

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

OIL CONS. DIV DIST. 3

DEC 11 2014

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: McKenzie A 3	Facility Type: Gas Well	
Surface Owner: Federal Land	Mineral Owner	API No. 30-045-31439

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	9	30 N	12W	660	FSL	990	FEL	San Juan

Latitude: N36*.82194 Longitude: W-108*.09833

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: BGT	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: October 24, 2014
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?	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.*

The below grade tank was taken out of service at the McKenzie A 3 well site due to the P&A'ing of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for Benzene, Total BTEX and the total chlorides, but above the 'pit rule' standards for TPH, confirming that a release has occurred at this location. The site was then ranked according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 20 due to an estimated depth to groundwater of between 50-100 feet, and a distance to surface water between 200-1,000 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

The below grade tank closure sample was analyzed for DRO/GRO via USEPA Method 8015, returning results of 508 ppm TPH. This was above the 100 ppm TPH closure standard determined for this site per NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. On 10/24/14 the excavation of the BGT began. The extent of the excavation reached approximately 14'x14'x 6.5' deep, where a consolidated sandstone layer was exposed at the bottom of the excavation. A composite sample was collected of the bottom of the excavation for laboratory analysis for TPH via USEPA Method 8015. The sample returned results above the standards for the site per NMOCD Guidelines for the Remediation of Leaks, Spills, and Releases. On 10/27/14 request was made to the NMOCD to close the pit due to reaching the furthest vertical extent practical at the consolidated sandstone layer (attached). On 10/28/14 NMOCD approved the closing of the BGT excavation, due to reaching the practical extent, and recommended that XTO apply an oxidizer to assist with in-situ remediation (attached). On 11/7/14 approximately 100 gallons of 4% solution of potassium permanganate was applied to the bottom of the excavation as suggested by NMOCD for in-situ remediation (photos attached). No further action is required regarding this incident. *All documents attached

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>Cathy Hixon</i>	
Title: EHS Coordinator	Approval Date: 1/8/15	Expiration Date:
E-mail Address: Logan.Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12-9-14	Phone: 505-333-3683	

* Attach Additional Sheets If Necessary

#WCS 15008 32 261

26

MCKENZIE A 3

Well lat and long

Flora Vista, NM 87415
United States
(36.821918, -108.098442)

