

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

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: Logan Hixon	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683	
Facility Name: WF Federal 27-2	Facility Type: Gas Well (Fruitland Coal)	
Surface Owner: Federal Land	Mineral Owner	API No. 30-045-30689

LOCATION OF RELEASE

Unit Letter C	Section 27	Township 30 N	Range 14W	Feet from the 1021	North/South Line FNL	Feet from the 1940	East/West Line FWL	County San Juan
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Latitude: N36\*.78957 Longitude: W-108\*29889

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Approximately 50 bbl.	Volume Recovered: 40 bbl. Recovered
Source of Release: Water Transfer Line Inside Valve Can near location	Date and Hour of Occurrence: July 2, 2014 at Unknown Time	Date and Hour of Discovery: July 2, 2014 at 1600.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith (NMOCD)	OIL CONS. DIV DIST. 3 AUG 11 2014
By Whom? Kurt Hoekstra (XTO)	Date and Hour: July 3, 2014 at 1222 (Attached)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* On July 2, 2014, a water leak was discovered in the produced water transport line valve can near the WF Federal 27-2 well site. An estimated 50 bbl. of produced water leaked from the pipeline into the valve can; of the 50 bbl. released, 40 bbl. were recovered on July 2, 2014. The waterline valve can was excavated, and the leak occurred at the valve located in the can. The produced water traveled to the south east approximately 10 feet before entering a two track road, where it continued approximately 150 feet to the east in the north rut of the two track road where it stopped. The site was ranked a 0 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The depth to groundwater is estimated over 100 feet. This set the regulatory limits to 5,000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.\* On July 3, 2014, a composite sample was collected along the length of the spill. The sample was analyzed for DRO/GRO via USEPA Method 8015, BTEX via USEPA Method 8021, and for chlorides. The sample returned results below the regulatory standards determined for this location (Attached). The samples returned elevated chloride results; the NMOCD had requested that cleanup activities be performed to address the chloride levels. On July 21, 2014 hand digging the impacted area was completed. Approximately 1.5 CY of soil was disposed of at IEI Landfarm. Activity was pursuant to the approved remediation plan (Attached). A Composite sample was collected of the impacted area. The sample collected returned results below the regulatory standard set for this site (Attached). Cory Smith (NMOCD) was onsite July 29, 2014 to evaluate the site and requested that cleanup activities be performed to address chloride levels. Cory Smith (NMOCD) approved the proposed remediation plan of applying gypsum to the impacted area. On August 5, 2014 a crew raked into the impacted area approximately 600 lbs. of gypsum at an application rate of approximately one (1) lb. per linear ft. Activity was pursuant to the approved remediation plan discussed with Cory Smith (NMOCD) onsite July 29, 2014. No further action is required. The sample results are attached for your reference.

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: <i>Logan Hixon</i>		OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon		Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: EHS Coordinator		Approval Date: 9/8/14	Expiration Date:
E-mail Address: Logan.Hixon@xtoenergy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 7, 2014	Phone: 505-333-3683	OCD Ranks Site At a 20	

\* Attach Additional Sheets If Necessary

#NCS 1425157 222 Due to Disturbance to Surface Water 18

## Hoekstra, Kurt

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**From:** Hoekstra, Kurt  
**Sent:** Thursday, July 03, 2014 12:22 PM  
**To:** 'Cory.Smith@state.nm.us'  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hixon, Logan; Rector, Mike  
**Subject:** 24 Hour Notification WF Federal 27 #2 W1-Z Water Can

Please accept this email as the required 24 Hour notification of a produced water leak at the W1-Z water can near the WF Federal 27 # 2 location.

API # 30-045-30689, Unit C, Sec. 27, T-30N, R-14W. Lat. 36.7645, Long -108.2851 San Juan County New Mexico. On 7-2-2014 at approximately 4:00 pm. A produced water leak was reported at the water can near the WF Federal 27 # 2 location, the line going to the water can was shut-in and it was estimated that approximately 50 BBL's of produced water leaked from the water line into the valve can. The produced water came out of an opening in the valve can and traveled east following a two track power line road approximately 160ft. A water truck was called and recovered 40 BBL's of produced water from the valve can. On 7-3-2014 a composite soil sample was collected and will be analyzed for TPH 8015, BTEX 8021, and chlorides. A vacuum trailer removed the soil covering the water line and repairs are in progress.

