

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 28-3	Facility Type: Gas Well (Fruitland Coal)

Surface Owner: Federal Land	Mineral Owner	API No. 30-045-30379
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	28	30 N	14W	845	FSL	1652	FWL	San Juan

Latitude: N36\*<sup>36</sup>775959 Longitude: W-108\*322395

NATURE OF RELEASE	
Type of Release: Produced Water	Volume of Release: Approximately 59 bbl. Volume Recovered: 0 bbl. Recovered
Source of Release: Water Transfer Line	Date and Hour of Occurrence: May 14-15, 14 at Unknown Time Date and Hour of Discovery: May 15, 14 at 13:00.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell (NMOCD), Cory Smith (NMOCD)
By Whom? Logan Hixon(XTO)	Date and Hour: May 15, 2014 at 17:04 (see attached E-Mail)
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.

OIL CONSERVATION DIVISION  
JUN 11 2014

**If a Watercourse was Impacted, Describe Fully.\***

Describe Cause of Problem and Remedial Action Taken.\* A 4" SDR11 Poly Pipe ruptured at a butt weld alongside the access road to the WF Federal 28-3 well site. The release occurred at the approximate coordinates of 36.775959 and -108.322395. Approximately 59 barrels of produced water released approximately 10 feet north of a drainage feature where it continued approximately 70 feet down the unnamed drainage feature where it came to an end. The unnamed drainage feature is not a blue line on a topographic map at 24K scale. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 30 due to an estimated depth to groundwater between 50-100 feet, and a distance to surface water less than 200 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. Soil samples were collected at the source, at the point of release entering the drainage feature, midway down the drainage feature, and at the end of the release for a total of four (4) soil samples. All four (4) samples individual of each other were sent in for laboratory analysis for TPH via USEPA Method 8015, BTEX via USEPA Method 8021, and for total chlorides. The sample collected at the source returned results of 6,500 ppm total chlorides, 0.216 ppm BTEX via USEPA Method 8021, and 111 ppm TPH via USEPA Method 8015. Further down the impacted area the sample collected at the entrance of the drainage feature returned analytical results of 2,600 ppm total chlorides, 0.109 ppm BTEX via USEPA Method 8021, and 34 ppm TPH via USEPA Method 8015. The sample collected midway down the drainage feature returned results of 2,100 ppm total chlorides, 0.1098 ppm BTEX via USEPA Method 8021, and 37 ppm TPH via USEPA Method 8015. The sample collected at the end of the release returned results of 2,500 ppm total chlorides, 0.0049 ppm BTEX via USEPA Method 8021, 1.1 ppm TPH via USEPA Method 8015. (Sample Analytical data and Field Notes attached)

Describe Area Affected and Cleanup Action Taken.\* On May 16, 2014 the line was exposed using non-mechanical equipment. All impacted soil pulled by non-mechanical at the source was disposed of at IEI disposal facility. On May 29, 2014 a crew raked into the dry drainage feature approximately 420 lbs. of gypsum at an application rate of approximately one (1) lb. per linear ft. Activity was pursuant to the approved remediation plan (attached). No further action is required.

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>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Logan Hixon	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: EHS Coordinator	Approval Date: <i>6/24/14</i>	Expiration Date:
E-mail Address: Logan_Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>June 3, 2014</i> Phone: 505-333-3683		

\* Attach Additional Sheets If Necessary

#NCS 141 7535 762

20

## Hixon, Logan

---

**From:** Hixon, Logan  
**Sent:** Thursday, May 15, 2014 5:04 PM  
**To:** BRANDON POWELL (brandon.powell@state.nm.us); Corey.Smith@state.nm.us; Jonathan Kelly (jonathan.kelly@state.nm.us)  
**Cc:** McDaniel, James; Hoekstra, Kurt; Wilson, Mark; Shelby, Ray; Divine, Olan; Nee, Martin; Marriott, Mike  
**Subject:** 24 Hour Notification of Release-WF Federal 28-3 Water Transfer Line (30-045-30379)

