

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: Kurt Hoekstra	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100	
Facility Name: Ohio C Govt # 2E	Facility Type: Gas Well (Basin Dakota)	
Surface Owner: Federal	Mineral Owner	API No.: 30-045-24395

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	26	28N	11W	1025	FNL	1050	FEL	San Juan

Latitude 36.63759 Longitude -107.96726

NATURE OF RELEASE



Type of Release: Produced Water	Volume of Release: 25 BBL's	Volume Recovered: None
Source of Release: Pit Tank	Date and Hour of Occurrence: Time: Unknown	Date and Hour of Discovery: 6-20-2017, 1:00pm.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? N/A	Date and Hour:	
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 6-20-2017 an XTO lease operator noticed the pit tank gauge from the previous week had dropped. Approximately 25 BBLs of produced water was released into the pit cellar. No Produced Water was recovered. EH&S was notified on 6-20-2017 at approximately 1:00pm. An XTO construction crew washed the pit tank and found that the pit tank had an integrity failure and leaked produced water into the pit tank cellar. EHS sent the 24 hour required notification to the OCD on Wednesday 6-21-2017 at approximately 8:25am. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 10 due to an estimated depth to groundwater of greater than 100 feet, greater than 1000 feet from a water source, and distance to an arroyo 200-1000 feet, as discussed with NMOCD representative on location Vanessa Fields. This set the closure standard to 1000 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.* A release has been confirmed based on an integrity failure of the pit tank, and twenty five (25) BBLs of produced water released into the pit tank cellar. On 7-10-2017 XTO excavated the cellar to 10 feet deep and re-sampled, these sample results were still above standards for this site (see attached). On 7-17-2017 XTO excavated another five (5) feet deep to a total depth of 15 feet below the surface in the BGT cellar. This sample returned results below the standards for this site (see 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 "Initial 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: Kurt Hoekstra		Approved by Environmental Specialist: 	
Title: EHS Coordinator		Approval Date: 8/10/2017	Expiration Date:
E-mail Address: Kurt.Hoekstra@xtoenergy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-24-2017 Phone: 505-333-3100			

* Attach Additional Sheets If Necessary

NRF 1717281683

Hoekstra, Kurt

From: Hoekstra, Kurt
Sent: Wednesday, June 21, 2017 8:25 AM
To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); Whitney Thomas (l1thomas@blm.gov)
Cc: McDaniel, James (James_McDaniel@xtoenergy.com); Weaver, John; Trujillo, Marcos; Hixon, Logan; Dawes, Thomas
Subject: Ohio C Govt # 2E Spill

Hello Whitney, Cory, and Vanessa,

Please consider this the required 24 hour notification for a produced water spill at the Ohio C Govt # 2E , API # 30-045-24395,

Unit A, Sec 26, T-28N, R-11W, Lat. 36.63759, Long -107.96726. On 6-20-2017 at approximately 1:00 pm. EHS Supervisor James McDaniel was notified

An XTO lease operator noticed the pit tank gauge from the previous week had dropped. Approximately 25 BBLs of produced water was released into the pit cellar. No Produced Water was recovered.

XTO plans to remove the Pit Tank from the cellar on Friday 6-23-2017 at 9:00 am. and sample below the tank. If anyone has questions or concerns please let me know.

Thank you.

Kurt Hoekstra
EHS Coordinator
XTO Energy
505-333-3202 Office
505-486-9543 Cell
Kurt_Hoekstra@xtoenergy.com
An **ExxonMobil** Subsidiary

July 14, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L921749
Samples Received: 07/12/2017
Project Number: 30-045-24395
Description: Ohio C Govt #2 E