API

30-045-31439

State

NM

County

SJ

Time On-Site

10/24/14, 2:05 PM

Reason for On-Site

BGT CONFIRMATION SMPLE FAILED-remove soil till meet limits for site


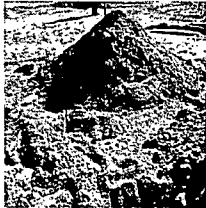
Contractors On Site

No

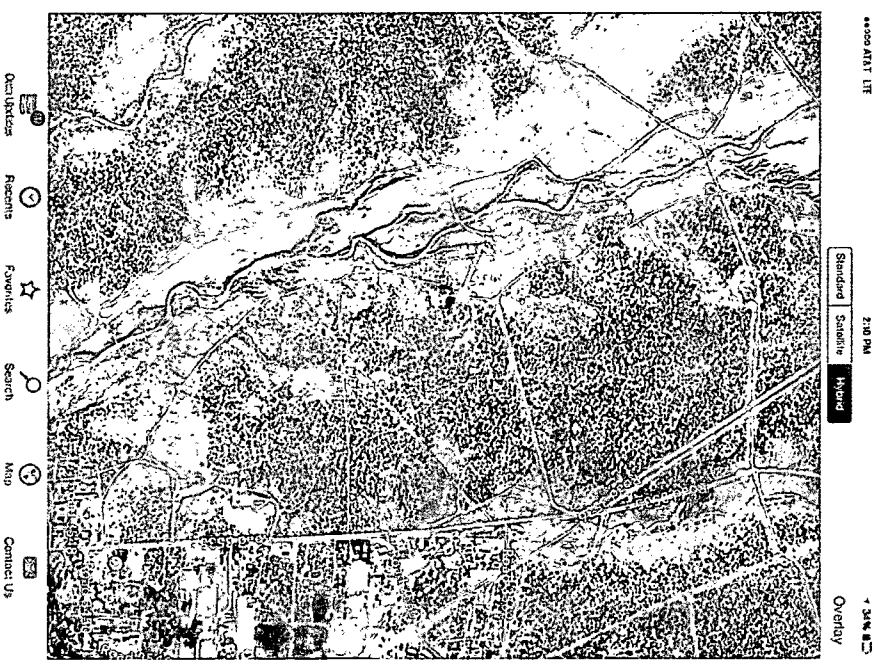
Land Usage

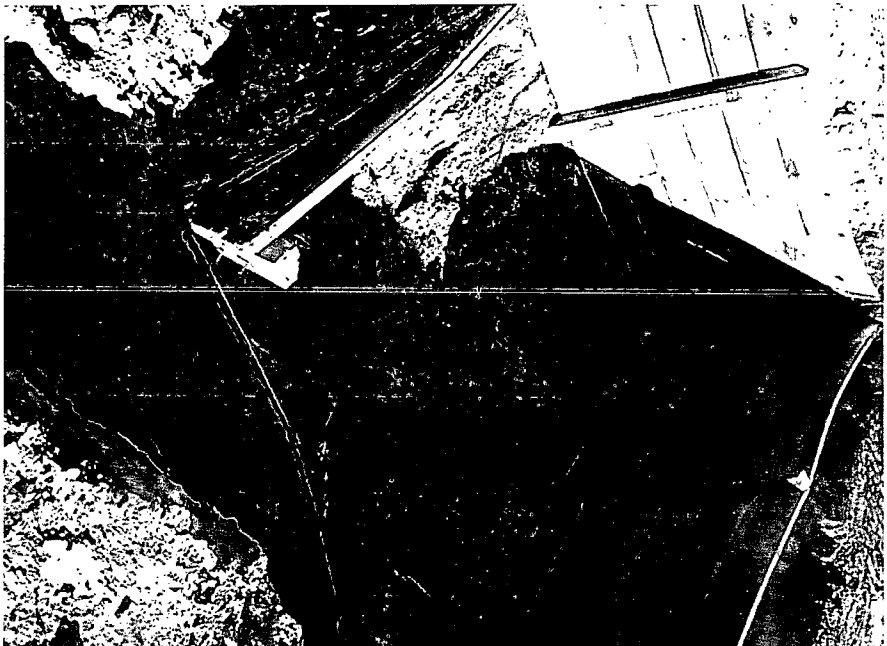
range

Audit

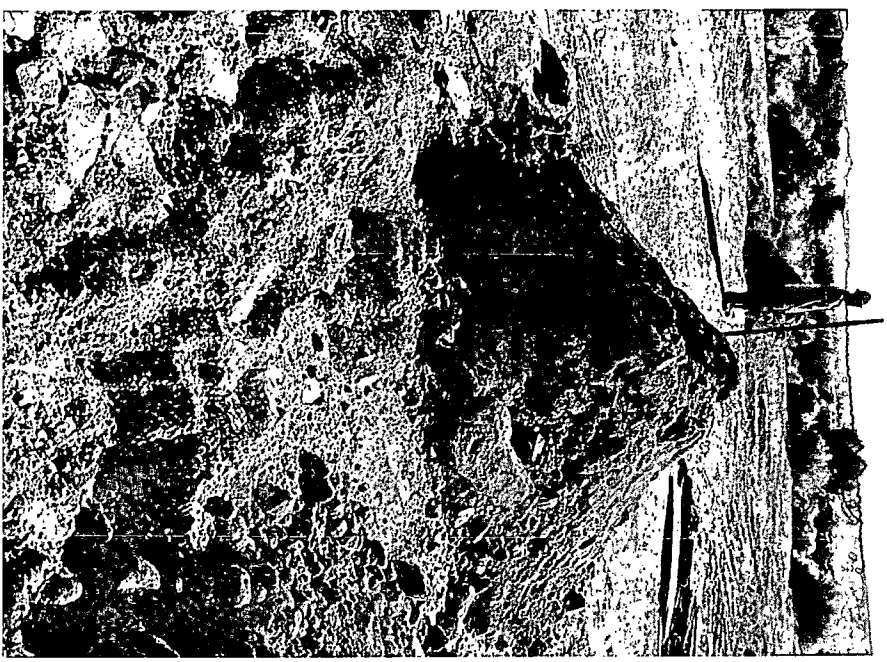
Ranking			
Distance to groundwater		10	
Distance to surface water		10	
Distance to water well		0	
Total ranking		20	
		10/24/14, 2:06 PM	
OVM (PPM)		100	
Sample 1			
Time sample collected		10/24/14, 3:30 PM	
Sample description		bgt composite-6" sandstone	
Characteristic		sand/sandstone	
OVM (PPM)		1.4	
Analysis Requested		yes	8015 (DRO/GRO)
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Appendix 3</p> </div> <div style="text-align: center;">  <p>Appendix 4</p> </div> </div>			
LAT and LONG		Flora Vista, NM 87415 United States (36.821934, -108.098495)	
Comments		yes	Removed approximately 6" across bottom- consolidated sandstone base found
Print Name & Sign	LOGAN H.		
Company	XTO		
	10/24/14, 3:45 PM		

