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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

OPERATOR								🗌 Initial Report 🛛 Final Rep					rt	
Name of Co							ırt Hoekstra							
Address: 38			lew Mexi	co 87410			No.: (505) 333-3							
Facility Nar	ne: OH Ra	indel # 7				Facility Typ	e: Gas Well (Ba	asin Dakot	ta)				_	
Surface Ow	ner: Triba			Mineral	Owner			A	API No	.: 30-045-2	4749			
					ATIO	OF RE	LEASE							
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West	t Line	County				
D	15	26N	11W	1150	F	NL	1150	FWL	<u> </u>	DIV	DIST. 3			
				Latitude 36.4			ude -107.99572			AUG 0 1 2014				
CD 1	D 1	1 137		NA'	TURE	OF REL		1		<u>-</u>			_	
Type of Rele Source of Re							Release: Unknow Your of Occurrence			Recovered: N Hour of Disc		4-11-2014	_	
Source of ite	icuse. Belo	W Grade Taris	•			Unknown	ioui oi occurrenc	. D	ate and	i ioui oi Dis	overy.	4-11-2014		
Was Immedia	ate Notice (If YES, To	Whom?			,			_	
			Yes _	No 🛛 Not F	Required	ed , i. :								
By Whom?		1 10				Date and I		1 357 .					_	
Was a Water			Yes 🛚			If YES, V	olume Impacting t	ine Waterco	ourse.					
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*	•										
The soil bene sample return at 2450 ppm Guidelines for distance to a benzene, and Describe Are location. Add of TPH 334 papproximatel 8015 at < 34. Method 8015 of < 35 ppm further action	eath the BG ned results I via USEPA or the Reme water well 50 ppm tot a Affected litional sam opm, 60.6 p y 18 x16'x 99ppm. Th The excav TPH USEP n is required	T was sample below the 'Pit Method 418. Method 418. diation of Leagreater than 1 al BTEX. and Cleanup apples were col pm, and 663 pm. A Method 80 l.	d for TPH Rule' spill 1, confirm aks, Spills 000 feet, a Action Tak lected with ppm respec samples w below close ed to appro 15, this is lected.	via USEPA Meil confirmation sting that a release and Releases. The distance to succeed the second of	thod 8015 tandards for the site was aurface was aurface was aurface was made to the site of the site o	5 and 418.1, For benzene, curred at this is ranked a 2d ter greater the ts of 2450 ppf 6" to 12", and and the band were belat 2.89 ppm lep, a composhe Remediat	emoved at the OH for BTEX via USE total BTEX, and coocation. The site of the ocation of the site of the ocation of the site of the ocation ocation.	EPA Method hlorides, but was then rar ted depth to a set the closs ethod 418.1, to 36" retus excavated BTEX at < 0 sure standar ollected from and Release	d 8021, at above had accompany a releasuring relation. The Brown for T m the boses. The	and for total the TPH Sta cording to the lwater of less indard to 100 use has been esults via US GT cellar wa m and TPH TPH at 392 p bottom and re- execuvation	chlori andard e NMC s than : ppm T confirr SEPA N as exca USEP, pm US turned was ba	des. The of 100 ppm OCD 50 feet, PH, 10 ppm ned at this Method 8015 vated to A method EPA results ckfilled, no		
regulations a public health should their or the enviro	Il operators or the envi operations l nment. In a	are required in the required in the requirement. The requirement is a second to the requirement of the requirement in the requi	to report ar e acceptanc adequately OCD accep	nd/or file certain ce of a C-141 rep investigate and	release n port by th remediat	otifications a e NMOCD n e contaminat	and perform correct parked as "Final Ricon that pose a through the operator of	ctive actions deport" does reat to grour responsibili	s for rele s not rele nd water ity for c	eases which ieve the oper r, surface wa ompliance w	may en rator of ter, hu vith any	ndanger f liability man health		
							OIL CON	SERVA'	<u> </u>	DIVISIO	<u>N</u>			
Signature:	kurt Ho	ektra		 		Approved by	Environmental S	Specialist:	ena	AO.	Kel	ky		
						Annuari-1 D	nte: 8/21/2014		virotice	Data		\	_	
Title: EHS C	oordinator			<u> </u>		Approvai Da	me. Mark Pro1.	Exp	oiration	Date:			-	
E-mail Addr	ess: Kurt_F	Ioekstra@xto	energy.con	n		Conditions	of Approval:			Attached				
Date: 7-30-	2014	Phor	ie: 505-333	3-3100									_	
						Cn	L1423349	2356				3	1	