Report To: Kurt Hoekstra
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

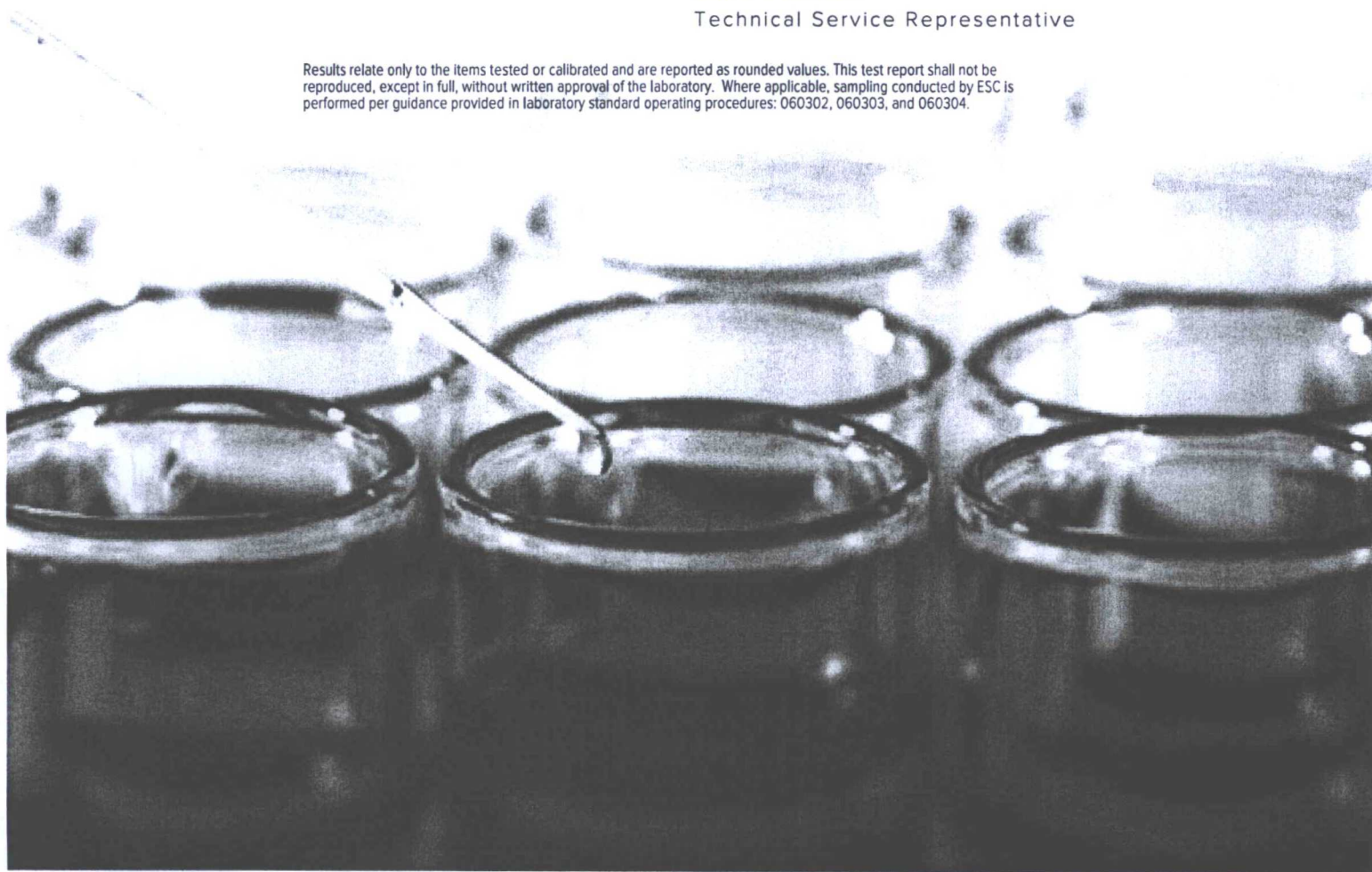
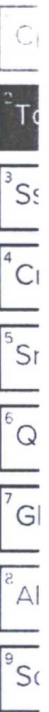


TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
OHIO C GOUT #2E L921749-01	5
Qc: Quality Control Summary	6
Total Solids by Method 2540 G-2011	6
Volatile Organic Compounds (GC) by Method 8015D/GRO	7
Semi-Volatile Organic Compounds (GC) by Method 8015	8
Gl: Glossary of Terms	9
Al: Accreditations & Locations	10
Sc: Chain of Custody	11



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OHIO C GOUT #2E L921749-01 Solid

Collected by
Kurt

Collected date/time
07/10/17 14:55

Received date/time
07/12/17 09:20

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG998334	1	07/13/17 15:15	07/13/17 15:27	KDW
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG998646	1	07/12/17 16:54	07/14/17 09:29	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG998338	10	07/12/17 14:49	07/14/17 16:23	KLM

