-1**	Matrix:	Soil	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
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

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
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**D-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-004	Date Collected:	07.24.18 11.30	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**E-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-005	Date Collected:	07.24.18 11.40	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**F-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-006	Date Collected:	07.24.18 11.50	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**G-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-007	Date Collected:	07.24.18 12.00	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**H-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-008	Date Collected:	07.24.18 12.10	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

PSC Industrial Outsourcing LP, Gibson, LA

XTO NFI #26

Sample Id:	**I-1**	Matrix:	Soil	Date Received:	07.25.18 11.00
Lab Sample Id:	593503-009	Date Collected:	07.24.18 12.20	Sample Depth:	0 - 6
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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

Certificate of Analytical Results 593503

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
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	07.25.18 16.30	Basis:	Wet Weight
Seq Number:	3057784				

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.

** Surrogate recovered outside laboratory control limit.

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

QC Summary 593503

PSC Industrial Outsourcing LP

XTO NFI #26

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3057784 Matrix: Solid Date Prep: 07.25.18
MB Sample Id: 7659096-1-BLK LCS Sample Id: 7659096-1-BKS LCSD Sample Id: 7659096-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	256	102	252	101	90-110	2	20	mg/kg	07.25.18 18:57	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
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

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.02	251	267	106	257	102	90-110	4	20	mg/kg	07.25.18 20:29	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3057784 Matrix: Soil Date Prep: 07.25.18
Parent Sample Id: 593503-001 MS Sample Id: 593503-001 S MSD Sample Id: 593503-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	262	105	90-110	1	20	mg/kg	07.25.18 19:13	

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

Chain of Custody

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

Work Order No: 217-1711-0003-T0032

www.xenco.com Page 1 of 1

Project Manager:	Mr. Perry Verret	Bill to: (if different)	
Company Name:	Hydrochem PSC	Company Name:	Hydrochem PSC
Address:	P.O.Box 1529	Address:	P.O. Box 1529
City, State ZIP:	Amelia, LA.	City, State ZIP:	Amelia LA.
Phone:	985-221-0644	Email:	Perry.Verret@HydrochemPSC.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	XTO NFI #26	Turn Around	
Project Number:		Routine ☐	
P.O. Number:	LAN 1217-1535	Rush: 24 HR.	
Sampler's Name:	Perry Verret / David Woods	Due Date: ASAP	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	2.3	Thermometer ID		
Received Intact:	Yes No	RS		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

593503

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	Sample Comments
A-1	S	7-24-18	1100	0-6	1	X	
B-1	S	7-24	1110	0-6	1	X	
C-1	S	7-24	1120	0-6	1	X	
D-1	S	7-24-18	1130	0-6	1	X	
E-1	S	7-24	11:40	0-6	1	X	
F-1	S	7-24	11:50	0-6	1	X	
G-1	S	7-24	1200	0-6	1	X	
H-1	S	7-24	1210	0-6	1	X	
I-1	S	7-24	1220	0-6	1	X	
BG-1	S	7-24	12 40	0-6	1	X	

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 Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			7-24-18 1300	2	8-24-18	7-24-18 1400
3	7/24 15:30		7/25/18 11:00	4		
5				6		

Revised Date 051418 Rev. 2018.1

Final 1.000

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XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: PSC Industrial Outsourcing LP

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

Work Order #: 593503

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping 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)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Connie Hernandez Date: 07/25/2018

Checklist reviewed by: Holly Taylor Date: 07/25/2018

Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flats 2b Fed 001

Project Id: XTO-995
Contact: Perry Verret
Project Location:

Date Received in Lab: Wed Mar-27-19 11:50 am
Report Date: 29-MAR-19
Project Manager: Brandi Ritcherson