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0380

Samples Received: 4/10/2014 12:06:00PM

Job Number: 98031-0528

Work Order: P404030

Project Name/Location: OH Randel #7

Entire Report Reviewed By:

Date:

4/14/14

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.



382 CR 3100

Project Name:

OH Randel #7

Project Number: Aztec NM, 87410 Project Manager: 98031-0528 James McDaniel

Reported: 14-Apr-14 09:34

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BGT Comp	P404030-01A	Soil	04/09/14	04/10/14	Glass Jar, 4 oz.



382 CR 3100 Aztec NM, 87410 Project Name:

OH Randel #7

Project Number:

98031-0528

Project Manager:

James McDaniel

Reported: 14-Apr-14 09:34

BGT Comp P404030-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	2450	20.0	mg/kg	1	1415036	04/11/14	04/11/14	EPA 418.1	





382 CR 3100

Project Name:

OH Randel #7

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager:

James McDaniel

14-Apr-14 09:34

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1415036 - 418 Freon Extraction		·			_					
Blank (1415036-BLK1)				Prepared &	: Analyzed:	11-Apr-14				
Total Petroleum Hydrocarbons	ND	20.0	mg/kg							
Duplicate (1415036-DUP1)	Sour	rce: P404030-	01	Prepared &	Analyzed:	11-Apr-14				
Total Petroleum Hydrocarbons	3310	20.0	mg/kg		2450			29.9	30	
Matrix Spike (1415036-MS1)	Sour	rce: P404030-	01	Prepared &	Analyzed:	11-Apr-14				
Total Petroleum Hydrocarbons	4800	200	mg/kg	2000	2450	118	80-120			





Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Reported: 14-Apr-14 09:34

Aztec NM, 87410

Project Manager: James McDaniel

Notes and Definitions

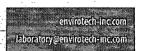
DET Analyte DETECTED

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



	Ouol	e Number		Ť	K 1	· · · · · · · · · · · · · · · · · · ·	T	MEZIUMINI.	Ai	naly	315	-	***************	Lab Information
	хто	Contact .			Page ⊈ of <u>_</u> KTQ Contact Phor	 ne #								
	6090	n Hi		Results	386 -8018									98031-0528
Western Division														Office Abbreviations
			0997	101	t, Janes								ľ	Farmington = FAR
OH Pande 7	30-04	Number 747	49	Rat Closur									: .	Durango = DUR Bakken = BAK
, Collected By	Sam	ples on Ice			Turnaround		1			ý.		ľ		Raton = RAT
Company		Y) N) Requeste			andard ext Day					ķ.				Piceance = PC Roosevelt = RSV
		. Requeste	a		vo Day	1. :								a Barge = LB
Signature			, 1.1. <u></u>		ree Day					·				Orangeville = OV
to I	Gray Areas	for Lab Use	Only!	Date No	l. 5 Bus. Days (by eeded	contract)	00						f :	
Gample ID	ample Name	Media	Date	Time	Preservative	No. of Conts.	8118							Sample Number
FARLH: 040914-1130 BA	CAMP	S	49	1/36	800C	1-402	\geq							P404030-01
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Media : Filter = F Soil = S Wastewater		6111	. 51				<u> </u>			D. 111				0.7
Relinquished: By: (Signature)	ww Groundwat	Date:	ringing v		Received By: (Sig		:r.≃ >v	V AI	r = A	Drill				er = OT ttles Sample Condition
	ar e	47101	14	Time	dereiven mai (si	,		:.* ·			. 4461	vei	J. DC	inc. Jampie condition
ell/kguished By: ():gnaxure)		Date	7,.	Time:	Received By: (51)	(nature)					Ten		ture:	
Relinquished By: (Signature)		Date		Time:	Received for Lab	par (Siano						e:	Tim	et
Comments						1					***********			