Media





Appendix 3



Appendix 4



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0104

Samples Received: 10/24/2014 3:53:00PM

Job Number: 98031-0528

Work Order: P410108

Project Name/Location: McKenzie A 3

Entire Report Reviewed By:

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

Date: 10/27/14

Tim Cain, Laboratory Manager

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.	Project Name:	McKenzie A 3	
382 CR 3100	Project Number:	98031-0528	Reported:
Aztec NM, 87410	Project Manager:	Logan Hixon	27-Oct-14 13:48

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Composite- 6" Sandstone	P410108-01A	Soil	10/24/14	10/24/14	Glass Jar, 4 oz.

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XTO Energy Inc.	Project Name:	McKenzie A 3	Reported: 27-Oct-14 13:48
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	Logan Hixon	

BGT Composite- 6" Sandstone
P410108-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1443050	10/24/14	10/27/14	EPA 8015D	
Diesel Range Organics (C10-C28)	373	44.9	mg/kg	2	1443051	10/24/14	10/27/14	EPA 8015D	
Surrogate: o-Terphenyl		96.2 %		50-200	1443051	10/24/14	10/27/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		89.4 %		50-150	1443050	10/24/14	10/27/14	EPA 8015D	

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

 Project Name: McKenzie A 3
 Project Number: 98031-0528
 Project Manager: Logan Hixon

 Reported:
 27-Oct-14 13:48

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 1443050 - Purge and Trap EPA 5030A										
Blank (1443050-BLK1)				Prepared: 24-Oct-14 Analyzed: 27-Oct-14						
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.378		"	0.399		94.6	50-150			
LCS (1443050-BS1)				Prepared: 24-Oct-14 Analyzed: 27-Oct-14						
Gasoline Range Organics (C6-C10)	286	9.98	mg/kg	291		98.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.368		"	0.399		92.2	50-150			
Matrix Spike (1443050-MS1)				Source: P410107-01		Prepared: 24-Oct-14 Analyzed: 27-Oct-14				
Gasoline Range Organics (C6-C10)	297	9.99	mg/kg	292	ND	102	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.399		93.6	50-150			
Matrix Spike Dup (1443050-MSD1)				Source: P410107-01		Prepared: 24-Oct-14 Analyzed: 27-Oct-14				
Gasoline Range Organics (C6-C10)	285	9.99	mg/kg	292	ND	97.9	75-125	4.13	15	
Surrogate: 4-Bromochlorobenzene-FID	0.372		"	0.400		93.2	50-150			

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XTO Energy Inc.	Project Name:	McKenzie A 3	Reported: 27-Oct-14 13:48
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	Logan Hixon	

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 1443051 - DRO Extraction EPA 3550M										
Blank (1443051-BLK1)				Prepared: 24-Oct-14 Analyzed: 27-Oct-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	38.0		"	39.9		95.2	50-200			
LCS (1443051-BS1)				Prepared: 24-Oct-14 Analyzed: 27-Oct-14						
Diesel Range Organics (C10-C28)	504	25.0	mg/kg	500		101	38-132			
Surrogate: o-Terphenyl	40.8		"	40.0		102	50-200			
Matrix Spike (1443051-MS1)				Source: P410107-01		Prepared: 24-Oct-14 Analyzed: 27-Oct-14				
Diesel Range Organics (C10-C28)	543	39.9	mg/kg	499	ND	109	38-132			
Surrogate: o-Terphenyl	47.1		"	39.9		118	50-200			
Matrix Spike Dup (1443051-MSD1)				Source: P410107-01		Prepared: 24-Oct-14 Analyzed: 27-Oct-14				
Diesel Range Organics (C10-C28)	658	44.9	mg/kg	499	ND	132	38-132	19.2	20	
Surrogate: o-Terphenyl	57.4		"	39.9		144	50-200			

