

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: RP Hargrave K #1E (30-045-25635)	Facility Type: P&A

Surface Owner: Federal	Mineral Owner:	Lease No.:
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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
C	16	27 N	10W	1540	FNL	1520	FWL	San Juan

Latitude: 36.60730 Longitude: -107.88678

NATURE OF RELEASE

Type of Release: Earthen Pit	Volume of Release: UNK	Volume Recovered: NA
Source of Release: Historical Earthen Pit	Date and Hour of Occurrence: NA	Date and Hour of Discovery: May 28, 2013
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? RCVD JUN 14 '13 OIL CONS. DIV.	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*

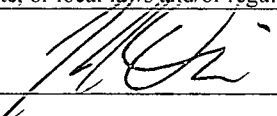
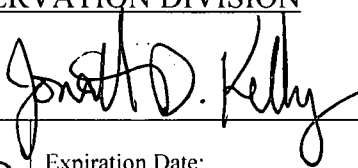
Describe Cause of Problem and Remedial Action Taken.*

During site reclamation activities, some discolored soil was discovered. A sample of the soil was collected, and returned results of 2,420 mg/kg DRO/GRO and 237 mg/kg BTEX. 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 50-100 feet, and a distance to a wash of less than 1,000 feet. This set the closure standard to 100 mg/kg TPH, 10 mg/kg benzene and 50 mg/kg BTEX. Excavation of the suspected historical earthen pit began immediately.

Describe Area Affected and Cleanup Action Taken.*

On May 29, 2013, excavation activities began. The impacted area was excavated to extents of approximately 25' x 30' x 6-8' deep. Composite samples were then collected from the NE wall, NW wall, SW Wall and the floor at 6-8 feet deep for TPH via USEPA Method 8015, and benzene and BTEX via USEPA Method 8021. The samples for the NE wall, NW wall and the SW wall returned results below the regulatory limits determined for this site, but the floor returned results of 95.8 mg/kg BTEX, requiring additional excavation activities. On June 3, 2013, excavation activities continued. Excavation continued until extents were approximately 30' x 30' x 10' deep. Composite samples were then collected from the bottom at 10' deep, and from the SE wall. The samples were analyzed for DRO/GRO via USEPA Method 8015, and for BTEX via USEPA Method 8021. Both samples returned results below the regulatory limits determined for this location. Approximately 250 cubic yards of impacted soils were disposed of at IEI. The excavation was backfilled using material on-site for the recontouring of the well location for the final reclamation. All laboratory analysis and applicable field notes 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: 	OIL CONSERVATION DIVISION	
Printed Name: James McDaniel, CHMM #15676	Approved by District Supervisor: 	
Title: EH&S Supervisor	Approval Date: <u>7/9/2013</u>	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:	Attached ☐
Date: <u>6/12/2013</u>	Phone: <u>505-333-3701</u>	