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

0380

Page 6 of 6



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 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

Monday April 14, 2014

Report Number: L693177 Samples Received: 04/11/14 Client Project: 30-045-24749

Description: BGT Closure

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

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

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

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

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 14,2014

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

ESC Sample # : L693177-01

Date Received : April 11
Description : BGT Closure April 11, 2014

Site ID : OH RANDEL 7

Sample ID FARLH040914-1130

Project #: 30-045-24749

Collected By : Logan Hixon Collection Date : 04/09/14 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	22.	12.	mg/kg	9056	04/12/14	1
Total Solids	85.3		96	2540 G-2011	04/12/14	1
Benzene	BDL	0.0029	mg/kg	8021/8015	04/12/14	5
Toluene	BDL	0.029	mg/kg	8021/8015	04/12/14	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	04/12/14	5
Total Xylene	0.048	0.0088	mg/kg	8021/8015	04/12/14	5
TPH (GC/FID) Low Fraction	4.7	0.59	mg/kg	GRO	04/12/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	8021/8015	04/12/14	5
a, a, a-Trifluorotoluene (PID)	98.8		% Rec.	8021/8015	04/12/14	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	1900	47.	mg/kg	3546/DRO	04/13/14	10
o-Terphenyl	105.		% Rec.	3546/DRO	04/13/14	10

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L693177

April 14, 2014

			aboratory E						
Analyte	Result		Units	% R∈	ec	Limit	Ba	atch 1	Date Analyzed
Total Solids	< .1		*				Wo	3715632 (04/12/14 09:55
Chloride	< 10		mg/kg				W	3715706 (04/12/14 11:17
TPH (GC/FID) High Fraction	< 4		mg/kg						04/13/14 11:12
o-Terphenyl			% Rec.	96.	. 20	50-150	W	G715730 (04/13/14 11:12
Benzene	< .0005		mg/kg						04/12/14 19:26
Ethylbenzene Toluene	< .0005		mg/kg						04/12/14 19:26
	< .005		mg/kg						04/12/14 19:26
TPH (GC/FID) Low Fraction	< .1		mg/kg						04/12/14 19:26
Total Xylene	< .0015		mg/kg	0.0		F 0 100			04/12/14 19:26
a,a,a-Trifluorotoluene(FID) a,a,a-Trifluorotoluene(PID)			% Rec. % Rec.	98. 103.		59-128 54-144			04/12/14 19:26
a, a, a-iiiiidolocoldene (PID)			* Rec.	103.	. U	54-144	WC	3/133//	<u>)4/12/14</u> 19:26
Analyte	Units	n1	Duplicat		מחח	Limit	-	o. f. g	D-+-h
Miaryce	OUTES	Resul	t Dupli	cale	RPD	PIMIT	<u></u>	Ref Samp	Batch
Total Solids	*	73.4	73.8		0.661	5	I	L693193-0	02 WG715632
Chloride	mq/kq	4300	4300		0.0	20	I	L693036-0)2 WG715706
Chloride	mg/kg	20.0	22.0		9.52	20	I	L693244-0	01 WG715706
			atory Contr	ol Sam	nple				
Analyte	Units	Know	n Val	Re	esult	% Rec	Li	imit	Batch
Total Solids	*	50		49.9)	99.8	85	5-115	WG715632
Chloride	mg/kg	200		207.		104.	80	0-120	WG715706
TPH (GC/FID) High Fraction	mg/kg	60		54.1	_	90.2	50	0-150	WG715730
o-Terphenyl						95.60	50	0-150	WG715730
Benzene	mg/kg	.05		0.04	128	85.6	70	0-130	WG715377
Ethylbenzene	mg/kg	.05		0.04	157	91.3	7(0-130	WG715377
Toluene	mg/kg	.05		0.04	149	89.8	7(0-130	WG715377
Total Xylene	mg/kg	.15		0.14	10	93.0	70	0-130	WG715377
a,a,a-Trifluorotoluene(FID)						98.60		9-128	WG715377
a,a,a-Trifluorotoluene(PID)						103.0		4-144	WG715377
TPH (GC/FID) Low Fraction	mg/kg	5.5		4.46	5	81.0		3.5-137	WG715377
a,a,a-Trifluorotoluene(FID)						98.80		9-128	WG715377
a,a,a-Trifluorotoluene (PID)						111.0	. 54	4-144	WG715377
	L	aboratorv	Control Sa	mple I	Ouplicate				
Analyte		Result	Ref	%Rec		Limit	RPD	Lim	it Batch
Chloride	mg/kg	208.	207.	104.		80-120	0.482	20	WG715706
TPH (GC/FID) High Fraction o-Terphenyl	mg/kg	52.7	54.1	88.0		50-150 50-150	2.75	20	WG715730 WG715730