1

2

3

4

5

6

7

8

9



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative



OHIO C GOUT #2E

Collected date/time: 07/10/17 14:55

SAMPLE RESULTS - 01

L921749

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	07/13/2017 15:27	<u>WG998334</u>

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	6.31		0.105	1	07/14/2017 09:29	<u>WG998646</u>
(S) o,a,a-Trifluorotoluene(FID)	89.7		77.0-120		07/14/2017 09:29	<u>WG998646</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3980		42.0	10	07/14/2017 16:23	<u>WG998338</u>
C28-C40 Oil Range	578		42.0	10	07/14/2017 16:23	<u>WG998338</u>
(S) o-Terphenyl	55.3		18.0-148		07/14/2017 16:23	<u>WG998338</u>

WG998334

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARYL921749-01

Method Blank (MB)

(MB) R3233210-1 07/13/17 15:27

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000100			

L921749-01 Original Sample (OS) • Duplicate (DUP)

(OS) L921749-01 07/13/17 15:27 • (DUP) R3233210-3 07/13/17 15:27

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.2	95.1	1	0.195		5

Laboratory Control Sample (LCS)

(LCS) R3233210-2 07/13/17 15:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
30-045-24395SDG:
L921749DATE/T
07/14/17

WG998646

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

L921749-01

Method Blank (MB)

(MB) R3233313-3 07/14/17 00:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 115				77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3233313-1 07/13/17 23:05 • (LCSD) R3233313-2 07/13/17 23:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.24	5.02	95.2	91.3	70.0-136			4.18	20
(S) <i>a,a,a</i> -Trifluorotoluene(FID)				95.2	96.4	77.0-120				

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
30-045-24395SDG:
L921749DATE/T
07/14/17

WG998338

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

L921749-01

Method Blank (MB)

(MB) R3233339-1 07/14/17 09:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	95.0			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3233339-2 07/14/17 09:56 • (LCSD) R3233339-3 07/14/17 10:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	49.6	44.4	82.7	74.0	50.0-150			11.1	20
(S) o-Terphenyl				103	89.5	18.0-148				

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
30-045-24395SDG:
L921749DATE/T
07/14/17



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:



Quote Number

Page ____ of ____

XTO Contact
KNET

XTO Contact Phone #
505-486-9543

Email Results to:

JAMES.KNET@LOGAN

Well Site/Location

OHIO C GOVT # 2E

API Number

30-045-24395

Saturday Delivery (Y / N)

Collected By

KNET

Samples on Ice

(Y) (N)

Turnaround

Standard

Next Day

X Two Day

Three Day

Same Day

Company

XTO

Test Reason

SPILL / BGT CLOSURE

Gray Areas for Lab Use Only!

Date Needed

Signature

KNET

Sample ID

Sample Name

Media

Date

Time

Preservative

No. of
Conts.

OHIO C GOVT # 2E

BGT CELLAR

S

7-10

2:55

ON ICE

1) 42 Jars

X

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

Relinquished By: (Signature)

Date:

7-11-17

Time:

2:00

Received By: (Signature)

J. V. Brown

Relinquished By: (Signature)

Date:

Time:

1305 8747 4850

Relinquished By: (Signature)

Date:

Time:

Received for Lab by: (Signature)

Comments

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

ESC LAB SCIENCES
Cooler Receipt Form

Client: X Tolman SDG# 921
Cooler Received/Opened On: 7/ 12 /17 Temperature: 5

Received By: Jon Deboard

Signature: J Deboard

Receipt Check List	NP	Yes
COC Seal Present / Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Signed / Accurate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bottles arrive intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Correct bottles used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sufficient volume sent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Applicable	<input type="checkbox"/>	<input type="checkbox"/>
VOA Zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Correct / Checked?	<input type="checkbox"/>	<input type="checkbox"/>



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number:

Samples Received: 7/17/2017 12:40:00PM

Job Number: 98031-0528

Work Order: P707025

Project Name/Location: Ohio C Govt #2E

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', followed by a large 'H'.

Date: 7/18/17

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain'.