Kurt Hoekstra  
EHS Coordinator  
XTO Energy  
505-333-3202 Office  
505-486-9543 Cell  
[Kurt\\_Hoekstra@xtoenergy.com](mailto:Kurt_Hoekstra@xtoenergy.com)



12065 Lebanon Rd.  
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Tax I.D. 62-0814289

Est. 1970

Kurt Hoekstra  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

### Report Summary

Monday July 14, 2014

Report Number: L708701

Samples Received: 07/08/14

Client Project:

Description: WFFED 27-2 Water Can WI-Z

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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REPORT OF ANALYSIS

Kurt Hoekstra  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

July 14, 2014

Date Received : July 08, 2014  
Description : WFFED 27-2 Water Can WI-Z  
Sample ID : FARKH-070314-0845  
Collected By : Kurt  
Collection Date : 07/03/14 08:45

ESC Sample # : L708701-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	27000	540	mg/kg	9056	07/10/14	50
Total Solids	93.4		%	2540 G-2011	07/10/14	1
Benzene	BDL	0.0027	mg/kg	8021/8015	07/10/14	5
Toluene	BDL	0.027	mg/kg	8021/8015	07/10/14	5
Ethylbenzene	BDL	0.0027	mg/kg	8021/8015	07/10/14	5
Total Xylene	BDL	0.0080	mg/kg	8021/8015	07/10/14	5
TPH (GC/FID) Low Fraction	BDL	0.54	mg/kg	GRO	07/10/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.3		% Rec.	8021/8015	07/10/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/10/14	5
TPH (GC/FID) High Fraction	17.	4.3	mg/kg	3546/DRO	07/10/14	1
Surrogate recovery(%)						
o-Terphenyl	70.6		% Rec.	3546/DRO	07/10/14	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 07/14/14 16:51 Printed: 07/14/14 16:52

Summary of Remarks For Samples Printed  
07/14/14 at 16:52:12

TSR Signing Reports: 288  
R5 - Desired TAT

Domestic Water Well Sampling-see L609759 Lobato for tests EDD's on ALL projects email James,  
Kurt and Logan all reports

Sample: L708701-01 Account: XTORNM Received: 07/08/14 09:00 Due Date: 07/15/14 00:00 RPT Date: 07/14/14 16:51



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XTO Energy - San Juan Division  
Kurt Hoekstra  
382 County Road 3100

Quality Assurance Report  
Level II

Aztec, NM 87410

July 14, 2014

L708701

Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%		WG730706	07/10/14 07:36
TPH (GC/FID) High Fraction o-Terphenyl	< 4	mg/kg % Rec. 78.50	50-150	WG730609 WG730609	07/09/14 21:34 07/09/14 21:34
Chloride	< 10	mg/kg		WG730804	07/10/14 15:45
Benzene	< .0005	mg/kg		WG730814	07/10/14 18:33
Ethylbenzene	< .0005	mg/kg		WG730814	07/10/14 18:33
Toluene	< .005	mg/kg		WG730814	07/10/14 18:33
TPH (GC/FID) Low Fraction	< .1	mg/kg		WG730814	07/10/14 18:33
Total Xylene	< .0015	mg/kg		WG730814	07/10/14 18:33
a,a,a-Trifluorotoluene (FID)		% Rec. 99.60	59-128	WG730814	07/10/14 18:33
a,a,a-Trifluorotoluene (PID)		% Rec. 104.0	54-144	WG730814	07/10/14 18:33

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	84.3	81.8	3.00	5	L708716-03	WG730706
Chloride	mg/kg	21000	25200	17.0	20	L708701-01	WG730804

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115 WG730706
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	60	48.2	80.3 74.70	50-150 WG730609 50-150 WG730609
Chloride	mg/kg	200	205.	103.	80-120 WG730804
Benzene	mg/kg	.05	0.0486	97.1	70-130 WG730814
Ethylbenzene	mg/kg	.05	0.0489	97.7	70-130 WG730814
Toluene	mg/kg	.05	0.0487	97.3	70-130 WG730814
Total Xylene	mg/kg	.15	0.148	99.0	70-130 WG730814
a,a,a-Trifluorotoluene (FID)				100.0	59-128 WG730814
a,a,a-Trifluorotoluene (PID)				104.0	54-144 WG730814
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.27	95.9	63.5-137 WG730814
a,a,a-Trifluorotoluene (FID)				99.50	59-128 WG730814
a,a,a-Trifluorotoluene (PID)				112.0	54-144 WG730814