^{*} Performance of this Analyte is outside of established criteria.

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

Page 3 of 5



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

Aztec, NM 87410

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L693177

April 14, 2014

		Laborator	v Control	. Sample Dupl	licate				
Analyte		Result	Ref	%Rec		mit	RPD	Limit	Batch
Benzene	mg/kg	0.0426	0.0428	85.0	70	-130	0.400	20	WG7153
Ethylbenzene	mg/kg	0.0452	0.0457	90.0	70	-130	0.950	20	WG71537
Toluene	mg/kg	0.0447	0.0449	89.0	70	-130	0.490	20	WG71537
Total Xylene	mg/kg	0.139	0.140	92.0	70	-130	0.730	20	WG71537
a,a,a-Trifluorotoluene(FID)				98.90	59	-128			WG71531
a,a,a-Trifluorotoluene(PID)				103.0	54	-144			WG71537
TPH (GC/FID) Low Fraction	mq/kq	4.63	4.46	84.0	63	.5-137	3.85	20	WG71537
a,a,a-Trifluorotoluene(FID)	J. J			100.0	59	-128			WG71537
a,a,a-Trifluorotoluene(PID)			·	111.0	54	-144			WG71537
			Matrix	Spike					
Analyte	Units	MS Res	Ref F	les TV	% Rec	Limit	<u>t </u>	Ref Samp	Batch
Chloride	mg/kg	801.	280.	500	100.	80-12	20	L693036-03	WG71570
TPH (GC/FID) High Fraction	mg/kg	48.4	3.31	60	75.0	50-15	50	L693256-01	WG71573
o-Terphenyl	J. J				96.70	50-1	50		WG71573
Benzene	mg/kg	0.209	0.000	1494 .05	84.0	49.7	-127	L692513-03	WG71537
Ethylbenzene	mg/kg	0.222	0.000	390 .05	88.0	40.8	-141	L692513-03	WG71537
Toluene	mg/kg	0.222	0.001	.14 .05	88.0	49.8	-132	L692513-03	WG71537
Total Xylene	mg/kg	0.676	0.001	.49 .15 ^r	90.0	41.2	-1.40	L692513-03	WG71537
a,a,a-Trifluorotoluene(FID)					98.10	59-12	28		WG71537
a,a,a-Trifluorotoluene(PID)					102.0	54-14	44		WG71537
TPH (GC/FID) Low Fraction	mg/kg	20.0	0.0	5.5	73.0	28.5	-138	L692513-03	WG71537
a,a,a-Trifluorotoluene(FID)	3. 3				98.80	59-12	28		WG71537
a,a,a-Trifluorotoluene(PID)					109.0	54-1	4.4		WG71537
		Mat	rix Spike	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Chloride	mg/kg	793.	801.	103.	80-120	1.00	20	F693036-03	WG71570
TPH (GC/FID) High Fraction	mg/kg	47.6	48.4	73.8	50-150	1.67	20	L693256-01	WG71573
o-Terphenyl				104.0	50-150				WG71573
Benzene	mg/kg	0.216	0.209	86.2	49.7-127	3.05	23.5	L692513-03	WG7153
Ethylbenzene	mg/kg	0.228	0.222	90.8	40.8-141	2.66	23.8	L692513-03	WG71537
Toluene	mg/kg	0.226	0.222	89.9	49.8-132	1.82	23.5	L692513-03	WG71537
Total Xylene	mg/kg	0.695	0.676	92.5	41.2-140	2.72	23.7	L692513-03	WG71537
a,a,a-Trifluorotoluene(FID)				98.10	59-128				WG7153
a,a,a-Trifluorotoluene(PID)				102.0	54-144				WG7153
TPH (GC/FID) Low Fraction	mg/kg	22.0	20.0	79.9	28.5-138	9.15	23.6	L692513-03	WG71537
a,a,a-Trifluorotoluene(FID)				98.30	59-128				WG71537
a,a,a-Trifluorotoluene(PID)				110.0	54-144				WG71537

Batch number /Run number / Sample number cross reference

WG715632: R2903923: L693177-01 WG715706: R2904248: L693177-01 WG715730: R2904251: L693177-01 WG715377: R2904307: L693177-01

* Performance of this Analyte is outside of established criteria.

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

 $^{^{\}star}$ * Calculations are performed prior to rounding of reported values.



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

Aztec, NM 87410

Quality Assurance Report

L693177

April 14, 2014

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859 Tax I.D. 62-0814289

Est. 1970

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.

IST .		Quote Numb	er	7			_		Ai	alysis		Lab Information
XTO		XTO Contac			Page 1 of 1 KTO Contact Photos							
ENERGY Western Division	1	\mathcal{D}^{-}	Emai	Results								Office Abbreviations Farmington = FAR
Well Site/Location OH Rande. 7 Collected By	3	API Number 8-045-Z Samples on I	•	Test Region Control C			(DRO+GRO)	\ \ \				Durango = DUR Bakken = BAK Raton = RAT
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Comments										(040	66359350

^{*} Sample ID will be the office and sampler-date-military time FARIM-MMDDYY-1200



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0470

Samples Received: 4/15/2014 11:05:00AM

Job Number: 98031-0528 Work Order: P404043

Project Name/Location: OH Randel #7

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

4/17/14

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410

Project Name:

OH Randel #7

Project Number: Project Manager: 98031-0528 James McDaniel

Reported:

17-Apr-14 08:36

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
BGT 6" to 12"	P404043-01A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.	
BGT 18" to 24"	P404043-02A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.	
BGT 30" to 36"	P404043-03A	Soil	04/15/14	04/15/14	Glass Jar, 4 oz.	



382 CR 3100 Aztec NM, 87410 Project Name:

OH Randel #7

Project Number: Project Manager: 98031-0528 James McDaniel Reported:

17-Apr-14 08:36

BGT 6" to 12" P404043-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	334	30.0	mg/kg	1	1416011	04/15/14	04/15/14	EPA 8015D	



382 CR 3100 Aztec NM, 87410 Project Name:

OH Randel #7

Project Number: Project Manager: 98031-0528 James McDaniel Reported:

17-Apr-14 08:36

BGT 18" to 24" P404043-02 (Solid)

Analyte Nonhalogenated Organics by 8015	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	60.6	29.9	mg/kg	l	1416011	04/15/14	04/15/14	EPA 8015D	



382 CR 3100 Aztec NM, 87410 Project Name:

OH Randel #7

Project Number: Project Manager:

98031-0528

James McDaniel

Reported:

17-Apr-14 08:36

BGT 30" to 36" P404043-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	54.1	4.99	mg/kg	1	1416012	04/15/14	04/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	609	29.9	mg/kg	i	1416011	04/15/14	04/15/14	EPA 8015D	



Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager: James McDaniel

17-Apr-14 08:36

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1416011 - DRO Extraction EPA 3550C										
Blank (1416011-BLK1)				Prepared: 1	4-Apr-14	Analyzed:	15-Apr-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1416011-DUP1)	Sou	rce: P404042-	01	Prepared: 1	4-Apr-14	Analyzed:	15-Apr-14			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1416011-MS1)	Sou	rce: P404042-	01	Prepared: 1	4-Apr-14	Analyzed: 1	15-Apr-14			
Diesel Range Organics (C10-C28)	239		mg/L	250	5.82	93.4	75-125			



Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Aztec NM, 87410

Project Manager:

James McDaniel

Reported: 17-Apr-14 08:36

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
					- Trobail	707.20	Ziiiiis		Sinit	110103
Batch 1416012 - Purge and Trap EPA 5030A										
Blank (1416012-BLK1)				Prepared: 1	4-Apr-14	Analyzed: 1	5-Apr-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1416012-DUP1)	Sour	ce: P404042-	01	Prepared: 1	4-Apr-14	Analyzed: 1	5-Apr-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1416012-MS1)	Sour	ce: P404042-	01	Prepared: 1	4-Apr-14	Analyzed: 1	5-Apr-14			
Gasoline Range Organics (C6-C10)	0.62	·	mg/L	0.450	0.001	139	75-125			SPK1

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5796 US Highway 64, Farmington, NM 87401

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

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



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410 Project Number: Project Manager: 98031-0528 James McDaniel Reported: 17-Apr-14 08:36

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DE

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



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0451 Samples Received: 5/6/2014 2:47:00PM

Job Number: 98031-0528

Work Order: P405009

Project Name/Location: OH Randel #7

Entire Report Reviewed By:	Draft	Date:	5/7/14	
	Tim Cain, Laboratory Manager			

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XTO Energy Inc. 382 CR 3100

Aztec NM, 87410

Project Name:

OH Randel #7

Project Number: Project Manager: 98031-0528 James McDaniel Reported:

07-May-14 17:05

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom 12'	P405009-01A	Soil	05/06/14	05/06/14	Glass Jar, 4 oz.
Walls	P405009-02A	Soil	05/06/14	05/06/14	Glass Jar, 4 oz.



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410 Project Number:

98031-0528

Reported:

Project Manager:

James McDaniel

07-May-14 17:05

DRAFT: Bottom 12' P405009-01 (Solid)

		Reporting	** *	6 21 :	.	.			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DRAFT: Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	_
Toluene	0.14	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Ethylbenzene	0.50	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
p,m-Xylene	2.14	0.05	mg/kg	ì	1419008	05/06/14	05/07/14	EPA 8021B	
o-Xylene	0.11	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Total Xylenes	2.25	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Total BTEX	2.89	0.05	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: Bromochlorobenzene		140 %	80-	-120	1419008	05/06/14	05/07/14	EPA 8021B	Surr1
Surrogate: 1,3-Dichlorobenzene		122 %	80-	-120	1419008	05/06/14	05/07/14	EPA 8021B	Surr1
DRAFT: Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	58.3	5.00	mg/kg	1	1419008	05/06/14	05/07/14	EPA 8015D	
Diesel Range Organics (C10-C28)	334	29.9	mg/kg	1	1419007	05/06/14	05/07/14	EPA 8015D	



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410 Project Number: Project Manager: 98031-0528 James McDaniel

Reported: 07-May-14 17:05

DRAFT: Walls P405009-02 (Solid)

	D Iv	Reporting	Marke F	vi e	D . 1	D 1		Maria I	NT .
Analyte	Result	Limit	Units [Dilution	Batch	Prepared	Analyzed	Method	Notes
DRAFT: Volatile Organics by EPA 802	<u></u>								
Benzene	ND	0.05	mg/kg l		1419008	05/06/14	05/07/14	EPA 8021B	
Toluene	ND	0.05	mg/kg 1		1419008	05/06/14	05/07/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg l		1419008	05/06/14	05/07/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg 1		1419008	05/06/14	05/07/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg 1		1419008	05/06/14	05/07/14	EPA 8021B	
Total Xylenes	. ND	0.05	mg/kg l		1419008	05/06/14	05/07/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg 1		1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: Bromochlorobenzene		109 %	80-120		1419008	05/06/14	05/07/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		101 %	80-120		1419008	05/06/14	05/07/14	EPA 8021B	
DRAFT: Nonhalogenated Organics by 8	3015								
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg l		1419008	05/06/14	05/07/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg 1		1419007	05/06/14	05/07/14	EPA 8015D	



Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Aztec NM, 87410 Project Manager:

James McDaniel

Reported: 07-May-14 17:05

0/050

DRAFT: Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	Reporting			Spike Source			%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 1419008 - Purge and Trap EPA 5030A											
Blank (1419008-BLK1)				Prepared: ()6-May-14	Analyzed:	07-May-14				
Benzene	ND	0.05	mg/kg		7,000						
Toluene	ND	0.05	"								
Ethylbenzene	ND	0.05	**								
o,m-Xylene	ND	0.05	U.								
p-Xylene	ND	0.05	"								
Total Xylenes	ND	0.05	11								
Total BTEX	ND	0.05	11								
Surrogate: 1,3-Dichlorohenzene	12.1		ug/I.	50.0		84.8	80-120				
Surrogate: Bromochlorobenzene	45.9		"	50.0		91.8	80-120				
Duplicate (1419008-DUP1)	Sour	ce: P405008-	01	Prepared: 0	6-May-14	Analyzed:	07-May-14				
Benzene	ND	0.05	mg/kg		ND		_		30		
oluene	ND	0.05	н		ND				30		
thylbenzene	ND	0.05	n		ND				30		
,m-Xylene	ND	0.05	"		ND				30		
-Xylene	ND	0.05	,,		ND				30		
urrogate: 1,3-Dichlorobenzene	52.9		ug/L	50.0		106	80-120				
urrogate: Bromochlorobenzene	57.6		"	50.0		115	80-120				
Matrix Spike (1419008-MS1)	Sour	ce: P405008-	01	Prepared: 0	6-May-14	Analyzed:	07-May-14				
Benzene	48.4		ug/L	50.0	ND	96.9	39-150			_	
oluene	49.0		"	50.0	ND	98.0	46-148				
Ethylbenzene	49.8		"	50.0	ND	99.5	32-160				
,m-Xylene	98.6		,,	100	ND	98.6	46-148				
-Xylene	50.1		,,	50.0	ND	100	46-148				
urrogate: 1,3-Dichlorobenzene	51.1		,,	50.0		102	80-120				
Surrogate: Bromochlorobenzene	55.9		"	50.0		112	80-120				

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Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410 Project Manager:

James McDaniel

07-May-14 17:05

DRAFT: Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1419007 - DRO Extraction EPA 3550C										
Blank (1419007-BLK1)				Prepared &	Analyzed:	06-May-14	Ļ			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1419007-DUP1)	Sour	ce: P405008-	01	Prepared &	Analyzed:	06-May-14	<u> </u>			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1419007-MS1)	Sour	ce: P405008-	01	Prepared &	Analyzed:	06-May-14				
Diesel Range Organics (C10-C28)	220		mg/L	250	10.9	83.6	75-125			



382 CR 3100 Aztec NM, 87410 Project Name:

OH Randel #7

Project Number: Project Manager:

Reporting

98031-0528 James McDaniel

Spike

Source

Reported:

07-May-14 17:05

RPD

%REC

DRAFT: Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1419008 - Purge and Trap EPA 503	0A									
Blank (1419008-BLK1)				Prepared: 0	6-May-14	Analyzed:	07-May-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1419008-DUP1)	Source	e: P405008-	01	Prepared: 0	6-May-14	Analyzed:	07-May-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1419008-MS1)	Source	e: P405008-	01	Prepared: 0	6-May-14	Analyzed:	07-May-14			
Gasoline Range Organics (C6-C10)	0.46		mg/L	0.450	ND	101	75-125			



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410 Project Number: Project Manager: 98031-0528

James McDaniel

Reported: 07-May-14 17:05

Notes and Definitions

Surr1 Surrogate recovery was above acceptable 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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Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0473

Samples Received: 5/9/2014 3:55:00PM

Job Number: 98031-0528 Work Order: P405021

Project Name/Location: OH Randel #7

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

Date:

5/12/14

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Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410

Project Number: Project Manager: 98031-0528 James McDaniel Reported:

12-May-14 13:05

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Botom 20'	P405021-01A	Soil	05/09/14	05/09/14	Glass Jar, 4 oz.



382 CR 3100

Project Name:

OH Randel #7

Project Number:

98031-0528

Reported:

Aztec NM, 87410

Project Manager: James McDaniel

12-May-14 13:05

Botom 20' P405021-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1420004	05/12/14	05/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1420005	05/12/14	05/12/14	EPA 8015D	



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410 Project Number:

98031-0528

Project Manager:

James McDaniel

Reported:

12-May-14 13:05

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 1420004 - Purge and Trap EPA 5030A	<u> </u>							_		
Blank (1420004-BLK1)				Prepared &	Analyzed:	12-May-14	ļ			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1420004-DUP1)	Sour	ce: P405021-	01	Prepared &	Analyzed:	12-May-14				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1420004-MS1)	Sour	ce: P405021-	01	Prepared & Analyzed: 12-May-14			ļ			
Gasoline Range Organics (C6-C10)	0.46		mg/L	0.450	0.06	89.4	75-125	_		



Project Name:

OH Randel #7

382 CR 3100

Project Number:

98031-0528

Reported:

Aztec NM, 87410 Project Manager:

James McDaniel

12-May-14 13:05

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1420005 - DRO Extraction EPA 3550C										
Blank (1420005-BLK1)				Prepared &	Analyzed:	12-May-14	1			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg						_	
Duplicate (1420005-DUP1)	Sour	e: P405021-	01	Prepared &	Analyzed:	12-May-14	1			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1420005-MS1)	Sour	e: P405021-	01	Prepared &	: Analyzed:	12-May-14	1			
Diesel Range Organics (C10-C28)	291		mg/L	250	10.2	112	75-125			



Project Name:

OH Randel #7

382 CR 3100 Aztec NM, 87410

Project Number: Project Manager: 98031-0528

James McDaniel

Reported:

12-May-14 13:05

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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Quote			te Number Page of					⊢⊣		Anais	/313 	Lab Information		
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			WRT		1	486-9543			Ì			1	98831-0528	
ENERGY					Results	to:			ŀ	Ì	1 1		Office Abbreviations	
Western Division Jame				s Ku	et Logan						Farmington = FAR			
Well Site/Location ADI Number					'	Test Reason	ا ا	ŀ				Durango = DUR		
OH RANDEL # 7 30-045-2474 Callected By Samples on Ice			47	120	Turnaround	1200	İ		1	ļ	Bakken = BAK Raton = RAT			
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Company QA/QC Request			C Requeste	ď	—× ν	ext Day Kust	۲	Gree,					Roosevelt = RSV	
Signature / / /	-		V			Two Day Three Day Std. 5 Bus. Days (by contract) Date Needed			•				La Barge = LB Orangeville = OV	
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Relinquished By: (Signature) Date:										Time:				
Comments		_	-			-	1		- Land Control	- marin Married (T.)	- A	- January January		
Į.														

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