Date: 7/18/17

Tim Cain, Quality Assurance Officer

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: Ohio C Govt #2E
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
18-Jul-17 15:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Cellar 15'	P707025-01A	Soil	07/17/17	07/17/17	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

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

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Ohio C Govt #2E
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
18-Jul-17 15:58

BGT Cellar 15'
P707025-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1729002	07/17/17	07/17/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1729005	07/18/17	07/18/17	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1729005	07/18/17	07/18/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %		50-150	1729002	07/17/17	07/17/17	EPA 8015D	
Surrogate: n-Nonane		109 %		50-200	1729005	07/18/17	07/18/17	EPA 8015D	

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envirotech-inc.com
Laboratory - envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Ohio C Govt #2E
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
18-Jul-17 15:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1729002 - Purge and Trap EPA 5030A										
Blank (1729002-BLK1)				Prepared & Analyzed: 17-Jul-17						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.98		"	8.00		112	50-150			
LCS (1729002-BS1)				Prepared & Analyzed: 17-Jul-17						
Gasoline Range Organics (C6-C10)	67.1	20.0	mg/kg	60.9		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		"	8.00		109	50-150			
Matrix Spike (1729002-MS1)				Source: P707025-01		Prepared & Analyzed: 17-Jul-17				
Gasoline Range Organics (C6-C10)	66.7	20.0	mg/kg	60.9	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.68		"	8.00		109	50-150			
Matrix Spike Dup (1729002-MSD1)				Source: P707025-01		Prepared & Analyzed: 17-Jul-17				
Gasoline Range Organics (C6-C10)	65.7	20.0	mg/kg	60.9	ND	108	70-130	1.51	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		"	8.00		108	50-150			

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envirotech-inc.com
laboratory@envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Ohio C Govt #2E
Project Number: 98031-0528
Project Manager: Kurt Hoekstra

Reported:
18-Jul-17 15:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1729005 - DRO Extraction EPA 3570										
Blank (1729005-BLK1)				Prepared & Analyzed: 18-Jul-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	46.0		"	50.0		92.1	50-200			
LCS (1729005-BS1)				Prepared & Analyzed: 18-Jul-17						
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500		99.8	38-132			
Surrogate: n-Nonane	45.2		"	50.0		90.4	50-200			
Matrix Spike (1729005-MS1)				Source: P707025-01		Prepared & Analyzed: 18-Jul-17				
Diesel Range Organics (C10-C28)	599	25.0	mg/kg	500	ND	120	38-132			
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike Dup (1729005-MSD1)				Source: P707025-01		Prepared & Analyzed: 18-Jul-17				
Diesel Range Organics (C10-C28)	553	25.0	mg/kg	500	ND	111	38-132	8.02	20	
Surrogate: n-Nonane	53.0		"	50.0		106	50-200			

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5796 US Highway 64, Farmington, NM 87401

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

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Ohio C Govt #2E
Project Number: 98031-0528
Project Manager: Kurt Hockstra

Reported:
18-Jul-17 15:58

Notes and Definitions

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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Client: XTO ENERGY
 Project: OHIO C. GOVT #2E
 Sampler: KURT
 Phone: 505-486-9543
 Email(s): JAMES, KURT, LOGAN
 Project Manager:

RUSH?
☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only		
Lab WO#		GRO/DRO by 8015/HRD	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS			Lab Number	Correct Cont/Presrv(s) Y/N
Job Number												
P70-70-25												
98031-0528												

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015/HRD	BTEX by 8021	TPH by 418.1	Chloride by 300.0	TCLP Metals	CO Table 910-1	TDS			Lab Number	Correct Cont/Presrv(s) Y/N
BGT CELLAR 15'	7-17	11:50	S	(1) 4oz Jar ^{ON} ice	+									1	Y

Relinquished by: (Signature) <i>[Signature]</i>	Date 7-17	Time 12:40	Received by: (Signature) <i>[Signature]</i>	Date 7/17/17	Time 12:40	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area. Chain of Custody

Notes/Billing info: Via ice in cooler



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envirotech inc. corp.
 10000 1st Avenue NE, Suite 100, Denver, CO 80231

January 27, 2015

Mr. Cory Smith
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, New Mexico 87410

Email: cory.smith@state.nm.us
Phone (505) 334-6178 Ext 115

RE: VARIANCE REQUEST FOR 19.15.17 NMAC TABLE I AND TABLE II

Mr. Smith,

Please accept this letter as a variance request as outlined in 19.15.17.15(A) NMAC. XTO Energy would like to request the replacement of USEPA Method 418.1 for the analysis of Total Petroleum Hydrocarbons (TPH) for USEPA Method 8015M, measuring carbon ranges C6-C36, for all sampling associated with closures and confirmations samples in relation to 19.15.17 NMAC, both in Table I and Table II (2103) and the 'pit rule' passed in 2008.