Analysis Requested	*Lab Id:*	619079-001		619079-002		619079-003		619079-004		619079-005		619079-006	
	Field Id:	North Bottom Grab		Center Bottom Grab		South Bottom Grab		East Wall Grab		Bottom Composite		North Wall Composite	
	Depth:	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-19 08:05		Mar-25-19 08:35		Mar-25-19 08:40		Mar-25-19 08:30		Mar-25-19 08:25		Mar-25-19 08:20	
BTEX by EPA 8021B	*Extracted:*	Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00	
	Analyzed:	Mar-28-19 01:05		Mar-27-19 23:50		Mar-28-19 00:09		Mar-28-19 00:28		Mar-28-19 00:47		Mar-28-19 02:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Mar-27-19 15:40		Mar-27-19 15:40		Mar-27-19 15:40		Mar-27-19 15:40		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

Brandi Ritcherson
Project Manager

Certificate of Analysis Summary 619079

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flats 2b Fed 001

Project Id: XTO-995
Contact: Perry Verret
Project Location:

Date Received in Lab: Wed Mar-27-19 11:50 am
Report Date: 29-MAR-19
Project Manager: Brandi Ritcherson

Analysis Requested	*Lab Id:*	619079-007		619079-008		619079-009		619079-010		619079-011		619079-012	
	Field Id:	South Wall Composite		West Wall Composite		East Wall Composite (For Re		E1 (Release Retake)		E2 (Release Retake)		E3 (Release Retake)	
	Depth:	0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft		0.3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Mar-25-19 08:10		Mar-25-19 08:00		Mar-25-19 08:15		Mar-25-19 09:00		Mar-25-19 08:55		Mar-25-19 08:50	
BTEX by EPA 8021B	*Extracted:*	Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00		Mar-27-19 15:00	
	Analyzed:	Mar-28-19 02:39		Mar-28-19 02:58		Mar-28-19 03:17		Mar-28-19 03:36		Mar-28-19 03:55		Mar-28-19 04:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.00400	0.00400	<0.00398	0.00398	<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	*Extracted:*	Mar-27-19 16:00		Mar-27-19 16:00		Mar-27-19 16:00		Mar-27-19 16:00		Mar-27-19 16:00		Mar-27-19 16:00	
	Analyzed:	Mar-27-19 23:22		Mar-27-19 23:28		Mar-27-19 23:35		Mar-27-19 23:41		Mar-28-19 00:01		Mar-28-19 00:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		23.1	5.00	35.0	4.97	5.79	4.95	<4.98	4.98	<5.00	5.00	<5.00	5.00
TPH By SW8015 Mod	*Extracted:*	Mar-28-19 07:00		Mar-27-19 17:00		Mar-27-19 17:00		Mar-27-19 17:00		Mar-27-19 17:00		Mar-27-19 12:00	
	Analyzed:	Mar-28-19 11:17		Mar-28-19 04:09		Mar-28-19 04:29		Mar-28-19 04:48		Mar-28-19 05:07		Mar-27-19 20:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		144	15.0	28.2	14.9	36.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		32.2	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		176	15.0	28.2	14.9	36.1	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

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

Sample Cross Reference 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

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

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.

Certificate of Analytical Results 619079

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:	
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
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
Seq Number:	3083750				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<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	

Certificate of Analytical Results 619079

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			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.28.19 01.05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.28.19 01.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	03.28.19 01.05	
1,4-Difluorobenzene	540-36-3	111	%	70-130	03.28.19 01.05	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**Center Bottom Grab**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-002	Date Collected:	03.25.19 08.35	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	SPC	Date Prep:	03.27.19 15.40	Basis:	Wet Weight
Seq Number:	3083706				

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

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
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 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	