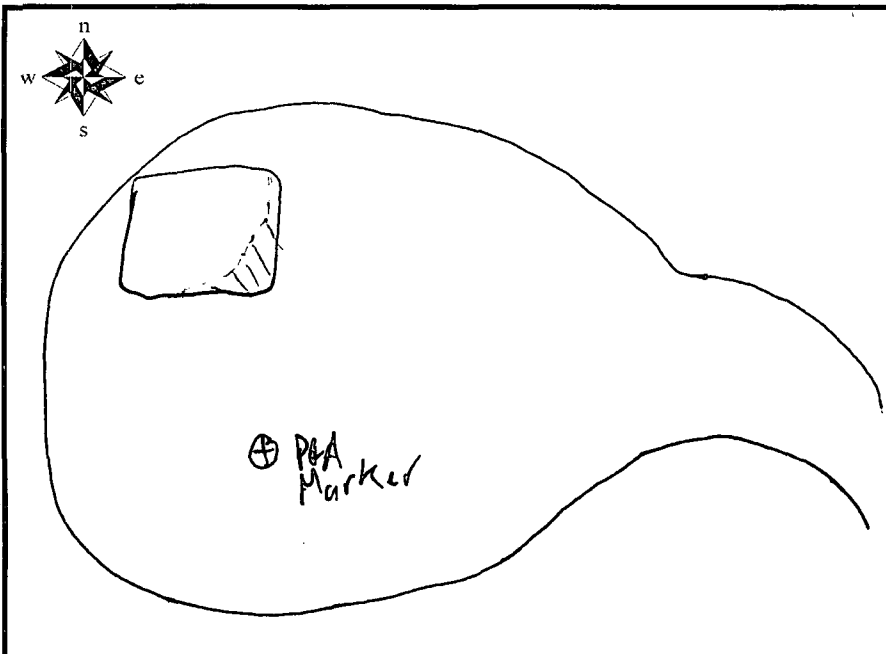
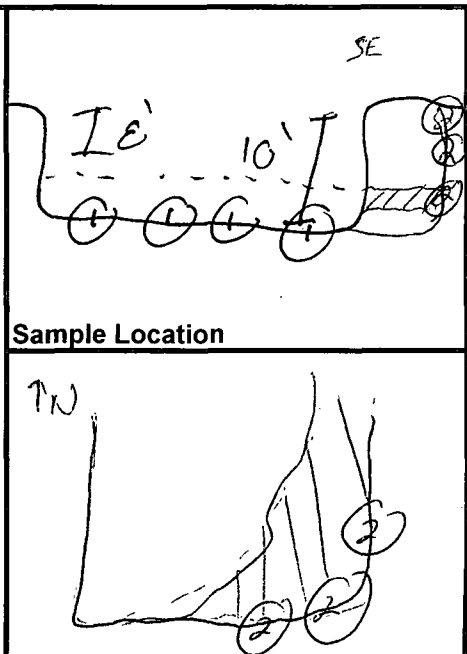


NJK1319048051



XTO Energy On-Site Form

Well Name R P Hargrave K #1E API # 30-045-25035
Section 16C Township 27N Range 10W County San Juan
Contractors On-Site Adobe Time On-Site 1155 Time Off-Site 1600
Spill Amount — bbls Spilled (Oil/Produced W/Other Historical) RCVRD —
Land Use (Range / Residential / Tribe BLM) Excavation 30 x 30 x 10' deep

 Site Diagram	 Sample Location
Comments <u>* thin layer of impacted material removed from SE wall, ~ 10'</u>	Number of Photos Taken

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	—	NA
1445	1	Bottom of 10'	Dense gray shale	—	8015, 8021
1545	2	SE Wall Comp	Sandy loam, some shale	—	8015, 8021

Name (Print) James McDaniel Date 6/3/13
Name (Signature) [Signature] Company XTO



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 15616

Samples Received: 5/28/2013 4:10:00PM

Job Number: 98031-0528

Work Order: P305085

Project Name/Location: RP Hargrave K #1E

Entire Report Reviewed By:

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

Date: 5/30/13

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.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
30-May-13 09:30

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Dark Soil Composite	P305085-01A	Soil	05/28/13	05/28/13	Glass Jar, 4 oz.

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

 Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: James McDaniel

Reported:
 30-May-13 09:30

Dark Soil Composite
P305085-01 (Solid)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
Volatile Organics by EPA 8021									
Benzene	ND	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
Toluene	13600	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
Ethylbenzene	17300	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
p,m-Xylene	169000	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
o-Xylene	37700	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
Total BTEX	237000	500	ug/kg	10	1322006	28-May-13	29-May-13	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %		80-120	1322006	28-May-13	29-May-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %		80-120	1322006	28-May-13	29-May-13	EPA 8021B	
Surrogate: Fluorobenzene		96.0 %		80-120	1322006	28-May-13	29-May-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	1570	4.98	mg/kg	1	1322005	28-May-13	29-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	847	4.98	mg/kg	1	1322005	28-May-13	29-May-13	EPA 8015D	
GRO and DRO Combined Fractions	2420	4.98	mg/kg	1	1322005	28-May-13	29-May-13	EPA 8015D	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
30-May-13 09:30

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
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Batch 1322006 - Purge and Trap EPA 5030A

Blank (1322006-BLK1)

Prepared: 28-May-13 Analyzed: 29-May-13

Benzene	ND	50.0	ug/kg							
Toluene	ND	50.0	"							
Ethylbenzene	ND	50.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	50.0	"							
Total BTEX	ND	50.0	"							
Surrogate: Bromochlorobenzene	45.6		"	50.0		91.3	80-120			
Surrogate: 1,4-Difluorobenzene	47.2		"	50.0		94.4	80-120			
Surrogate: Fluorobenzene	46.1		"	50.0		92.2	80-120			

Duplicate (1322006-DUP1)

Source: P305086-02

Prepared: 28-May-13 Analyzed: 29-May-13

Benzene	ND	49.3	ug/kg		ND				30	
Toluene	ND	49.3	"		ND				30	
Ethylbenzene	ND	49.3	"		ND				30	
p,m-Xylene	ND	49.3	"		ND				30	
o-Xylene	ND	49.3	"		ND				30	
Surrogate: Bromochlorobenzene	48.4		"	49.3		98.2	80-120			
Surrogate: 1,4-Difluorobenzene	47.8		"	49.3		97.0	80-120			
Surrogate: Fluorobenzene	47.3		"	49.3		95.9	80-120			

Matrix Spike (1322006-MS1)

Source: P305086-02

Prepared: 28-May-13 Analyzed: 29-May-13

Benzene	48.8		ug/L	50.0	0.26	97.2	39-150			
Toluene	48.8		"	50.0	0.50	96.5	46-148			
Ethylbenzene	48.6		"	50.0	0.18	96.8	32-160			
p,m-Xylene	96.7		"	100	0.34	96.4	46-148			
o-Xylene	48.4		"	50.0	0.38	96.0	46-148			
Surrogate: Bromochlorobenzene	2340		ug/kg	2490		93.9	80-120			
Surrogate: 1,4-Difluorobenzene	2410		"	2490		96.7	80-120			
Surrogate: Fluorobenzene	2390		"	2490		96.1	80-120			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: RP Hargrave K #1E Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 30-May-13 09:30
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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
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Batch 1322005 - GRO/DRO Extraction EPA 3550C

Blank (1322005-BLK1)				Prepared: 28-May-13 Analyzed: 30-May-13						
Gasoline Range Organics (C6-C10)	ND	4.96	mg/kg							
Diesel Range Organics (C10-C28)	ND	4.96	"							
GRO and DRO Combined Fractions	ND	4.96	"							
Duplicate (1322005-DUP1)				Source: P305086-02		Prepared: 28-May-13 Analyzed: 30-May-13				
Gasoline Range Organics (C6-C10)	ND	4.89	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	7.68	4.89	"		11.0			35.2	30	DI
Matrix Spike (1322005-MS1)				Source: P305086-02		Prepared: 28-May-13 Analyzed: 30-May-13				
Gasoline Range Organics (C6-C10)	252		mg/L	250	0.29	101	75-125			
Diesel Range Organics (C10-C28)	265		"	250	10.5	102	75-125			

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
30-May-13 09:30

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

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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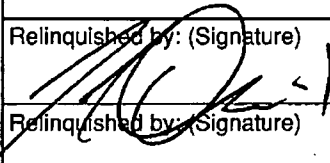
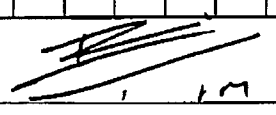
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CHAIN OF CUSTODY RECORD

15616

Page 7 of 7

Client: XTO			Project Name / Location: R P Hargrave K #1E			ANALYSIS / PARAMETERS													
Email results to: James McDaniel			Sampler Name: James McDaniel			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 98031-0528																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl	cool												
Dark Soil Composite	5/26/13	1515	P305085-01	1/4oz			X	X	X									Y	Y
Relinquished by: (Signature) 					Date	Time	Received by: (Signature) 					Date	Time						
Relinquished by: (Signature)					5/28/13	1610	Received by: (Signature)					5/28/13	1610						
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			

RUSH



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Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 15619

Samples Received: 5/29/2013 11:45:00AM

Job Number: 98031-0528

Work Order: P305090

Project Name/Location: RP Hargrave K #1E

Entire Report Reviewed By:

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

Date: 5/31/13

Tim Cain, Laboratory Manager

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: James McDaniel

Reported:
 31-May-13 14:31

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-080632-052913-JK-Floor	P305090-01A	Soil	05/29/13	05/29/13	Glass Jar, 4 oz.
S-080632-052913-JK-NE	P305090-02A	Soil	05/29/13	05/29/13	Glass Jar, 4 oz.
S-080632-052913-JK-NW	P305090-03A	Soil	05/29/13	05/29/13	Glass Jar, 4 oz.
S-080632-052913-JK-SW	P305090-04A	Soil	05/29/13	05/29/13	Glass Jar, 4 oz.

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: James McDaniel

Reported:
31-May-13 14:31

S-080632-052913-JK-Floor
P305090-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
Toluene	1760	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
Ethylbenzene	17600	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
p,m-Xylene	62600	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
o-Xylene	13900	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
Total BTEX	95800	499	ug/kg	10	1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: Fluorobenzene		94.8 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	34.4	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	11.3	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
GRO and DRO Combined Fractions	45.7	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	

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XTO Energy Inc.
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 Aztec NM, 87410

 Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: James McDaniel

 Reported:
 31-May-13 14:31

S-080632-052913-JK-NE
P305090-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Toluene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Ethylbenzene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
p,m-Xylene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
o-Xylene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Total BTEX	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Surrogate: Fluorobenzene		107 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

 Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: James McDaniel

Reported:
 31-May-13 14:31

S-080632-052913-JK-NW
P305090-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Toluene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Ethylbenzene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
p,m-Xylene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
o-Xylene	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
Total BTEX	ND	49.9	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		99.4 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		97.4 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
<i>Surrogate: Fluorobenzene</i>		96.1 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D	

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: RP Hargrave K #1E Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 31-May-13 14:31
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S-080632-052913-JK-SW
P305090-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
Toluene	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
Ethylbenzene	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
p,m-Xylene	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
o-Xylene	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
Total BTEX	ND	50.0	ug/kg	1	1322010	29-May-13	30-May-13	EPA 8021B		
Surrogate: Bromochlorobenzene		99.0 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B		
Surrogate: 1,4-Difluorobenzene		90.7 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B		
Surrogate: Fluorobenzene		89.2 %	80-120		1322010	29-May-13	30-May-13	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D		
GRO and DRO Combined Fractions	ND	5.00	mg/kg	1	1322011	29-May-13	30-May-13	EPA 8015D		

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: RP Hargrave K #1E Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 31-May-13 14:31
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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
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Batch 1322010 - Purge and Trap EPA 5030A

Blank (1322010-BLK1)		Prepared & Analyzed: 29-May-13								
Benzene	ND	49.9	ug/kg							
Toluene	ND	49.9	"							
Ethylbenzene	ND	49.9	"							
p,m-Xylene	ND	49.9	"							
o-Xylene	ND	49.9	"							
Total BTEX	ND	49.9	"							
Surrogate: Bromochlorobenzene	47.9		ug/L	50.0		95.8	80-120			
Surrogate: 1,4-Difluorobenzene	47.6		"	50.0		95.3	80-120			
Surrogate: Fluorobenzene	47.4		"	50.0		94.9	80-120			

Duplicate (1322010-DUP1)		Source: P305089-01		Prepared & Analyzed: 29-May-13						
Benzene	ND	50.0	ug/kg		ND				30	
Toluene	60.7	50.0	"		55.5			9.09	30	
Ethylbenzene	ND	50.0	"		ND				30	
p,m-Xylene	61.2	50.0	"		50.8			18.6	30	
o-Xylene	ND	50.0	"		ND				30	
Surrogate: Bromochlorobenzene	46.0		ug/L	50.0		92.0	80-120			
Surrogate: 1,4-Difluorobenzene	48.9		"	50.0		97.8	80-120			
Surrogate: Fluorobenzene	48.4		"	50.0		96.8	80-120			

Matrix Spike (1322010-MS1)		Source: P305089-01		Prepared: 29-May-13 Analyzed: 30-May-13						
Benzene	47.1		ug/L	50.0	0.37	93.4	39-150			
Toluene	46.9		"	50.0	1.11	91.6	46-148			
Ethylbenzene	46.1		"	50.0	0.45	91.4	32-160			
p,m-Xylene	92.0		"	100	1.02	90.9	46-148			
o-Xylene	46.5		"	50.0	0.74	91.5	46-148			
Surrogate: Bromochlorobenzene	46.0		"	50.0		91.9	80-120			
Surrogate: 1,4-Difluorobenzene	45.6		"	50.0		91.2	80-120			
Surrogate: Fluorobenzene	45.4		"	50.0		90.9	80-120			

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: RP Hargrave K #1E Project Number: 98031-0528 Project Manager: James McDaniel	Reported: 31-May-13 14:31
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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
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Batch 1322011 - GRO/DRO Extraction EPA 3550C

Blank (1322011-BLK1)

Prepared: 29-May-13 Analyzed: 30-May-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg
Diesel Range Organics (C10-C28)	ND	4.99	"
GRO and DRO Combined Fractions	ND	4.99	"

Duplicate (1322011-DUP1)

Source: P305089-01

Prepared: 29-May-13 Analyzed: 30-May-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	ND	30
Diesel Range Organics (C10-C28)	ND	4.99	"	ND	30

Matrix Spike (1322011-MS1)

Source: P305089-01

Prepared: 29-May-13 Analyzed: 30-May-13

Gasoline Range Organics (C6-C10)	261	5.26	mg/kg	263	ND	99.0	75-125
Diesel Range Organics (C10-C28)	272	5.26	"	263	ND	103	75-125

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XTO Energy Inc.	Project Name:	RP Hargrave K #1E	Reported: 31-May-13 14:31
382 CR 3100	Project Number:	98031-0528	
Aztec NM, 87410	Project Manager:	James McDaniel	

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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Page 10 of 10

Client: XTO ENERGY			Project Name / Location: RP HARGRAVE K #1E			ANALYSIS / PARAMETERS													
Email results to: JAMES MCDANIEL			Sampler Name: J KIRCHNER			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 98031-0528																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
S-080632-052913-JK-FLOOR	5-29	955	P305090-01	1 / 4 _{oz}															
S-080632-052913-JK-NE	5-29	1025	P305090-02	1 / 4 _{oz}															
S-080632-052913-JK-NW	5-29	1025	P305090-03	1 / 4 _{oz}															
S-080632-052913-JK-SW	5-29	1025	P305090-04	1 / 4 _{oz}															
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time								
				5/29	1145					5/29/13	1145								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



Analytical Report

Report Summary

Client: XTO Energy Inc.
Chain Of Custody Number: 15631
Samples Received: 6/3/2013 4:40:00PM
Job Number: 98031-0528
Work Order: P306005
Project Name/Location: RP Hargrave K #1E

Entire Report Reviewed By:

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

Date: 6/5/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 6/4/13 3:06 pm

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: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: Logan Hixon

Reported:
 05-Jun-13 15:03

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SE Wall Composite	P306005-01A	Soil	06/03/13	06/03/13	Glass Jar, 4 oz.
Bottom @ 10'	P306005-02A	Soil	06/03/13	06/03/13	Glass Jar, 4 oz.

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: RP Hargrave K #1E Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 05-Jun-13 15:03
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SE Wall Composite
P306005-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Toluene	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Ethylbenzene	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
p,m-Xylene	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
o-Xylene	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Total BTEX	ND	49.8	ug/kg	1	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		96.2 %		80-120	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %		80-120	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		95.2 %		80-120	1323008	04-Jun-13	04-Jun-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1323002	04-Jun-13	04-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	1	1323002	04-Jun-13	04-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg	1	1323002	04-Jun-13	04-Jun-13	EPA 8015D	

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

 Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: Logan Hixon

 Reported:
 05-Jun-13 15:03

Bottom @ 10'
P306005-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Toluene	ND	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Ethylbenzene	116	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
p,m-Xylene	1090	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
o-Xylene	98.6	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Total BTEX	1300	49.8	ug/kg	l	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		99.6 %		80-120	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.9 %		80-120	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		94.3 %		80-120	1323008	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	9.16	5.00	mg/kg	l	1323002	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	87.4	5.00	mg/kg	l	1323002	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	96.6	5.00	mg/kg	l	1323002	04-Jun-13	04-Jun-13	04-Jun-13	EPA 8015D	

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
05-Jun-13 15:03

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
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Batch 1323008 - Purge and Trap EPA 5030A

Blank (1323008-BLK1)

Prepared: 03-Jun-13 Analyzed: 04-Jun-13

Benzene	ND	0.99	ug/kg							
Toluene	ND	0.99	"							
Ethylbenzene	ND	0.99	"							
p,m-Xylene	ND	0.99	"							
o-Xylene	ND	0.99	"							
Total BTEX	ND	0.99	"							
Surrogate: Bromochlorobenzene	45.3		"	49.7		91.2	80-120			
Surrogate: 1,4-Difluorobenzene	49.1		"	49.7		98.8	80-120			
Surrogate: Fluorobenzene	47.3		"	49.7		95.2	80-120			

Duplicate (1323008-DUP1)

Source: P306003-01

Prepared: 03-Jun-13 Analyzed: 05-Jun-13

Benzene	ND	49.8	ug/kg		ND				30	
Toluene	ND	49.8	"		ND				30	
Ethylbenzene	ND	49.8	"		ND				30	
p,m-Xylene	ND	49.8	"		ND				30	
o-Xylene	ND	49.8	"		ND				30	
Surrogate: Bromochlorobenzene	50.5		"	49.8		101	80-120			
Surrogate: 1,4-Difluorobenzene	50.4		"	49.8		101	80-120			
Surrogate: Fluorobenzene	51.9		"	49.8		104	80-120			

Matrix Spike (1323008-MS1)

Source: P306003-01

Prepared: 03-Jun-13 Analyzed: 05-Jun-13

Benzene	47.4	1.00	ug/kg	49.8	ND	95.1	39-150			
Toluene	47.2	1.00	"	49.8	ND	94.6	46-148			
Ethylbenzene	47.1	1.00	"	49.8	ND	94.5	32-160			
p,m-Xylene	93.3	1.00	"	99.7	ND	93.6	46-148			
o-Xylene	46.6	1.00	"	49.8	ND	93.4	46-148			
Surrogate: Bromochlorobenzene	46.7		"	49.8		93.7	80-120			
Surrogate: 1,4-Difluorobenzene	47.0		"	49.8		94.3	80-120			
Surrogate: Fluorobenzene	47.7		"	49.8		95.7	80-120			

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XTO Energy Inc.
 382 CR 3100
 Aztec NM, 87410

 Project Name: RP Hargrave K #1E
 Project Number: 98031-0528
 Project Manager: Logan Hixon

Reported:
 05-Jun-13 15:03

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
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Batch 1323002 - GRO/DRO Extraction EPA 3550C
Blank (1323002-BLK1)

Prepared: 03-Jun-13 Analyzed: 04-Jun-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg
Diesel Range Organics (C10-C28)	ND	4.99	"
GRO and DRO Combined Fractions	ND	4.99	"

Duplicate (1323002-DUP1)

Source: P306001-01

Prepared: 03-Jun-13 Analyzed: 04-Jun-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	ND				30
Diesel Range Organics (C10-C28)	5.98	5.00	"	5.34			11.2	30

Matrix Spike (1323002-MS1)

Source: P306001-01

Prepared: 03-Jun-13 Analyzed: 04-Jun-13

Gasoline Range Organics (C6-C10)	265	5.26	mg/kg	263	ND	101	75-125
Diesel Range Organics (C10-C28)	271	5.26	"	263	5.34	101	75-125

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: RP Hargrave K #1E
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
05-Jun-13 15:03

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			Project Name / Location: R P Hargrave K # 1E			ANALYSIS / PARAMETERS															
Email results to: james.mcdaniel@xtocorp.org			Sampler Name: J McDaniel			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: 98031-0528																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO ₃	HCl	Boo														
SE wall composite	6/3/13	1545	P306005-01	1/4oz			X	X	X											Y	Y
Bottom @ 10'	6/3/13	1445	P306005-02	1/4oz			X	X	X											Y	Y
Relinquished by: (Signature) <i>[Signature]</i>					Date	Time	Received by: (Signature) <i>[Signature]</i>										Date	Time			
Relinquished by: (Signature)					6/3/13	1630	Received by: (Signature)										6/3/13	1640			
Sample Matrix																					
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																					
☐ Sample(s) dropped off after hours to secure drop off area. 																					