



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

May 2, 2017

Attn. Mike Bratcher
NMOCD, District 2
811 South First Street
Artesia, NM 88210

**RE: Corrective Action Plan
XTO Energy
Corral Canyon Federal #4 H
UL/P sec. 5, UL/A sec. 8 T25S R29E
32.152057, -103.998431
2RP - 4190**

Mr. Bratcher:

XTO Energy (XTO) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately six and six tenths (6.6) miles southeast of Malaga, New Mexico at Unit Letter P of Section 5 and Unit Letter A of Section 8 in Township 25 South of Range 29 East. This site is located in an area where groundwater is anticipated to be at approximately forty (40) +/- feet below ground surface (bgs) (See Figure 1).

On April 12th, 2017, XTO discovered a release of approximately thirteen and one half (13.5) barrels (bbls), with and estimated seven tenths (0.7) of crude oil and twelve and nine tenths (12.9) of produced water when a Victaulic header failed on an eight (8) inch line. An estimated four and one half tenths (0.45) bbls of crude and one (1) bbl of produced water were recovered. Approximately five thousand seven-hundred and eight (5,708) square feet (ft²) of pasture was impacted. New Mexico Oil Conservation Division (NMOCD) was notified of the release on April 27th, 2017, and an initial C-141 was submitted to NMOCD on April 27th, 2017, for approval.

Basin personnel were on site beginning April 18th, 2017, to begin delineation activities. Seven (7) sample points were established. The sample points, (SP 1, SP 2, SP 3, SP 4, SP 5, SP 6, SP 7) from the release area were field tested for chlorides. Confirmatory samples were submitted to a NMOCD approved and certified laboratory. Chloride, gasoline range organics (GRO) and diesel range organics (DRO) were analyzed in addition to benzene, toluene, ethyl-benzene, and xlyenes.

On April 19th, and April 20th 2016, Basin personnel continued delineation for chloride concentrations for areas where auger refusal was not met. Benzene, toluene, ethylbenzene and xylene (BTEX) concentrations were below the method detection limit for the laboratory while GRO and DRO concentrations are well below the recommended remediation action level (RRAL) of 100 mg/kg guideline. (See Figure 2).

Corrective Action Plan

At the time of remediation, a non-impacted sample will be retrieved at an approximate depth of fifteen (15) feet in an adjacent area to obtain the background concentration of chlorides. Dependent upon the analytical result from the background sample, all sample point areas may require further delineation for chloride concentration. If delineation does not occur during the remediation process, a certified soil-bore installer will be procured to reach a depth where delineation is within the NMOCD limits for chlorides (250 mg/kg).

At the completion of delineation, the impacted soils will be excavated to a maximum depth of four (4) feet bgs for SP 2, SP 3, SP 4, SP 5, SP 6, and SP 7.. The excavated area will then have two (2) feet of compacted gypsum (caliche) placed at the bottom of the excavation to serve as a barrier to inhibit migration of chlorides. The remaining depth will be filled with an aggregate of clean, non-impacted river rock, gravel, sand and soils in order to inhibit erosion while still creating a vadose zone for plant life. Because of the vast amounts of pipelines immediately in the area around SP 1, this area will be excavated to 2' bgs with six (6) inches of compacted caliche placed as liner and the remaining area backfilled with the aggregate. The excavated area will then be contoured to the surrounding area.

At the completion of remediation and at a time conducive for germination, Basin will seed the imported and contoured aggregate with a blend of native, non-noxious vegetation approved by the Bureau of Land Management (BLM). The seed will be applied with either a drill or broadcast method to ensure complete coverage of affected area. The seeds will then be sown with a disc (in compacted soils), rake or a harrow.

The supporting documentation for this Corrective Action Plan is attached.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robbie Runnels', followed by a long horizontal line.

Robbie Runnels
Project Manager
Basin Environmental Service Technologies
(575) 393-2967

Attachments:

Figure 1 – Site Location Map

Figure 2 - Area Sampling Data

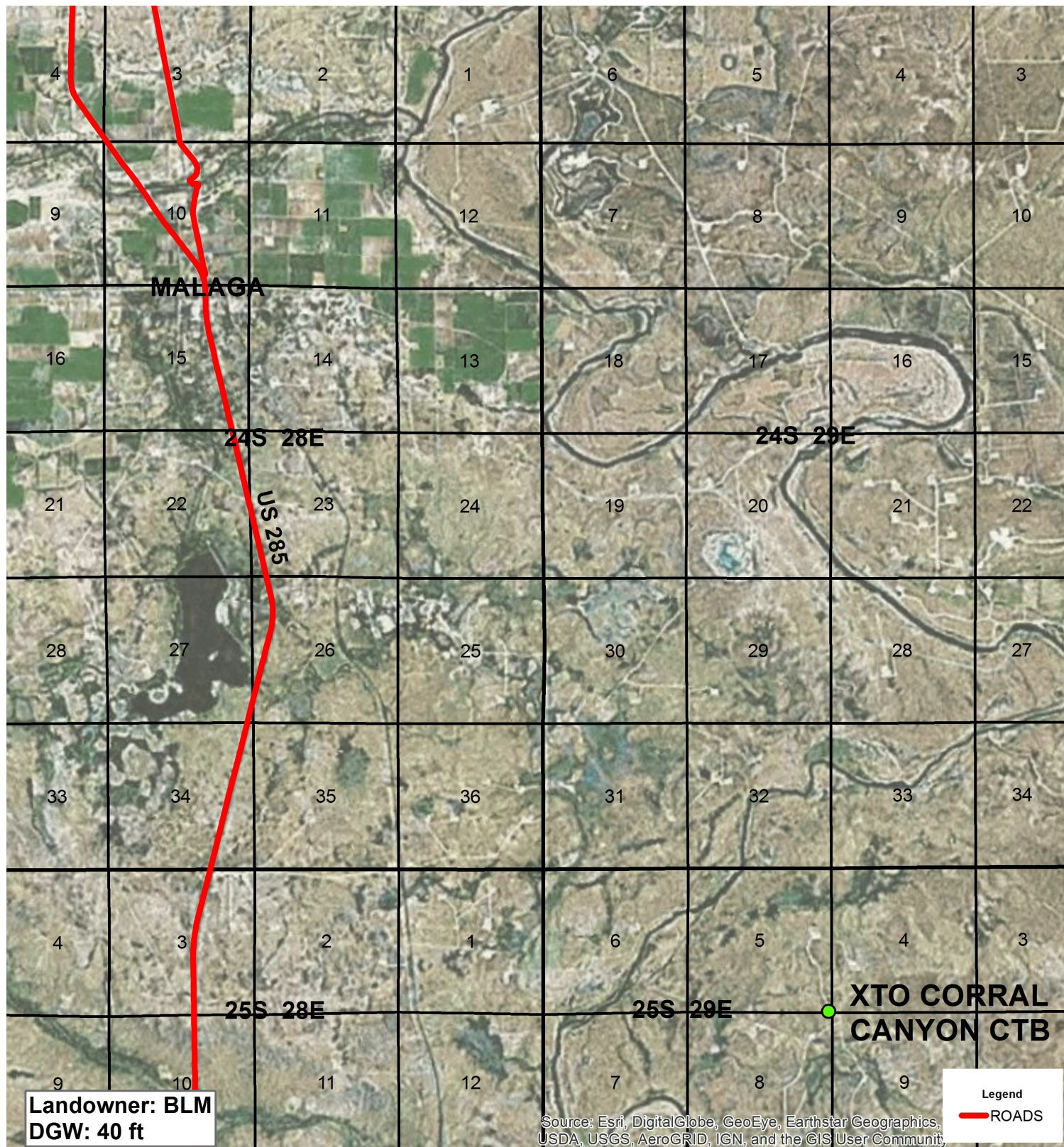
Appendix A – Photo Documentation

Appendix B – Laboratory Analysis

Appendix C – Initial C-141

FIGURES

Site Location



XTO CORRAL CANYON FEDERAL CENTRAL TANK BATTERY

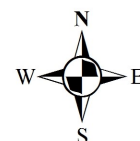
UL P SECTION 5
UL A SECTION 8
T-25-S R-29-E
EDDY COUNTY, NM

GPS: 32.152057 -103.998431

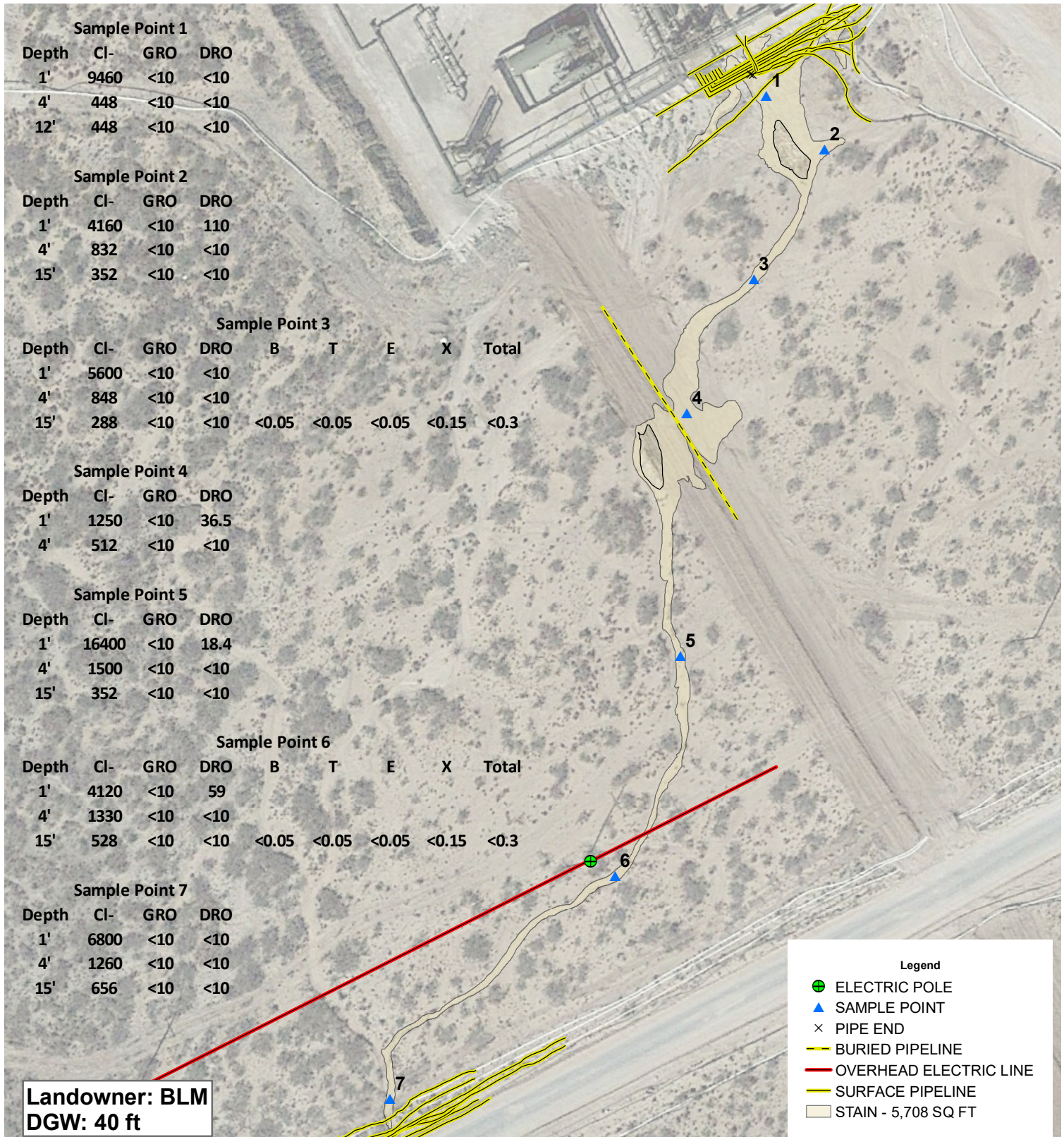
Figure 1

0 0.5 1
Miles

Drawing date: 4/26/17
Drafted by: T. Grieco



Initial Sampling



XTO CORRAL CANYON FEDERAL CENTRAL TANK BATTERY

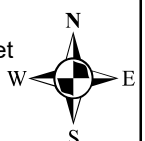
UL P SECTION 5
UL A SECTION 8
T-25-S R-29-E
EDDY COUNTY, NM

**Underground facilities are
spatially projected
and need to be field verified.**

GPS: 32.152057 -103.998431

0 50 100
Feet

GPS date: 4/18/17 TG
Drawing date: 4/19/17
Drafted by: T. Grieco



XTO Energy – Corral Canyon Federal #4 H

Unit Letter P of Section 5 and Unit Letter A of Section 8, T25S, R29E



Release area, facing southeast

4/8/17



Release area, facing southwest

4/18/17



Release area, facing north

4/18/17



Release area, facing northeast

4/18/17

APR 25 2017

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

DAB1711 830029		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: XTO Energy		Contact: Jacob Foust			
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 432-266-2663			
Facility Name: Coral Canyon Federal Central Tank Battery (API: Coral Canyon Federal #4H)		Facility Type: Exploration and Production			
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-42923	


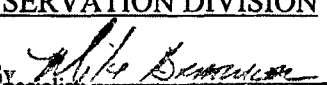
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
S	5	25S	29E	47	South	156	East	Eddy

Latitude 32.152504 Longitude -103.998535

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release 0.69 bo, 12.91 bpw	Volume Recovered 0.45 bo, 1.05 bpw
Source of Release Header	Date and Hour of Occurrence April 12, 2017, Time unknown	Date and Hour of Discovery April 12 2017, 6:00 A.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.* Equipment failure at 8" victaulic header. Header repaired.		
Describe Area Affected and Cleanup Action Taken.* Fluid spilled in a narrow winding path downhill to the southwest approximately 480'. Free standing fluids were recovered. Remediation crew is addressing cleanup.		
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: 		OIL CONSERVATION DIVISION	
Printed Name: Jacob Foust		Signed By:  Approved by Environmental Specialist	
Title: EHS Environmental Supervisor		Approval Date: 4/26/17	Expiration Date: N/A
E-mail Address: Bryan.Foust@xtoenergy.com		Conditions of Approval:	
Date: 4/25/2017 Phone: 432-266-2663		See attached	
		Attached <input checked="" type="checkbox"/>	

* Attach Additional Sheets If Necessary

2RP-4190

April 26, 2017

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: XTO CORRAL CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/21/17 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP1 @ 1' (H701075-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
<hr/>									
Surrogate: 1-Chlorooctane		80.8 %	28.3-164						
Surrogate: 1-Chlorooctadecane		82.4 %	34.7-157						

Sample ID: SP1 @ 4' (H701075-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	83.4 %	28.3-164							
Surrogate: 1-Chlorooctadecane	88.4 %	34.7-157							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/19/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP1 @ 12' (H701075-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	81.5 %	28.3-164							
Surrogate: 1-Chlorooctadecane	86.1 %	34.7-157							

Sample ID: SP2 @ 1' (H701075-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	110	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane		85.0 %	28.3-164						
Surrogate: 1-Chlorooctadecane		90.1 %	34.7-157						

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P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP2 @ 4' (H701075-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	84.0 %	28.3-164							
Surrogate: 1-Chlorooctadecane	89.8 %	34.7-157							

Sample ID: SP2 @ 15' (H701075-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	81.7 %	28.3-164							
Surrogate: 1-Chlorooctadecane	85.7 %	34.7-157							

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*=Accredited Analyte

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ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP3 @ 1' (H701075-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 81.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.2 % 34.7-157

Sample ID: SP3 @ 4' (H701075-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 77.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.7 % 34.7-157

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Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/19/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP3 @ 15' (H701075-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.95	97.7	2.00	0.124	
Toluene*	<0.050	0.050	04/26/2017	ND	2.00	100	2.00	0.354	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	2.02	101	2.00	0.136	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	6.06	101	6.00	0.346	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 86.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.1 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/19/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP4 @ 1' (H701075-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/24/2017	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	36.5	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 73.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.8 % 34.7-157

Sample ID: SP4 @ 4' (H701075-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 74.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP5 @ 1' (H701075-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	18.4	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 78.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.9 % 34.7-157

Sample ID: SP5 @ 4' (H701075-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 83.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP5 @ 15' (H701075-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane		94.8 %	28.3-164						
Surrogate: 1-Chlorooctadecane		101 %	34.7-157						

Sample ID: SP6 @ 1' (H701075-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	59.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane		91.7 %	28.3-164						
Surrogate: 1-Chlorooctadecane		96.2 %	34.7-157						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP6 @ 4' (H701075-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	87.6 %	28.3-164							
Surrogate: 1-Chlorooctadecane	89.0 %	34.7-157							

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Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP6 @ 15' (H701075-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.95	97.7	2.00	0.124	
Toluene*	<0.050	0.050	04/26/2017	ND	2.00	100	2.00	0.354	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	2.02	101	2.00	0.136	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	6.06	101	6.00	0.346	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	04/24/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	

Surrogate: 1-Chlorooctane 93.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.3 % 34.7-157

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ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP7 @ 1' (H701075-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	87.9 %	28.3-164							
Surrogate: 1-Chlorooctadecane	89.7 %	34.7-157							

Sample ID: SP7 @ 4' (H701075-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/24/2017	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56	
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34	
Surrogate: 1-Chlorooctane	89.5 %	28.3-164							
Surrogate: 1-Chlorooctadecane	87.3 %	34.7-157							

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Analytical Results For:

Basin Environmental Service
ROBBIE RUNNELS
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 04/21/2017
Reported: 04/26/2017
Project Name: XTO CORRAL CANYON
Project Number: FEDERAL CTB
Project Location: EDDY

Sampling Date: 04/20/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP7 @ 15' (H701075-20)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	04/24/2017	ND	416	104	400	3.77		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/22/2017	ND	185	92.4	200	3.56		
DRO >C10-C28	<10.0	10.0	04/22/2017	ND	190	95.0	200	4.34		
<hr/>										
Surrogate: 1-Chlorooctane	91.0 %	28.3-164								
Surrogate: 1-Chlorooctadecane	95.7 %	34.7-157								

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Robbie Runnels		P.O. #:											
Address: P.O. Box 301		Company: XTO											
City: Lovington		Attn: Amy Ruth											
State: NM Zip: 88260		Address:											
Phone #: (575)396-2378		City:											
Fax #: (575)396-1429		State: NM Zip:											
Project #:		Phone #:											
Project Name: XTO Corral Canyon Federal CTB		Fax #:											
Project Location: Eddy		Matrix:											
Sampler Name: Robbie Runnels		GROUNDWATER											
		WASTEWATER											
		SOIL											
		OIL											
		SLUDGE											
		OTHER :											
		ACID/BASE:											
		ICE / COOL											
		OTHER :											
		DATE											
		TIME											
		Chloride											
		TPH (8015B)											
		BTEX (8021B)											
		added											
		4/26/17											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015B)	BTEX (8021B)	added	4/26/17
	1 SP1 @ 1'	g	1	X			4/18/17	11:00	X	X			
	2 SP1 @ 4'	g	1	X			4/18/17	11:50	X	X			
	3 SP1 @ 12'	g	1	X			4/19/17	11:45	X	X			
	4 SP2 @ 1'	g	1	X			4/18/17	13:25	X	X			
	5 SP2 @ 4'	g	1	X			4/18/17	13:50	X	X			
	6 SP2 @ 15'	g	1	X			4/19/17	13:20	X	X			
	7 SP3 @ 1'	g	1	X			4/18/17	14:30	X	X			
	8 SP3 @ 4'	g	1	X			4/18/17	14:50	X	X			
	9 SP3 @ 15'	g	1	X			4/19/17	14:45	X	X			
	10 SP4 @ 1'	g	1	X			4/19/17	15:10	X	X			

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Relinquished By:	Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
REMARKS:			

Relinquished By: _____ Date: 4-21-17 Received By: Juana V. Blacker Date: 4-21-17 Time: 3:40 Sample Condition: ☐ Cool ☒ Intact ☐ Yes ☒ No ☐ Yes ☒ No CHECKED BY: (Initials) 70-475

Delivered By: (Circle One) **UPS - Bus - Other:** 6.9c

Please email results to pm@basinenv.com, amy_ruth@xtoenergy.com, hold SP1 @ 12', SP2,3,5,6,7 @ 15', and SP4 @ 4' for BTEX

FORM-006
Revision 1.0
t Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST									
Project Manager: Robbie Runnels		P.O. #:											
Address: P.O. Box 301		Company: XTO											
City: Lovington		Attn: Amy Ruth											
State: NM Zip: 88260		Address:											
Phone #: (575)396-2378		City:											
Fax #: (575)396-1429		State: NM Zip:											
Project #:		Phone #:											
Project Name: XTO Corral Canyon Federal CTB		Fax #:											
Project Location: Eddy													
Sampler Name: Robbie Runnels													

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		FOR LAB USE ONLY		LAB I.D.		Sample I.D.	
11	SP4 @ 4'	g	1	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :
12	SP5 @ 1'	g	1								
13	SP5 @ 4'	g	1								
14	SP5 @ 15'	g	1								
15	SP6 @ 1'	g	1								
16	SP6 @ 4'	g	1								
17	SP6 @ 15'	g	1								
18	SP7 @ 1'	g	1								
19	SP7 @ 4'	g	1								
20	SP7 @ 15'	g	1								

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Relinquished By:	Date:	Received By:	Date:
Relinquished By:	Date:	Received By:	Date:

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: _____

Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: _____ **INITIALS:** _____

REMARKS: _____

Please email results to pm@basinenr.com, amy_ruth@xtoenergy.com, hold SP1@12', SP2,3,5,6,7 @15', and SP4 @ 4' for BTEX