Certificate of Analytical Results 619079

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
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.27.19 23.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.27.19 23.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	03.27.19 23.50	
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.27.19 23.50	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**South Bottom Grab**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-003	Date Collected:	03.25.19 08.40	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	SPC	Date Prep:	03.27.19 15.40	Basis:	Wet Weight
Seq Number:	3083706				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.0**	4.95	mg/kg	03.28.19 08.44		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
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 10.00	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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**South Bottom Grab**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-003	Date Collected:	03.25.19 08.40	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.19 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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**East Wall Grab**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-004	Date Collected:	03.25.19 08.30	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	SPC	Date Prep:	03.27.19 15.40	Basis:	Wet Weight
Seq Number:	3083706				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.72**	4.95	mg/kg	03.27.19 22.02		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
Seq Number:	3083750				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.28.19 10.19	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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**East Wall Grab**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-004	Date Collected:	03.25.19 08.30	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**Bottom Composite**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-005	Date Collected:	03.25.19 08.25	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	SPC	Date Prep:	03.27.19 15.40	Basis:	Wet Weight
Seq Number:	3083706				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**96.1**	4.95	mg/kg	03.27.19 22.08		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
Seq Number:	3083750				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	03.28.19 10.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	**21.9**	14.9	mg/kg	03.28.19 10.38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	03.28.19 10.38	U	1
Total TPH	PHC635	**21.9**	14.9	mg/kg	03.28.19 10.38		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	03.28.19 10.38	
o-Terphenyl	84-15-1	96	%	70-135	03.28.19 10.38	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**Bottom Composite**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-005	Date Collected:	03.25.19 08.25	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	03.28.19 00.47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.28.19 00.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	147	%	70-130	03.28.19 00.47	**
1,4-Difluorobenzene	540-36-3	110	%	70-130	03.28.19 00.47	

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HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**North Wall Composite**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-006	Date Collected:	03.25.19 08.20	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.0**	5.00	mg/kg	03.27.19 22.48		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
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	

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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:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

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

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HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**South Wall Composite**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-007	Date Collected:	03.25.19 08.10	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.1**	5.00	mg/kg	03.27.19 23.22		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.28.19 07.00	Basis:	Wet Weight
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 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	

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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:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.28.19 02.39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.28.19 02.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.28.19 02.39	
4-Bromofluorobenzene	460-00-4	128	%	70-130	03.28.19 02.39	

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**West Wall Composite**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-008	Date Collected:	03.25.19 08.00	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35.0**	4.97	mg/kg	03.27.19 23.28		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.27.19 17.00	Basis:	Wet Weight
Seq Number:	3083699				

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	

Certificate of Analytical Results 619079

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
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	03.28.19 02.58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.28.19 02.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	03.28.19 02.58	
1,4-Difluorobenzene	540-36-3	114	%	70-130	03.28.19 02.58	

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**East Wall Composite (For Release)**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-009	Date Collected:	03.25.19 08.15	Sample Depth:	0.3 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.79**	4.95	mg/kg	03.27.19 23.35		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.27.19 17.00	Basis:	Wet Weight
Seq Number:	3083699				

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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**East Wall Composite (For Release)**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-009	Date Collected:	03.25.19 08.15	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	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	

Certificate of Analytical Results 619079

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
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.27.19 17.00	Basis:	Wet Weight
Seq Number:	3083699				

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	

Certificate of Analytical Results 619079

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
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	03.28.19 03.36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	03.28.19 03.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	03.28.19 03.36	
1,4-Difluorobenzene	540-36-3	116	%	70-130	03.28.19 03.36	

Certificate of Analytical Results 619079

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
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

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

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.27.19 17.00	Basis:	Wet Weight
Seq Number:	3083699				

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	

Certificate of Analytical Results 619079

HydroChemPSC (PSC), Morgan City, LA

North Indian Flats 2b Fed 001

Sample Id:	**E2 (Release Retake)**	Matrix:	Soil	Date Received:	03.27.19 11.50
Lab Sample Id:	619079-011	Date Collected:	03.25.19 08.55	Sample Depth:	0.3 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	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	

Certificate of Analytical Results 619079

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:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	03.27.19 16.00	Basis:	Wet Weight
Seq Number:	3083707				

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

Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	03.27.19 12.00	Basis:	Wet Weight
Seq Number:	3083698				

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	

Certificate of Analytical Results 619079

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:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	SCM			% Moisture:	
Analyst:	SCM	Date Prep:	03.27.19 15.00	Basis:	Wet Weight
Seq Number:	3083682				

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

** Surrogate recovered outside laboratory control limit.

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

QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083706 Matrix: Solid Date Prep: 03.27.19
MB Sample Id: 7674465-1-BLK LCS Sample Id: 7674465-1-BKS LCSD Sample Id: 7674465-1-BSD