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XTO Energy Inc.	Project Name:	McKenzie A 3	
382 CR 3100	Project Number:	98031-0528	Reported:
Aztec NM, 87410	Project Manager:	Logan Hixon	27-Oct-14 13:48

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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Hixon, Logan

From: Hixon, Logan
Sent: Monday, October 27, 2014 2:53 PM
To: BRANDON POWELL (brandon.powell@state.nm.us); Smith, Cory, EMNRD
Cc: McDaniel, James (James_McDaniel@xtoenergy.com); Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos (Marcos_Trujillo@xtoenergy.com); Dawes, Thomas (Thomas_Dawes@xtoenergy.com); Daniels, Melissa (Melissa_Daniels@xtoenergy.com)
Subject: BGT Closure Request: McKenzie A 3 (30-045-31439)
Attachments: 10-23-14 Siting Report.pdf; 10-24-14 Final Sample Results.pdf; 10-24-14 Onsite.docx; 10-27-14 Final Sample Results.pdf

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Brandon/Cory,

XTO is requesting to close the BGT at the following site with sample results above the standards for this site per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases ranking. The site (McKenzie A 3) was ranked a 20 due to an estimated distance to surface water of 475', and an estimated depth to groundwater of between 50-100 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. XTO requests this closure due to a consolidated sandstone base located in the bottom of the BGT cellar, XTO has reached the furthest vertical extent practical, and the majority of the TPH make up being derived of DRO, which is non mobile and is not believed to be a threat to human health or the environment. Attached for your review and approval are the siting report, confirmation sample results from 10/23/14, onsite form from 10/24/14, and sample results from 10/24/14. Thank you for your time in regards to this site and have a good day!

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

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From: Smith, Cory, EMNRD
To: Hixon, Logan
Cc: McDaniel, James; Hoekstra, Kurt; Powell, Brandon, EMNRD
Subject: RE: BGT Closure Request: McKenzie A 3 (30-045-31439)
Date: Tuesday, October 28, 2014 8:16:09 AM

Mr. Hixon,

Upon review of the data supplied OCD is approving XTO request to close the BGT excavation at the McKenzie A 3 (30-045-31439) due to reaching practical extent. The OCD recommends that XTO apply an oxidizer to assist with the in-situ remediation.

If you have any questions please call me at your leisure.

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

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Monday, October 27, 2014 2:53 PM
To: Powell, Brandon, EMNRD; Smith, Cory, EMNRD
Cc: McDaniel, James; Hoekstra, Kurt; Espinosa, Tony; Trujillo, Marcos; Dawes, Thomas; Daniels, Melissa
Subject: BGT Closure Request: McKenzie A 3 (30-045-31439)
Importance: High

Brandon/Cory,

XTO is requesting to close the BGT at the following site with sample results above the standards for this site per the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases ranking. The site (McKenzie A 3) was ranked a 20 due to an estimated distance to surface water of 475', and an estimated depth to groundwater of between 50-100 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX. XTO requests this closure due to a consolidated sandstone base located in the bottom of the BGT cellar, XTO has reached the furthest vertical extent practical, and the majority of the TPH make up being derived of DRO, which is non mobile and is not believed to be a threat to human health or the environment. Attached for your review and approval are the siting report,

confirmation sample results from 10/23/14, onsite form from 10/24/14, and sample results from 10/24/14. Thank you for your time in regards to this site and have a good day!

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

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XTO Energy, Inc.
McKenzie A 3 (30-045-31439)