Good Evening,

Please accept this email as the required notification of a release at the WF Federal 28-3 (30-045-30379) located in section 28N, Township 30N, Range 14W, San Juan County, New Mexico produced water transfer line along the access road at the approximate Latitude and Longitude of 36.775959, -108.322395. At approximately 13:00 on May 15, 2014 a water leak was found along the access road to the WF Federal 28-3. Approximately 59 barrels of produced water (Fruitland Coal Production Water) was released from the line. The release occurred on the north side of a slight draw that is unnamed and ran 10-15 feet south into the slight draw and then approximately another 70-80 feet west down the unnamed draw where it came to an end. The unnamed draw is not a blue line on a topographic map at 24K scale. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 30 due to an estimated depth to groundwater between 50-100 feet, and a distance to surface water less than 200 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. Soil samples were collected at the source, at the point of release entering the draw, midway down the draw, and at the end of the release for a total of four (4) soil samples. All four (4) samples individual of each other were sent in for laboratory analysis for TPH via USEPA Method 8015, BTEX via USEPA Method 8021, and for total chlorides.

*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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# WF FEDERAL 28-3 WATER TRANSFER LINE

On-Site Form- Samples Needed

Well Lat and long  
36.775959, -108.322395

API  
30-045-30379

State  
NM

County  
SJ

Section  
28  
Township  
30  
Range  
14

Time On-Site  
5/15/14 1:40 AM

Reason for On-Site  
WATER TRANSFER LINE LEAK APPROXIMATELY 59 bbl.

Contractors On Site  
Yes

Spill Amount  
APPROX. 59 Bbl.

Amount Recovered  
0

Material Spilled  
PRODUCED WATER

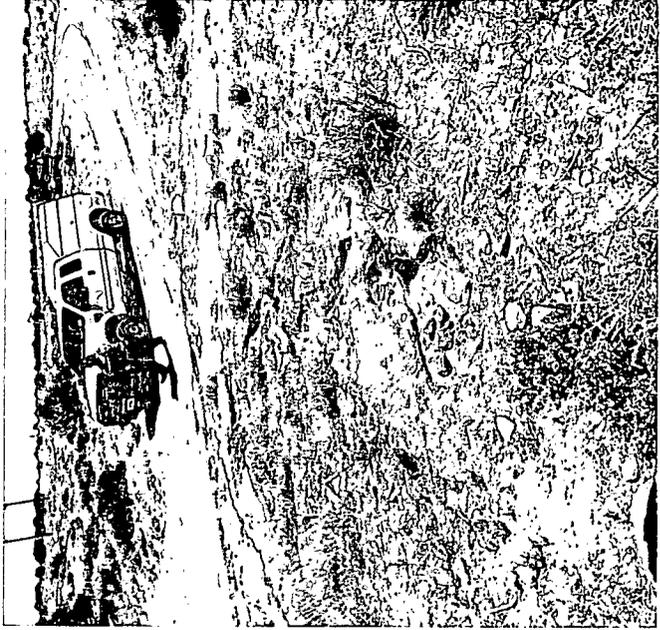
Land Usage  
range

Audit

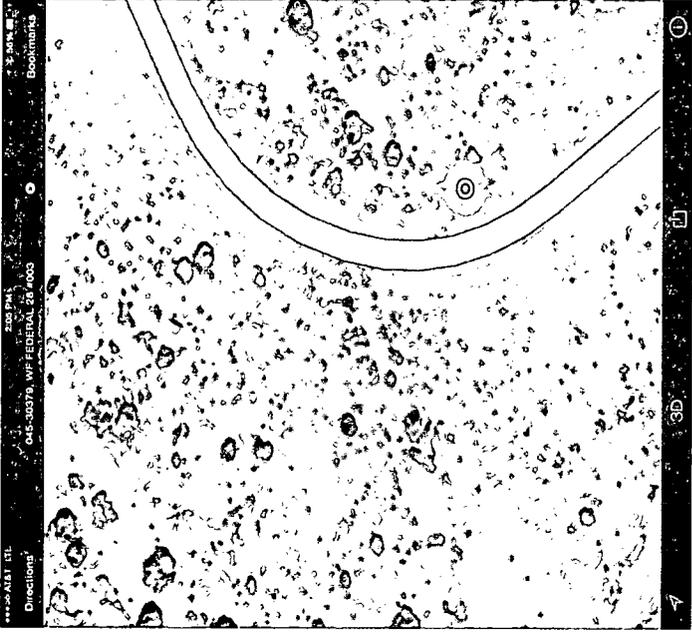
Question	Response	Details
 <p>Appendix 1</p>	 <p>Appendix 2</p>	 <p>Appendix 3</p>
 <p>Appendix 4</p>	 <p>Appendix 5</p>	
 <p>Appendix 6</p>	 <p>Appendix 7</p>	
Ranking		
Distance to groundwater	10	
Distance to surface water	20	
Distance to water well	0	
Total ranking	30	
Sample 1		
Time sample collected	5/15/14 2:00 PM	
Sample description	SOURCE	
Characteristic	wet sand	
OVM (PPM)	n/a	
Analysis Requested	yes	8015,8021, Chl
Sample 2		
Time sample collected	5/15/14 2:10 PM	
Sample description	MID SOURCE	
Characteristic	wet sand	
OVM (PPM)	NA	
Analysis Requested	yes	8015,8021, Chl
Sample 3		
Time sample collected	5/15/14 2:20 PM	
Sample description	MID END	
Characteristic	wet sand	