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

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083707 Matrix: Solid Date Prep: 03.27.19
MB Sample Id: 7674466-1-BLK LCS Sample Id: 7674466-1-BKS LCSD Sample Id: 7674466-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	255	102	257	103	90-110	1	20	mg/kg	03.27.19 22:35	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083706 Matrix: Soil Date Prep: 03.27.19
Parent Sample Id: 619078-002 MS Sample Id: 619078-002 S MSD Sample Id: 619078-002 SD

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

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083706 Matrix: Soil Date Prep: 03.27.19
Parent Sample Id: 619078-012 MS Sample Id: 619078-012 S MSD Sample Id: 619078-012 SD

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

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083707 Matrix: Soil Date Prep: 03.27.19
Parent Sample Id: 618909-012 MS Sample Id: 618909-012 S MSD Sample Id: 618909-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.22	248	265	105	245	97	90-110	8	20	mg/kg	03.28.19 00:41	

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

QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3083707 Matrix: Soil Date Prep: 03.27.19
Parent Sample Id: 619079-006 MS Sample Id: 619079-006 S MSD Sample Id: 619079-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.0	250	263	99	266	100	90-110	1	20	mg/kg	03.27.19 22:55	

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3083698 Matrix: Solid Date Prep: 03.27.19
MB Sample Id: 7674533-1-BLK LCS Sample Id: 7674533-1-BKS LCSD Sample Id: 7674533-1-BSD

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

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

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3083699 Matrix: Solid Date Prep: 03.27.19
MB Sample Id: 7674534-1-BLK LCS Sample Id: 7674534-1-BKS LCSD Sample Id: 7674534-1-BSD

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

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

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

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	939	94	945	95	70-135	1	20	mg/kg	03.28.19 08:06	
Diesel Range Organics (DRO)	<8.13	1000	958	96	981	98	70-135	2	20	mg/kg	03.28.19 08:06	

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

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

QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

Analytical Method: TPH By SW8015 Mod — Prep Method: TX1005P
Seq Number: 3083698 — Matrix: Soil — Date Prep: 03.27.19
Parent Sample Id: 619076-001 — MS Sample Id: 619076-001 S — MSD Sample Id: 619076-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	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	

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

Analytical Method: TPH By SW8015 Mod — Prep Method: TX1005P
Seq Number: 3083699 — Matrix: Soil — Date Prep: 03.27.19
Parent Sample Id: 619078-001 — MS Sample Id: 619078-001 S — MSD Sample Id: 619078-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	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 — Prep Method: TX1005P
Seq Number: 3083750 — Matrix: Soil — Date Prep: 03.28.19
Parent Sample Id: 619079-002 — MS Sample Id: 619079-002 S — MSD Sample Id: 619079-002 SD

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

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

QC Summary 619079

HydroChemPSC (PSC)

North Indian Flats 2b Fed 001

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

Seq Number: 3083682 Matrix: Solid Date 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	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.130	129	0.123	123	70-130	6	35	mg/kg	03.27.19 20:22	
Toluene	<0.00201	0.101	0.129	128	0.123	123	70-130	5	35	mg/kg	03.27.19 20:22	
Ethylbenzene	<0.000568	0.101	0.110	109	0.105	105	70-130	5	35	mg/kg	03.27.19 20:22	
m,p-Xylenes	<0.00102	0.201	0.215	107	0.208	105	70-130	3	35	mg/kg	03.27.19 20:22	
o-Xylene	<0.00201	0.101	0.109	108	0.105	105	70-130	4	35	mg/kg	03.27.19 20:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	117		109		109		70-130	%	03.27.19 20:22
4-Bromofluorobenzene	116		110		108		70-130	%	03.27.19 20:22

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

Seq Number: 3083682 Matrix: Soil Date Prep: 03.27.19

Parent Sample Id: 619078-012 MS Sample Id: 619078-012 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	Flag
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 [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