XTO Energy is requesting this variance on the grounds that USEPA Method 418.1 is an outdated analytical method that reports a full range of hydrocarbons from C₈ through C₄₀. (*Reference: American Petroleum Institute*). The attached table demonstrates the carbon ranges, and the typical hydrocarbon products that can be found in those ranges. As you can see, lube oil ranges from C₂₈-C₃₅. Analytical Method USEPA 418.1 extends past lube oils from C₃₅ through C₄₀. This range of hydrocarbons is above the range that can reasonably be expected to be found in our field in both drilling pits and beneath below grade tanks. USEPA Method 8015M (GRO/DRO + extended analysis) will report hydrocarbons ranging from C₆-C₁₀ for GRO, C₁₀-C₂₈ for DRO, and C₂₈-C₃₆ for extended analysis. This information was provided by Environmental Science Corporation Laboratories. As the information demonstrates, the 8015M analytical method reports as low as C₆, reporting lower than USEPA Method 418.1. Utilizing analytical method 8015M, lighter range hydrocarbons will be reported instead of higher range, heavy hydrocarbons that may not be reasonably expected to be found in our field. Utilization of USEPA Method 8015M will better protect groundwater resources by identifying lighter, more mobile hydrocarbons that USEPA Method 418.1 cannot identify. The heavier range hydrocarbons, C₃₆-C₄₀, that are not identified by USEPA Method 8015M are not a mobile form of hydrocarbon, and are not a threat to human health and the environment. With your acceptance of this variance request, XTO Energy will begin utilizing USEPA Method 8015M in place of USEPA Method 418.1 for all sampling activities associated with 19.15.17 NMAC, both from the rules passed in 2008 and 2013.

Respectfully Submitted,

James McDaniel, CHMM #15676
EH&S Supervisor
XTO Energy, Inc.
Western Division

Carbon Ranges of Typical Hydrocarbons

Hydrocarbon	Carbon Range
Condensate	C2-C12
Aromatics	C5-C7
Gasoline	C7-C11
Kerosene	C6-C16
Diesel Fuel	C8-C21
Fuel Oil #1	C9-C16
Fuel Oil #2	C11-C20
Heating Oil	C14-C20
Lube Oil	C28-C35

Well Below Grade Tank Inspection

Division: Denver
Dates: 6/1/2008-7/1/2017
Type: RouteStop
Type Value: OHIO C

Route Name	StopName	Pumper	Foreman	Well Name	API Well Number	Section	Range	Township	Inspector Name	Record Date	Inspector Name	Record Date
DEN NM Run 55	OHIO C GOVT 002E	Randolph, Steve	Sanders, David	OHIO C GOVT 02E	3004524395	26	11W	28N				