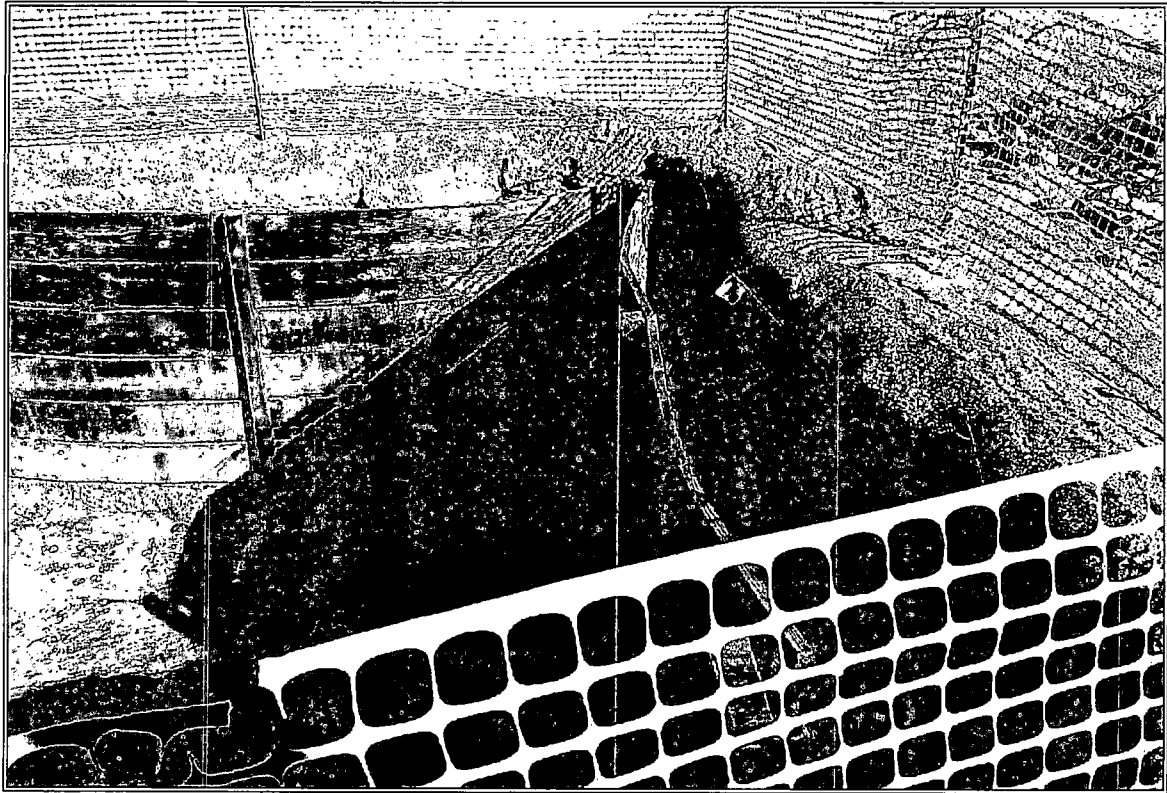


Photo 1: McKenzie A 3 BGT after Application of Potassium Permanganate.