OVM (PPM)		NA	
Analysis Requested		yes	8015, 8021, Chl
Sample 4			
Time sample collected		5/15/14 2:30 PM	
Sample description		END	
Characteristic		WET SAND	
OVM (PPM)		N/A	
Analysis Requested		yes	8015,8021, Chl
Comments		yes	Samples collected and sent on two day rush ESC
Print Name & Sign	Logan Hixon	5/15/14 3:58 PM	
Company		XTO	
		5/15/14 3:58 PM	

# Media



Appendix I



Appendix J



Appendix K



Appendix 5



Appendix 6



Appendix 7



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859  
Tax I.D. 62-0814289  
Est. 1970

Logan Hixon  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

**Report Summary**  
Tuesday May 27, 2014  
Report Number: L699877  
Samples Received: 05/19/14  
Client Project: 30-045-30379  
Description: WF Federal 28-3

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 R Richards  
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

Logan Hixon  
 XTO Energy - San Juan Division  
 382 County Road 3100  
 Aztec, NM 87410

May 27, 2014

Date Received : May 19, 2014  
 Description : WF Federal 28-3  
 Sample ID : FARLH-051514-1400  
 Collected By :  
 Collection Date : 05/15/14 14:00

ESC Sample # : L699877-01

Site ID :

Project # : 30-045-30379

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	6500	120	mg/kg	9056	05/19/14	10
Total Solids	80.4		%	2540 G-2011	05/20/14	1
Benzene	0.070	0.016	mg/kg	8021/8015	05/20/14	25
Toluene	BDL	0.16	mg/kg	8021/8015	05/20/14	25
Ethylbenzene	0.036	0.016	mg/kg	8021/8015	05/20/14	25
Total Xylene	0.11	0.047	mg/kg	8021/8015	05/20/14	25
TPH (GC/FID) Low Fraction	11.	3.1	mg/kg	GRO	05/20/14	25
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	05/20/14	25
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	05/20/14	25
TPH (GC/FID) High Fraction	100	5.0	mg/kg	3546/DRO	05/20/14	1
Surrogate recovery(%)						
o-Terphenyl	74.9		% Rec.	3546/DRO	05/20/14	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 05/20/14 15:22 Revised: 05/27/14 11:02



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REPORT OF ANALYSIS

May 27, 2014

Logan Hixon  
 XTO Energy - San Juan Division  
 382 County Road 3100  
 Aztec, NM 87410

Date Received : May 19, 2014  
 Description : WF Federal 28-3

Sample ID : FARLH-051514-1410

Collected By :  
 Collection Date : 05/15/14 14:10

ESC Sample # : L699877-02

Site ID :

Project # : 30-045-30379

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	2600	60.	mg/kg	9056	05/19/14	5
Total Solids	83.6		%	2540 G-2011	05/20/14	1
Benzene	0.017	0.015	mg/kg	8021/8015	05/20/14	25
Toluene	BDL	0.15	mg/kg	8021/8015	05/20/14	25
Ethylbenzene	0.044	0.015	mg/kg	8021/8015	05/20/14	25
Total Xylene	0.048	0.045	mg/kg	8021/8015	05/20/14	25
TPH (GC/FID) Low Fraction	12.	3.0	mg/kg	GRO	05/20/14	25
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.5		% Rec.	8021/8015	05/20/14	25
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	05/20/14	25
TPH (GC/FID) High Fraction	22.	4.8	mg/kg	3546/DRO	05/20/14	1
Surrogate recovery(%)						
o-Terphenyl	74.4		% Rec.	3546/DRO	05/20/14	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