S.I.	8/23/2008	03:20	No	No	No	No	No	No	No	No	No	09:15	1/11/2012	Sr		Well Water Pti	Below Ground
S.I.	10/17/2008	10:45	No	No	No	No	No	No	No	No	No	12:15	12/14/2011	Sr		Well Water Pti	Below Ground
Sr												09:45	11/16/2011	Sr		Well Water Pti	Below Ground
Sr												10:45	10/20/2011	Sr		Well Water Pti	Below Ground
Sr												12:39	9/22/2011	Sr		Well Water Pti	Below Ground
Sr												09:00	8/17/2011	Sr		Well Water Pti	Below Ground
Sr												11:00	7/14/2011	Sr		Well Water Pti	Below Ground
Sr												10:30	6/15/2011	Sr		Well Water Pti	Below Ground
Sr												11:00	5/25/2011	Sr		Well Water Pti	Below Ground
Sr												09:45	4/25/2011	Sr		Well Water Pti	Below Ground
Sr												09:45	2/17/2011	Sr		Well Water Pti	Below Ground
Sr												09:00	1/18/2011	Sr		Well Water Pti	Below Ground
Bls	12/10/2010	09:00	No	No	No	No	No	No	No	No	No	09:00	12/10/2010	Sr		Well Water Pti	Below Ground
Sr	11/10/2010	10:30	No	No	No	No	No	No	No	No	No	10:30	11/10/2010	Sr		Well Water Pti	Below Ground
Sr	10/7/2010	10:15	No	No	No	No	No	No	No	No	No	10:15	10/7/2010	Sr		Well Water Pti	Below Ground
Sr	9/16/2010	10:00	No	No	No	No	No	No	No	No	No	10:00	9/16/2010	Sr		Well Water Pti	Below Ground
Sr	8/17/2010	02:10	No	No	No	No	No	No	No	No	No	02:10	8/17/2010	Sr		Well Water Pti	Below Ground
Sr	7/20/2010	02:10	No	No	No	No	No	No	No	No	No	02:10	7/20/2010	Sr		Well Water Pti	Below Ground
Sr	6/10/2010	01:10	No	No	No	No	No	No	No	No	No	01:10	6/10/2010	Sr		Well Water Pti	Below Ground
rm	5/10/2010	09:45	No	No	No	No	No	No	No	No	No	09:45	5/10/2010	rm		Well Water Pti	Below Ground
rm	4/9/2010	11:00	No	No	No	No	No	No	No	No	No	11:00	4/9/2010	rm		Well Water Pti	Below Ground
rm	3/5/2010	12:40	No	No	No	No	No	No	No	No	No	12:40	3/5/2010	rm		Well Water Pti	Below Ground
Sr	1/11/2010	10:00	No	No	No	No	No	No	No	No	No	10:00	1/11/2010	Sr		Well Water Pti	Below Ground
Sr	12/4/2009	09:45	No	No	No	No	No	No	No	No	No	09:45	12/4/2009	Sr		Well Water Pti	Below Ground
Sr	11/4/2009	10:00	No	No	No	No	No	No	No	No	No	10:00	11/4/2009	Sr		Well Water Pti	Below Ground
rm	10/7/2009	10:00	No	No	No	No	No	No	No	No	No	10:00	10/7/2009	rm		Well Water Pti	Below Ground
rm	9/22/2009	10:15	No	No	No	No	No	No	No	No	No	10:15	9/22/2009	rm		Well Water Pti	Below Ground
Sr	8/7/2009	11:00	No	No	No	No	No	No	No	No	No	11:00	8/7/2009	Sr		Well Water Pti	Below Ground
Sr	7/8/2009	01:00	No	No	No	No	No	No	No	No	No	01:00	7/8/2009	Sr		Well Water Pti	Below Ground
Sr	6/4/2009	01:00	No	No	No	No	No	No	No	No	No	01:00	6/4/2009	Sr		Well Water Pti	Below Ground
Sr	5/7/2009	02:00	No	No	No	No	No	No	No	No	No	02:00	5/7/2009	Sr		Well Water Pti	Below Ground
Sr	4/24/2009	02:15	No	No	No	No	No	No	No	No	No	02:15	4/24/2009	Sr		Well Water Pti	Below Ground
Sr	3/17/2009	02:15	No	No	No	No	No	No	No	No	No	02:15	3/17/2009	Sr		Well Water Pti	Below Ground
Sr	2/28/2009	09:45	No	No	No	No	No	No	No	No	No	09:45	2/28/2009	Sr		Well Water Pti	Below Ground
rm	1/14/2009	03:30	No	No	No	No	No	No	No	No	No	03:30	1/14/2009	rm		Well Water Pti	Below Ground
rm	11/15/2008	01:00	No	No	No	No	No	No	No	No	No	01:00	11/15/2008	rm		Well Water Pti	Below Ground
S.I.		02:00	No	No	No	No	No	No	No	No	No	02:00	10/17/2008	S.I.		Well Water Pti	Below Ground
S.I.		03:20	No	No	No	No	No	No	No	No	No	03:20	8/23/2008	S.I.		Well Water Pti	Below Ground