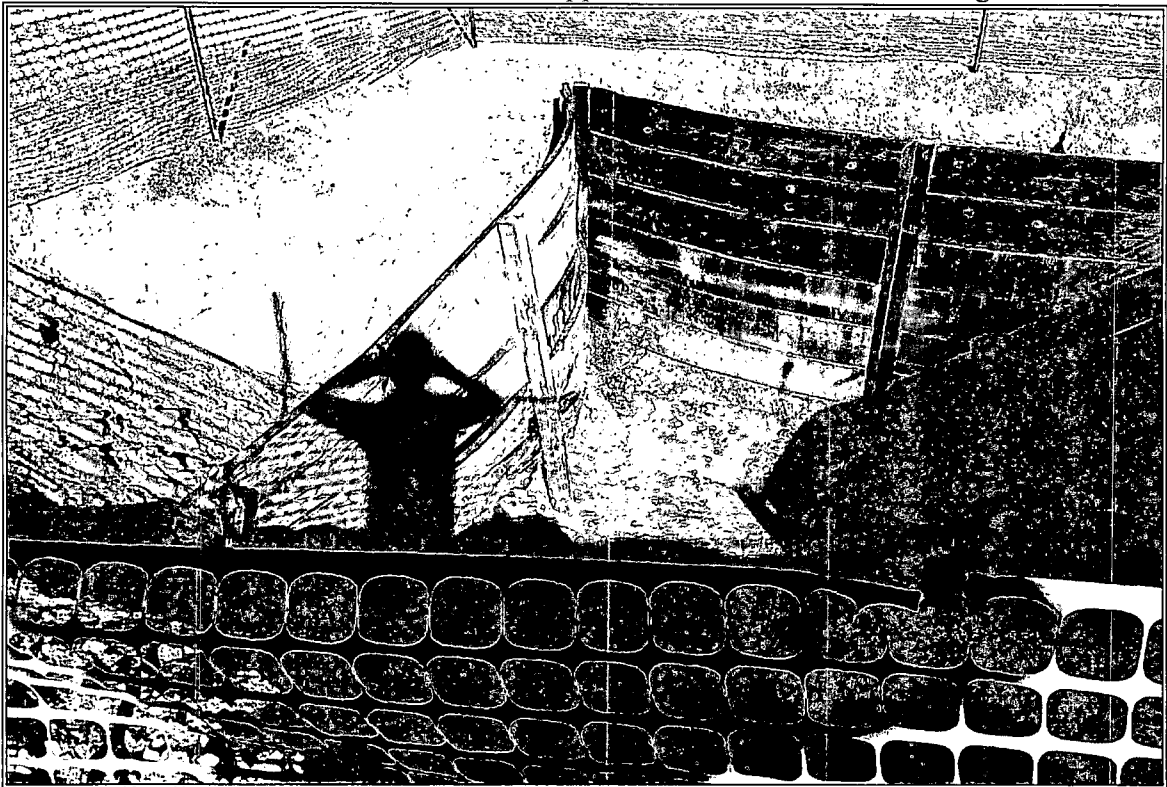


Photo 2: McKenzie A 3 BGT after Application of Potassium Permanganate.



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0102

Samples Received: 10/22/2014 4:15:00PM

Job Number: 98031-0528

Work Order: P410097

Project Name/Location: McKenzie A 3

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'Tim Cain', written over a horizontal line.

Date: 10/24/14

Tim Cain, Laboratory Manager

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: McKenzie A 3
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
24-Oct-14 11:00

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Composite Sandstone	P410097-01A	Soil	10/22/14	10/22/14	Glass Jar, 4 oz.
	P410097-01B	Soil	10/22/14	10/22/14	Glass Jar, 4 oz.

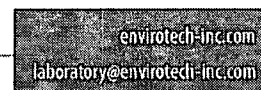
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XTO Energy Inc.	Project Name:	McKenzie A 3	Reported: 24-Oct-14 11:00
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	Logan Hixon	

**BGT Composite Sandstone
P410097-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %		50-150	1443037	10/22/14	10/23/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1443037	10/22/14	10/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	508	39.9	mg/kg	2	1443038	10/22/14	10/23/14	EPA 8015D	
Surrogate: o-Terphenyl		87.3 %		50-200	1443038	10/22/14	10/23/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		88.0 %		50-150	1443037	10/22/14	10/23/14	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	3910	349	mg/kg	10	1443040	10/23/14	10/23/14	EPA 418.1	
Cation/Anion Analysis									
Chloride	34.8	9.82	mg/kg	1	1443039	10/23/14	10/23/14	EPA 300.0	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: McKenzie A 3
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
24-Oct-14 11:00

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1443037 - Purge and Trap EPA 5030A

Blank (1443037-BLK1)

Prepared: 22-Oct-14 Analyzed: 23-Oct-14

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.409 " 0.400 102 50-150

LCS (1443037-BS1)

Prepared: 22-Oct-14 Analyzed: 23-Oct-14

Benzene	18.8	0.10	mg/kg	20.0		94.0	75-125			
Toluene	18.9	0.10	"	20.0		94.6	70-125			
Ethylbenzene	19.1	0.10	"	20.0		95.7	75-125			
p,m-Xylene	38.7	0.20	"	40.0		96.7	80-125			
o-Xylene	19.0	0.10	"	20.0		95.0	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.403 " 0.400 101 50-150

Matrix Spike (1443037-MS1)

Source: P410097-01

Prepared: 22-Oct-14 Analyzed: 23-Oct-14

Benzene	18.7	0.10	mg/kg	20.0	ND	93.8	75-125			
Toluene	19.0	0.10	"	20.0	ND	94.8	70-125			
Ethylbenzene	19.2	0.10	"	20.0	ND	96.1	75-125			
p,m-Xylene	38.9	0.20	"	40.0	ND	97.2	80-125			
o-Xylene	19.2	0.10	"	20.0	ND	96.0	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.398 " 0.400 99.5 50-150

Matrix Spike Dup (1443037-MSD1)

Source: P410097-01

Prepared: 22-Oct-14 Analyzed: 23-Oct-14

Benzene	18.9	0.10	mg/kg	20.0	ND	94.8	75-125	1.01	15	
Toluene	19.2	0.10	"	20.0	ND	96.3	70-125	1.51	15	
Ethylbenzene	19.4	0.10	"	20.0	ND	97.0	75-125	0.842	15	
p,m-Xylene	39.2	0.20	"	40.0	ND	98.2	80-125	0.969	15	
o-Xylene	19.4	0.10	"	20.0	ND	97.0	75-125	1.01	15	