May 27, 2014

Logan Hixon  
 XTO Energy - San Juan Division  
 382 County Road 3100  
 Aztec, NM 87410

Date Received : May 19, 2014  
 Description : WF Federal 28-3  
 Sample ID : FARLH-051514-1420  
 Collected By :  
 Collection Date : 05/15/14 14:20

ESC Sample # : L699877-03

Site ID :

Project # : 30-045-30379

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	2100	61.	mg/kg	9056	05/19/14	5
Total Solids	81.9		%	2540 G-2011	05/20/14	1
Benzene	0.027	0.015	mg/kg	8021/8015	05/20/14	25
Toluene	BDL	0.15	mg/kg	8021/8015	05/20/14	25
Ethylbenzene	0.068	0.015	mg/kg	8021/8015	05/20/14	25
Total Xylene	0.076	0.046	mg/kg	8021/8015	05/20/14	25
TPH (GC/FID) Low Fraction	17.	3.0	mg/kg	GRO	05/20/14	25
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	91.6		% Rec.	8021/8015	05/20/14	25
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	05/20/14	25
TPH (GC/FID) High Fraction	20.	4.9	mg/kg	3546/DRO	05/20/14	1
Surrogate recovery(%)						
o-Terphenyl	69.8		% Rec.	3546/DRO	05/20/14	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

Logan Hixon  
 XTO Energy - San Juan Division  
 382 County Road 3100  
 Aztec, NM 87410

May 27, 2014

Date Received : May 19, 2014  
 Description : WF Federal 28-3  
 Sample ID : FARLH-051514-1430  
 Collected By :  
 Collection Date : 05/15/14 14:30

ESC Sample # : L699877-04

Site ID :

Project # : 30-045-30379

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	2500	62.	mg/kg	9056	05/19/14	5
Total Solids	80.1		%	2540 G-2011	05/20/14	1
Benzene	0.0049	0.0031	mg/kg	8021/8015	05/20/14	5
Toluene	BDL	0.031	mg/kg	8021/8015	05/20/14	5
Ethylbenzene	BDL	0.0031	mg/kg	8021/8015	05/20/14	5
Total Xylene	BDL	0.0094	mg/kg	8021/8015	05/20/14	5
TPH (GC/FID) Low Fraction	1.1	0.62	mg/kg	GRO	05/20/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.0		% Rec.	8021/8015	05/20/14	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	05/20/14	5
TPH (GC/FID) High Fraction	BDL	5.0	mg/kg	3546/DRO	05/20/14	1
Surrogate recovery(%)						
o-Terphenyl	76.0		% Rec.	3546/DRO	05/20/14	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 05/20/14 15:22 Revised: 05/27/14 11:02

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L699877-01	WG721390	SAMP	TPH (GC/FID) High Fraction	R2924830	J6

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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XTO Energy - San Juan Division  
 Logan Hixon  
 382 County Road 3100

Quality Assurance Report  
 Level II

Aztec, NM 87410

L699877

May 27, 2014

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG721836	05/20/14 08:03
Chloride	< 10	mg/kg			WG721793	05/19/14 16:47
TPH (GC/FID) High Fraction o-Terphenyl	< 4	mg/kg % Rec.	90.30	50-150	WG721390 WG721390	05/20/14 11:15 05/20/14 11:15
Benzene	< .0005	mg/kg			WG721478	05/19/14 19:24
Ethylbenzene	< .0005	mg/kg			WG721478	05/19/14 19:24
Toluene	< .005	mg/kg			WG721478	05/19/14 19:24
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG721478	05/19/14 19:24
Total Xylene	< .0015	mg/kg			WG721478	05/19/14 19:24
a,a,a-Trifluorotoluene(FID)		% Rec.	99.70	59-128	WG721478	05/19/14 19:24
a,a,a-Trifluorotoluene(PID)		% Rec.	105.0	54-144	WG721478	05/19/14 19:24