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

Work Order No: 619079

www.xenco.com Page 1 of 2

Project Manager:	Perry Verret	Bill to: (if different)	
Company Name:	Hydro Chem PSC	Company Name:	
Address:	PO Box 529	Address:	
City, State ZIP:	Amelia, La. 70340	City, State ZIP:	
Phone:	(985) 221-0644	Email:	Perry.Verret@hydrochempsc.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	North Indian Lights 26 Tank 001	Turn Around	
Project Number:	XTO-995	Routine ☐	
P.O. Number:	1217-03-25-2019	Rush: 1 Day	
Sampler's Name:	Phillip Verret	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5	Thermometer ID:	120
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TPH	BTEX
North Bottom Grab	S	3/25/19	8:05A	0-3FT	1	✓	✓	✓
Center Bottom Grab	S	3/25/19	8:35A	0-3FT	1	✓	✓	✓
South Bottom Grab	S	3/25/19	8:40A	0-3FT	1	✓	✓	✓
East wall Grab	S	3/25/19	8:30A	0-3FT	1	✓	✓	✓
Bottom Composit	S	3/25/19	8:25A	0-3FT	1	✓	✓	✓
North wall composit	S	3/25/19	8:20A	0-3FT	1	✓	✓	✓
South wall Composit	S	3/25/19	8:10A	0-3FT	1	✓	✓	✓
West Wall Composit	S	3/25/19	8:00A	0-3FT	1	✓	✓	✓
East wall composit	S	3/25/19	8:15A	0-3FT	1	✓	✓	✓
(for Release)								

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

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 Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Phillip Verret		3/25/19 9:30	2		3/27/19
3			4		1150
5			6		

Revised Date 051418 Rev. 2018.1

Final 1.000

Chain of Custody

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

Work Order No: 619079

www.xenco.com Page 2 of 2

Project Manager:	Perry Verret	Bill to: (if different)	
Company Name:	Hydro Chem PSC	Company Name:	
Address:	PO Box 529	Address:	
City, State ZIP:	Amelia, La. 70340	City, State ZIP:	
Phone:	985/221-0644	Email:	Perry.verret@Hydrochempsc.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	North Indian Flats 26 Federal	Turn Around	
Project Number:	XTO.995	Routine ☐	
P.O. Number:	217-03-26 2019	Rush: 1 Day	
Sampler's Name:	Todd Verret	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.3/0.2	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chlorides	TPH	BTEX	Sample Comments
E1 (Release Point)	S	3/26/19	9:00A	0-3'	1	✓	✓	✓	
E2 (Release Point)	S	3/26/19	8:55A	0.3'	1	✓	✓	✓	
E3 (Release Point)	S	3/26/19	8:50A	0-3'	1	✓	✓	✓	

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 Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/25/19 9:30a	2		3/27/19 1150
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

ORIGIN ID:CAOA (575) 887-6245
XENCO
PAC N MAIL
910 W PIERCE ST
CARLSBAD, NM 88220
UNITED STATES US

SHIP DATE: 26MAR19
ACTWGT: 65.00 LB
CAD: 101813706/INET4100
DIMS: 22x15x16 IN

BILL RECIPIENT

TO HOLD FOR XENCO
FEDEX EXPRESS SHIP CENTER
FEDEX SHIP CENTER
3600 COUNTY RD 1276 S
MIDLAND TX 79711
(806) 794-1296
INV:
PO:
REF:
DEPT:

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FedEx Express

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41 MAFA

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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

Work Order #: 619079

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 03/27/2019

Brianna Teel

Checklist reviewed by: Brandi Ritcherson Date: 03/27/2019

Brandi Ritcherson

Certificate of Analysis Summary 619714

HydroChemPSC (PSC), Morgan City, LA

Project Name: North Indian Flat 26 Fed 1

Project Id: XTO-995
Contact: Perry Verret
Project Location:

Date Received in Lab: Tue Apr-02-19 11:45 am
Report Date: 03-APR-19
Project Manager: Brandi Ritcherson

Analysis Requested									
	Lab Id:	619714-001		619714-002					
	Field Id:	North Bottom Grab (Retake)		South Wall Grab (Retake)					
	Depth:	0-3 ft		0-3 ft					
	Matrix:	SOIL		SOIL					
	Sampled:	Mar-29-19 10:00		Mar-29-19 13:50					
TPH By SW8015 Mod	***Extracted:***	Apr-02-19 16:00		Apr-02-19 16:00					
	Analyzed:	Apr-03-19 00:39		Apr-03-19 00:58					
	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				