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	48.9 48.2 81.0 79.30	50-150 50-150	1.46	20	WG730609 WG730609
Chloride	mg/kg	204. 205. 102.	80-120	0.0	20	WG730804

\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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XTO Energy - San Juan Division  
Kurt Hoekstra  
382 County Road 3100

Quality Assurance Report  
Level II

Aztec, NM 87410

L708701

July 14, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0480	0.0486	96.0	70-130	1.19	20	WG730814
Ethylbenzene	mg/kg	0.0481	0.0489	96.0	70-130	1.60	20	WG730814
Toluene	mg/kg	0.0477	0.0487	95.0	70-130	1.92	20	WG730814
Total Xylene	mg/kg	0.146	0.148	97.0	70-130	1.73	20	WG730814
a,a,a-Trifluorotoluene(FID)				99.90	59-128			WG730814
a,a,a-Trifluorotoluene(PID)				104.0	54-144			WG730814
TPH (GC/FID) Low Fraction	mg/kg	4.89	5.27	89.0	63.5-137	7.52	20	WG730814
a,a,a-Trifluorotoluene(FID)				100.0	59-128			WG730814
a,a,a-Trifluorotoluene(PID)				112.0	54-144			WG730814

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
TPH (GC/FID) High Fraction	mg/kg	74.9	16.0	60	98.0	50-150	L708701-01	WG730609
o-Terphenyl					60.00	50-150		WG730609
Benzene	mg/kg	0.238	0.000383	.05	95.0	49.7-127	L708790-01	WG730814
Ethylbenzene	mg/kg	0.240	0.000405	.05	96.0	40.8-141	L708790-01	WG730814
Toluene	mg/kg	0.242	0.000935	.05	96.0	49.8-132	L708790-01	WG730814
Total Xylene	mg/kg	0.717	0.00134	.15	95.0	41.2-140	L708790-01	WG730814
a,a,a-Trifluorotoluene(FID)					99.40	59-128		WG730814
a,a,a-Trifluorotoluene(PID)					103.0	54-144		WG730814
TPH (GC/FID) Low Fraction	mg/kg	23.2	0.111	5.5	84.0	28.5-138	L708790-01	WG730814
a,a,a-Trifluorotoluene(FID)					99.60	59-128		WG730814
a,a,a-Trifluorotoluene(PID)					110.0	54-144		WG730814

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
TPH (GC/FID) High Fraction	mg/kg	77.6	74.9	103.		50-150	3.48	20	L708701-01	WG730609
o-Terphenyl				55.40		50-150				WG730609
Benzene	mg/kg	0.250	0.238	99.8		49.7-127	4.94	23.5	L708790-01	WG730814
Ethylbenzene	mg/kg	0.247	0.240	98.6		40.8-141	2.85	23.8	L708790-01	WG730814
Toluene	mg/kg	0.249	0.242	99.3		49.8-132	2.87	23.5	L708790-01	WG730814
Total Xylene	mg/kg	0.736	0.717	97.9		41.2-140	2.59	23.7	L708790-01	WG730814
a,a,a-Trifluorotoluene(FID)				99.00		59-128				WG730814
a,a,a-Trifluorotoluene(PID)				103.0		54-144				WG730814
TPH (GC/FID) Low Fraction	mg/kg	23.7	23.2	85.8		28.5-138	1.98	23.6	L708790-01	WG730814
a,a,a-Trifluorotoluene(FID)				100.0		59-128				WG730814
a,a,a-Trifluorotoluene(PID)				111.0		54-144				WG730814

Batch number /Run number / Sample number cross reference

WG730706: R2958776: L708701-  
WG730609: R2959249: L708701-  
WG730804: R2959751: L708701-  
WG730814: R2961368: L708701-

\* \* Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division  
Kurt Hoekstra  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L708701

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July 14, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

\* Sample ID will be the office and sampler-date-military time FARJM-MMDDYY-1200

~~5040 06359960474~~

## Hixon, Logan

---

**From:** Hixon, Logan  
**Sent:** Tuesday, July 15, 2014 7:40 AM  
**To:** Smith, Cory, EMNRD  
**Cc:** McDaniel, James (James\_McDaniel@xtoenergy.com); Hoekstra, Kurt; Wilson, Mark; Rector, Mike; Shelby, Ray; Divine, Olan  
**Subject:** WF Federal 27 #2 W1-Z Water Can Release Remediation Plan (30-045-30689)  
**Attachments:** COC 7-3-14.pdf; ESC 7-3-14.pdf

Good Morning,

Attached for your reference are the analytical results taken on July 3, 2014 from the WF Federal 27-2 water (Fruitland Coal) line release. XTO proposes to remediate the impacted area with gypsum. Approximately 600 lbs. of gypsum at an application rate of 1 lb. per linear feet approximately will be used in the impacted area by raking and spreading of the gypsum. After the application of gypsum to the impacted area XTO will consider this site closed and a follow up C-141 documentation will be submitted. With your approval only XTO tentatively has the work scheduled for Thursday June 17, 2014 around 8:00 A.M. Thank you for your time!

*If you have any questions or concerns do not hesitate to contact me at anytime. Thank you and have a good day!*

**Thank You!**

XTO ENERGY INC., an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | [Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)

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## Hixon, Logan

---

**From:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Sent:** Thursday, July 17, 2014 2:08 PM  
**To:** Hixon, Logan  
**Cc:** McDaniel, James; Hoekstra, Kurt; Kelly, Jonathan, EMNRD  
**Subject:** RE: WF Federal 27-2 Remediation Plan (30-045-30689)

Mr. Hixon,

Your remediation plan for the WF Federal 27-2 is approved.

If you encounter any changes to the plan in the field please call for approval before hand.

Thank you,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

**From:** Hixon, Logan [[mailto:Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)]  
**Sent:** Thursday, July 17, 2014 6:31 AM  
**To:** Smith, Cory, EMNRD  
**Cc:** McDaniel, James; Hoekstra, Kurt  
**Subject:** WF Federal 27-2 Remediation Plan (30-045-30689)

Good Morning,

Attached are the analytical results from the release of the water transfer line at the WF Federal 27-2 (30-045-30689). XTO proposes to hand dig the impacted soil and dispose of the soil at a certified land farm. At the completion of the hand digging of the impacted area, a composite sample will be collected for verification that impacted soils have been removed. After sample results are returned a final C-141 will be submitted. With your approval only XTO tentatively has this work scheduled for Monday July 21, 2014 around 10:00 A.M. If you have any questions please let me know.

*If you have any questions or concerns do not hesitate to contact me at anytime. Thank you and have a good day!*

***Thank You!***

**XTO ENERGY INC.**, an ExxonMobil subsidiary

Logan Hixon | 72 Suttle Street, Suite J | Durango, CO 81303 | ph: 970-247-7708 | Cell: 505-386-8018

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | [Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)

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## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0075

Samples Received: 7/21/2014 11:40:00AM

Job Number: 98031-0528

Work Order: P407076

Project Name/Location: WF Federal 27-2

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 7/23/14

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: WF Federal 27-2  
Project Number: 98031-0528  
Project Manager: Logan Hixon

**Reported:**  
23-Jul-14 10:14

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite	P407076-01A	Soil	07/21/14	07/21/14	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: WF Federal 27-2  
Project Number: 98031-0528  
Project Manager: Logan Hixon

**Reported:**  
23-Jul-14 10:14

**Composite**  
**P407076-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**Cation/Anion Analysis**

Chloride	7940	9.88	mg/kg	1	1430008	07/21/14	07/21/14	EPA 300.0	
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XTO Energy Inc.	Project Name:	WF Federal 27-2	Reported: 23-Jul-14 10:14
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	Logan Hixon	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1430008 - Anion Extraction EPA 300.0

<b>Blank (1430008-BLK1)</b>				Prepared & Analyzed: 21-Jul-14						
Chloride	ND	9.90	mg/kg							

<b>LCS (1430008-BS1)</b>				Prepared & Analyzed: 21-Jul-14						
Chloride	494	9.96	mg/kg	498		99.1	90-110			

<b>Matrix Spike (1430008-MS1)</b>				Source: P407076-01		Prepared & Analyzed: 21-Jul-14				
Chloride	8710	9.90	mg/kg	495	7940	156	80-120			SPK1

<b>Matrix Spike Dup (1430008-MSD1)</b>				Source: P407076-01		Prepared & Analyzed: 21-Jul-14				
Chloride	8930	9.90	mg/kg	495	7940	199	80-120	2.43	20	SPK1

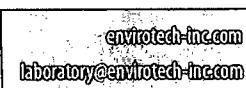
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### Notes and Definitions

SPK I The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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