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	75.9	73.5	3.28	5	L699643-02	WG721836
Chloride	mg/kg	18.0	14.0	25.0*	20	L699786-03	WG721793

Analyte	Units	Laboratory Known Val	Control Sample Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG721836
Chloride	mg/kg	200	205.	103.	80-120	WG721793
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	60	47.8	79.6 71.90	50-150 50-150	WG721390 WG721390
Benzene	mg/kg	.05	0.0459	91.8	70-130	WG721478
Ethylbenzene	mg/kg	.05	0.0473	94.6	70-130	WG721478
Toluene	mg/kg	.05	0.0474	94.7	70-130	WG721478
Total Xylene	mg/kg	.15	0.145	96.7	70-130	WG721478
a,a,a-Trifluorotoluene(FID)				100.0	59-128	WG721478
a,a,a-Trifluorotoluene(PID)				104.0	54-144	WG721478
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.35	79.0	63.5-137	WG721478
a,a,a-Trifluorotoluene(FID)				99.90	59-128	WG721478
a,a,a-Trifluorotoluene(PID)				112.0	54-144	WG721478

Analyte	Units	Laboratory Result	Control Ref	Sample %Rec	Duplicate	Limit	RPD	Limit	Batch
Chloride	mg/kg	203.	205.	102.		80-120	0.980	20	WG721793
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	53.3	47.8	89.0 83.00		50-150 50-150	11.1	20	WG721390 WG721390

\* 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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Logan Hixon  
382 County Road 3100

Aztec, NM 87410

Quality Assurance Report  
Level II

L699877

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Est. 1970

May 27, 2014

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0495	0.0459	99.0	70-130	7.50	20	WG721478
Ethylbenzene	mg/kg	0.0506	0.0473	101.	70-130	6.76	20	WG721478
Toluene	mg/kg	0.0503	0.0474	101.	70-130	6.08	20	WG721478
Total Xylene	mg/kg	0.154	0.145	103.	70-130	6.35	20	WG721478
a, a, a-Trifluorotoluene (FID)				100.0	59-128			WG721478
a, a, a-Trifluorotoluene (PID)				104.0	54-144			WG721478
TPH (GC/FID) Low Fraction	mg/kg	5.23	4.35	95.0	63.5-137	18.3	20	WG721478
a, a, a-Trifluorotoluene (FID)				101.0	59-128			WG721478
a, a, a-Trifluorotoluene (PID)				114.0	54-144			WG721478

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Chloride	mg/kg	540.	21.0	500	100.	80-120	L699786-05	WG721793
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	98.3	80.6	60	30.0* 61.90	50-150 50-150	L699877-01	WG721390 WG721390
Benzene	mg/kg	0.216	0.000799	.05	86.0	49.7-127	L699374-02	WG721478
Ethylbenzene	mg/kg	0.213	0.00104	.05	85.0	40.8-141	L699374-02	WG721478
Toluene	mg/kg	0.217	0.00349	.05	86.0	49.8-132	L699374-02	WG721478
Total Xylene	mg/kg	0.649	0.00501	.15	86.0	41.2-140	L699374-02	WG721478
a, a, a-Trifluorotoluene (FID)					98.30	59-128		WG721478
a, a, a-Trifluorotoluene (PID)					103.0	54-144		WG721478
TPH (GC/FID) Low Fraction	mg/kg	15.7	0.0	5.5	57.0	28.5-138	L699374-02	WG721478
a, a, a-Trifluorotoluene (FID)					99.10	59-128		WG721478
a, a, a-Trifluorotoluene (PID)					109.0	54-144		WG721478

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Chloride	mg/kg	520.	540.	99.8	80-120	3.77	20	L699786-05	WG721793
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	96.8	98.3	26.9* 63.00	50-150 50-150	1.61	20	L699877-01	WG721390 WG721390
Benzene	mg/kg	0.207	0.216	82.4	49.7-127	4.46	23.5	L699374-02	WG721478
Ethylbenzene	mg/kg	0.202	0.213	80.2	40.8-141	5.43	23.8	L699374-02	WG721478
Toluene	mg/kg	0.205	0.217	80.5	49.8-132	5.93	23.5	L699374-02	WG721478
Total Xylene	mg/kg	0.614	0.649	81.1	41.2-140	5.57	23.7	L699374-02	WG721478
a, a, a-Trifluorotoluene (FID)				97.90	59-128				WG721478
a, a, a-Trifluorotoluene (PID)				102.0	54-144				WG721478
TPH (GC/FID) Low Fraction	mg/kg	17.6	15.7	63.9	28.5-138	11.2	23.6	L699374-02	WG721478
a, a, a-Trifluorotoluene (FID)				98.10	59-128				WG721478
a, a, a-Trifluorotoluene (PID)				109.0	54-144				WG721478