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

Sample Cross Reference 619714

HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

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

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 619714

HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id:	**North Bottom Grab (Retake)**	Matrix:	Soil	Date Received:	04.02.19 11.45
Lab Sample Id:	619714-001	Date Collected:	03.29.19 10.00	Sample Depth:	0 - 3 ft
Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.02.19 16.00	Basis:	Wet Weight
Seq Number:	3084425				

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	

Certificate of Analytical Results 619714

HydroChemPSC (PSC), Morgan City, LA

North Indian Flat 26 Fed 1

Sample Id:	**South Wall Grab (Retake)**	Matrix:	Soil	Date Received:	04.02.19 11.45
Lab Sample Id:	619714-002	Date Collected:	03.29.19 13.50	Sample Depth:	0 - 3 ft
Analytical Method:	TPH By SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	04.02.19 16.00	Basis:	Wet Weight
Seq Number:	3084425				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**23.3**	14.9	mg/kg	04.03.19 00.58		1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	04.03.19 00.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	04.03.19 00.58	U	1
Total TPH	PHC635	**23.3**	14.9	mg/kg	04.03.19 00.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	04.03.19 00.58	
o-Terphenyl	84-15-1	78	%	70-135	04.03.19 00.58	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

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

QC Summary 619714

HydroChemPSC (PSC)

North Indian Flat 26 Fed 1

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3084425 Matrix: Solid Date Prep: 04.02.19
MB Sample Id: 7674881-1-BLK LCS Sample Id: 7674881-1-BKS LCSD Sample Id: 7674881-1-BSD

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

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

Analytical Method: **TPH By SW8015 Mod** Prep Method: TX1005P
Seq Number: 3084425 Matrix: Soil Date Prep: 04.02.19
Parent Sample Id: 619640-001 MS Sample Id: 619640-001 S MSD Sample Id: 619640-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	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 [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

XENCO LABORATORIES

Chain of Custody

Work Order No: 619714

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Page ______ of ______

Project Manager:	Perry Verret	Bill to: (if different)	
Company Name:	Hydrochem PSC	Company Name:	
Address:	PO Box 529	Address:	
City, State ZIP:	Amelia, La. 70340	City, State ZIP:	
Phone:	(985) 221-0644	Email:	Perry.Verret@hydrochempsc.com

Work Order Comments

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

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	North Indian Flats 36 Fed 1	**Turn Around**	
Project Number:	XTO-995	Routine ☐	
P.O. Number:	12170329 2019	Rush:	1 Day
Sampler's Name:	Philip Verret	Due Date:	

SAMPLE RECEIPT	Temp Blank: Yes (No)	Wet Ice: (Yes) No
Temperature (°C):	0.5/0.4	Thermometer ID: [illegible]
Received Intact:	(Yes) No	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor: -0.1
Sample Custody Seals:	Yes (No) N/A	Total Containers:

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH	Sample Comments
North Bottom Grab (Retake)	S	3/29/19	10:00A	0-3'	1	✓	
South WAll Grab (Retake)	S	3/29/19	1:50P	0-3'	1	✓	