Surrogate: 4-Bromochlorobenzene-PID 0.403 " 0.400 101 50-150

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: McKenzie A 3
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
24-Oct-14 11:00

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 1443037 - Purge and Trap EPA 5030A										
Blank (1443037-BLK1)				Prepared: 22-Oct-14 Analyzed: 23-Oct-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.373		"	0.400		93.3	50-150			
LCS (1443037-BS1)				- Prepared: 22-Oct-14 Analyzed: 23-Oct-14						
Gasoline Range Organics (C6-C10)	269	9.99	mg/kg	292		92.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.366		"	0.400		91.5	50-150			
Matrix Spike (1443037-MS1)				Source: P410097-01		Prepared: 22-Oct-14 Analyzed: 23-Oct-14				
Gasoline Range Organics (C6-C10)	271	10.0	mg/kg	292	ND	92.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.362		"	0.400		90.6	50-150			
Matrix Spike Dup (1443037-MSD1)				Source: P410097-01		Prepared: 22-Oct-14 Analyzed: 23-Oct-14				
Gasoline Range Organics (C6-C10)	273	9.99	mg/kg	292	ND	93.6	75-125	0.638	15	
Surrogate: 4-Bromochlorobenzene-FID	0.364		"	0.400		91.2	50-150			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: McKenzie A 3 Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:00
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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 1443038 - DRO Extraction EPA 3550M										
Blank (1443038-BLK1)				*Prepared: 22-Oct-14 Analyzed: 23-Oct-14						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	35.7		"	39.9		89.5	50-200			
LCS (1443038-BS1)				Prepared: 22-Oct-14 Analyzed: 23-Oct-14						
Diesel Range Organics (C10-C28)	455	25.0	mg/kg	500		91.0	38-132			
Surrogate: o-Terphenyl	38.7		"	40.0		96.8	50-200			
Matrix Spike (1443038-MS1)				Source: P410097-01		Prepared & Analyzed: 23-Oct-14				
Diesel Range Organics (C10-C28)	708	34.9	mg/kg	498	508	40.1	38-132			
Surrogate: o-Terphenyl	42.3		"	39.9		106	50-200			
Matrix Spike Dup (1443038-MSD1)				Source: P410097-01		Prepared & Analyzed: 23-Oct-14				
Diesel Range Organics (C10-C28)	874	35.0	mg/kg	500	508	73.2	38-132	21.0	20	D1
Surrogate: o-Terphenyl	43.2		"	40.0		108	50-200			

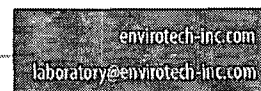
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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: McKenzie A 3
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
24-Oct-14 11:00

Total Petroleum Hydrocarbons by 418.1 - 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 1443040 - 418 Freon Extraction

Blank (1443040-BLK1)

Prepared & Analyzed: 23-Oct-14

Total Petroleum Hydrocarbons ND 35.0 mg/kg

Duplicate (1443040-DUP1)

Source: P410097-01

Prepared & Analyzed: 23-Oct-14

Total Petroleum Hydrocarbons 4150 349 mg/kg 3910 5.93 30

Matrix Spike (1443040-MS1)

Source: P410097-01

Prepared & Analyzed: 23-Oct-14

Total Petroleum Hydrocarbons 5550 349 mg/kg 2010 3910 81.3 80-120

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: McKenzie A 3 Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 24-Oct-14 11:00
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Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1443039 - Anion Extraction EPA 300.0										
Blank (1443039-BLK1)				Prepared & Analyzed: 23-Oct-14						
Chloride	ND	9.84	mg/kg							
LCS (1443039-BS1)				Prepared & Analyzed: 23-Oct-14						
Chloride	490	9.81	mg/kg	490		99.9	90-110			
Matrix Spike (1443039-MS1)				Source: P410097-01 Prepared & Analyzed: 23-Oct-14						
Chloride	531	9.92	mg/kg	496	34.8	100	80-120			
Matrix Spike Dup (1443039-MSD1)				Source: P410097-01 Prepared & Analyzed: 23-Oct-14						
Chloride	529	9.85	mg/kg	492	34.8	100	80-120	0.423	20	

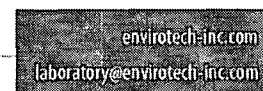
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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: McKenzie A 3
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
24-Oct-14 11:00

Notes and Definitions

DI Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 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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