Batch number / Run number / Sample number cross reference

WG721836: R2924477: L699877-01 02 03 04  
WG721793: R2924510: L699877-01 02 03 04  
WG721390: R2924830: L699877-01 02 03 04  
WG721478: R2924886: L699877-01 02 03 04

\* \* 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.'



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**YOUR LAB OF CHOICE**

XTO Energy - San Juan Division  
Logan Hixon  
382 County Road 3100

Quality Assurance Report  
Level II

Aztec, NM 87410

L699877

May 27, 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.



Quote Number	Page <u>1</u> of <u>1</u>
XTO Contact <u>Logan Hixon</u>	XTO Contact Phone # <u>505 386-8014</u>
Email Results to: <u>Logan, Kurt, James</u>	
Well Site/Location <u>WF FADCA 128-3</u>	API Number <u>30-045-30379</u>
Collected By <u>Logan Hixon</u>	Samples on Ice (Y/N)
Company <u>KTD</u>	QA/QC Requested
Signature <u>Jay V</u>	Gray Areas for Lab Use Only
Test Reason <u>line release</u>	
Turnaround	
Standard <input checked="" type="checkbox"/> Next Day <u>rusl</u>	
<input type="checkbox"/> Two Day	
<input type="checkbox"/> Three Day	
<input type="checkbox"/> Std. 5 Bus. Days (by contract)	
Date Needed	

Analysis	
8015 (DRAG)	
8012 (BTEX)	
Chlorides	

Lab Information
Office Abbreviations
Farmington = FAR
Durango = DUR
Bakken = BAK
Raton = RAT
Piceance = PC
Roosevelt = RSV
La Barge = LB
Orangeville = OV
B169

Sample ID	Sample Name	Media	Date	Time	Preservative	No. of Conts.	Sample Number
FARLH-051514-140	Source	S	5-15	1400	COOL	1-402	689877-01
FARLH-051514-140	Mid Source	S	5-15	1410	COOL		02
FARLH-051514-1420	Mid End	L		1420			03
FARLH-051514-1420	End	L		1430			04

Media: Filter = F Soil = S Wastewater = WW Groundwater = GW Drinking Water = DW Sludge = SG Surface Water = SW Air = A Drill Mud = DM Other = OT

Relinquished By: (Signature) <u>Jay V</u>	Date: <u>5-15-14</u>	Time: <u>16:00</u>	Received By: (Signature)	Number of Bottles	Sample Condition
Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)	Temperature: <u>20.2°</u>	Other Information
Relinquished By: (Signature)	Date:	Time:	Received for Lab by: (Signature) <u>RK</u>	Date: <u>5/19/14</u>	

Comments: 5010 0631 9372 20.2° 4402 NCF

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

**From:** [Smith, Cory, EMNRD](#)  
**To:** [Hixon, Logan](#)  
**Subject:** RE: WF Federal 28-3 Remediation Plan  
**Date:** Tuesday, May 27, 2014 8:18:07 AM

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Mr. Hixon,

The below remediation plan is approved for the WF Federal 28-3.

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)

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**From:** Hixon, Logan [[mailto:Logan\\_Hixon@xtoenergy.com](mailto:Logan_Hixon@xtoenergy.com)]  
**Sent:** Thursday, May 22, 2014 2:54 PM  
**To:** Smith, Cory, EMNRD  
**Cc:** McDaniel, James; Hoekstra, Kurt; Wilson, Mark; Divine, Olan  
**Subject:** WF Federal 28-3 Remediation Plan

Good Afternoon,

Attached for your reference are the analytical results and on-site form taken on May 15, 2014 from the WF Federal 28-3 water transfer line release. XTO proposes to remediate the impacted area with gypsum, from the source of the release to the end of the release. Approximately 420 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. 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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