Work Order Notes

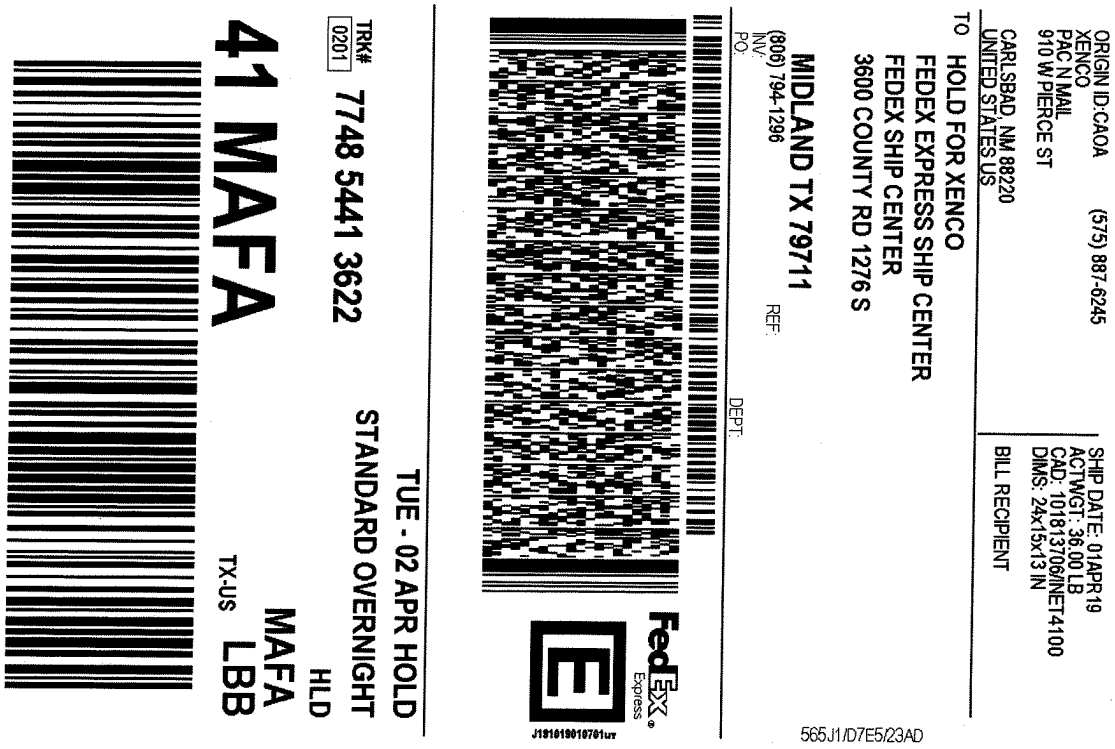
TAT starts the day recevied by the lab, if received by 4:30pm

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 Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	3/29/19 10:30A	2 [signature]	[signature] 4/2/19 1145	4/1/19 1503
3			4		
5			6		

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

Work Order #: 619714

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.4
#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?	**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 relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 04/02/2019

Brianna Teel

Checklist reviewed by: Brandi Ritcherson Date: 04/02/2019

Brandi Ritcherson

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

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

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 08 2014
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1428133861

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude N 32.452537 **Longitude** W 104.054648

NATURE OF RELEASE

Type of Release: Crude oil and Produced water	Volume of Release: 2 bbls crude oil and 8 bbls produced water	Volume Recovered: 1 bbl crude oil and 4 bbls produced water
Source of Release: Flange gasket on water transfer pump.	Date and Hour of Occurrence 9/24/14 time unknown	Date and Hour of Discovery: 9/24/14 at approximately 2:20 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? M. Bratcher, H. Patterson and Jim Amos	
By Whom? Tony Savoie	Date and Hour: 9/24/14 at 2:46 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A flange gasket failed on the water transfer pump. The flange gasket was replaced.

Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. The spill area will be remediated following the NMOCD and BLM guidelines for spills and releases.

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

Signature: Tony Savoie

Printed Name: Tony Savoie

Title: Waste Management and Remediation Specialist

E-mail Address: tasavoie@basspet.com

Date: 10/7/14 Phone: 432-556-8730

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By Mike Bratcher

Approval Date: 10/8/14 Expiration Date: N/A

Conditions of Approval: Attached ☐

Remediation per O.C.D. Rules & Guidelines
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/8/14

* Attach Additional Sheets If Necessary

2RP-2523

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452537 Longitude -104.054648
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 9/24/2014	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 1
☒ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A flange gasket failed on the water transfer pump. The flange gasket was replaced. The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 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	

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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party 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
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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
JAN 21 2015
RECEIVED

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nAB1502633538

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude N 32.452537 **Longitude** W 104.054648

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 7 bbls produced water	Volume Recovered: 4 bbls produced water
Source of Release: Air Eliminator	Date and Hour of Occurrence 1/12/~~14~~ 15 time unknown	Date and Hour of Discovery: 1/12/~~14~~ 15 approximately 1:17 p.m.
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? M. Bratcher, H. Patterson and Jim Amos	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* An air eliminator on the water transfer pump failed, the part was replaced.

Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 450 sq. ft. of earthen containment berm around the water storage tank. Same area impacted as previous spill on 9/24/14, reference spill report #2RP-2523.The spill area will be remediated following the NMOCD and BLM guidelines for spills and releases.

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

Signature: Tony Savoie	OIL CONSERVATION DIVISION
Printed Name: Tony Savoie	Approved by Environmental Specialist:
Title: Waste Management and Remediation Specialist	Approval Date: 1/23/15 Expiration Date: NA
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 2/23/15 Attached ☐
Date: 1/21/15 Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

2RP-2759

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: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452537 Longitude -104.054648
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 1/12/2015	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

Closure

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

Closure Report Attachment Checklist: ***Each of the following 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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party 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:

NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 09 2017
RECEIVED

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

nAB1701052774 2000737

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P.	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2100	North	1850	East	Eddy

Latitude 32.452595° **Longitude** -104.054825°

NATURE 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: 12/22/2016 time unknown	Date and Hour of Discovery: 12/22/2016 10 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
The body of a check valve developed a pinhole due to corrosion and fluids 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 were immediately recovered.

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

Signature:

Printed Name: Amy C. Ruth

Title: EHS Environmental Supervisor

E-mail Address: ACRuth@basspet.com

Date: 1/9/2017 Phone: 432-661-0571

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 1/10/17 Expiration Date: N/A

Conditions of Approval: See attached

Attached ☐

* Attach Additional Sheets If Necessary

2RP-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 email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452595 Longitude -104.054825
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 12/22/2016	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 21	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

State of New Mexico
Oil Conservation Division

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

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4066
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: 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-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.***

☒ 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

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

OCD Only

Received by: Date:

Closure approval by the OCD does not relieve the responsible party 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:

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: XTO Energy BOPCO OGRID: 260737	Contact: Kyle Littrell
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No: 432-221-7331
Facility Name: North Indian Flats 26 Federal #1	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No: 30-015-27556

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	26	21S	28E	2150	North	1980	East	Eddy

Latitude 32.452295 **Longitude** -103.054719 NAD83

NATURE OF RELEASE

Type of Release Oil	Volume of Release 7bbl oil	Volume Recovered 4bbl oil
Source of Release Oil tank	Date and Hour of Occurrence 7/26/2018, 10:00 AM	Date and Hour of Discovery 7/26/2018, 10:00 AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour: N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Crew was attempting to remove flowline from oil tank on location. Upon striking hammer union, threads connecting valve and swedge cracked, causing a release of oil into earthen containment. Vacuum truck was dispatched and recovered all standing fluid. Damaged connection was repaired and all recovered oil was returned to oil tank.

Describe Area Affected and Cleanup Action Taken.*
All fluid was contained to earthen berm. Vacuum truck was dispatched and recovered 4bbl standing fluid from berm. An environmental contractor has been retained to assist with remediation efforts.

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

Signature:

Printed Name: Amy C. Ruth

Title: ~~Environmental~~ Coordinator

E-mail Address: Amy_Ruth@xtoenergy.com

Date: 8/9/2018 Phone: 575-689-3380

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Maria Pruett

Approval Date: 08/10/18 Expiration Date: N/A

Conditions of Approval:

Attached ☐

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
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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-4912
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: XTO Energy, Inc	OGRID: 5380
Contact Name: Kyle Littrell	Contact Telephone: (432)-221-7331
Contact email: Kyle_Littrell@xtoenergy.com	Incident #:
Contact mailing address 522 W. Mermod, Suite 704 Carlsbad, NM 88220	

Location of Release Source

Latitude 32.452295 Longitude -104.054719
(NAD 83 in decimal degrees to 5 decimal places)

Site Name North Indian Flats 26 Federal #1	Site Type Exploration and Production
Date Release Discovered 7/26/2018	API# *(if applicable)* 30-015-27556

Unit Letter	Section	Township	Range	County
G	26	21S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 7	Volume Recovered (bbls) 4
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

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.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: 432-221-7331

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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 **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

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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

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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 8/28/2019

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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: