# 3R-124

# Request for Closure

Date: 6/19/15



June 17, 2015

Mr. Glenn Von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 (505) 476-3488

RE: Rowland Gas COM #1 - Request for Closure OCD Case File No. - 3RP-124

Mr. Von Gonten,

OIL CONS. DIV DIST. 3
JUN 1 9 2015

District Copy For Scanning Only Has NOT been processed.

Please consider this letter as the request for closure for groundwater site 3RP-124. Impacted soil was excavated in April of 2013, and the 2013 Annual Groundwater Report submitted in early 2014 requested closure of this location. At the request of the NMOCD, a boring was conducted in the center of the excavated area, now backfilled, and a temporary monitoring well was installed. A water sample was collected from this temporary well, and analyzed for BTEX and Cations/Anions. Additionally, a sample was collected from historical monitoring well MW-8 for comparative purposes. A *Groundwater Map*, the *Groundwater Analytical Results* Table, the *Boring Log*, and the *Laboratory Analysis* are attached for your reference.

James McDaniel EH&S Supervisor XTO Energy, Inc. (505) 333-3701

Attachments:

Figure 1, Groundwater Map

Table 1, Groundwater Analytical Results

Boring Log

Laboratory Analysis

CC:

Brandon Powell, NMOCD Aztec Division Jim Griswold, NMOCD Santa Fe Office

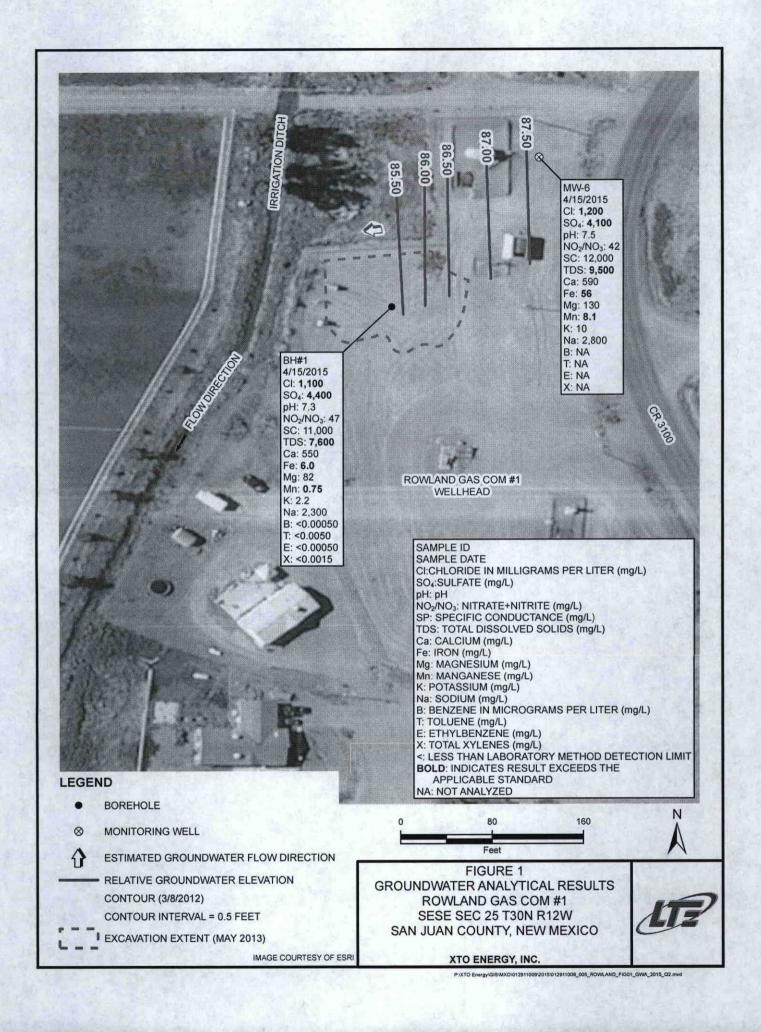


TABLE 1

# GROUNDWATER ANALYTICAL RESULTS ROWLAND GAS COM #1 XTO ENERGY, INC.

Sample ID	MW-6	BH-1	NMWOCC	
XTO Sample ID	FARDN-041515-1150	FARDN-041515-1650	NMWQCC Standards	
Sample Date	4/15/2015	4/15/2015	Sianaaras	
Benzene (mg/L)	NA	< 0.00050	0.01	
Toluene (mg/L)	NA	< 0.0050	0.75	
Ethylbenzene (mg/L)	NA	< 0.00050	0.75	
Total Xylenes (mg/L)	NA	< 0.0015	0.62	
pH	7.5	7.3	6-9	
Nitrate-Nitrite (mg/L)	42	47	NE	
Conductivity (µmhos/cm)	12,000	11,000	NE	
Total Disolved Solids (mg/L)	9,500	7,600	1,000	
Iron (mg/L)	56	6.0	1.0	
Magnesium (mg/L)	130	82	NE	
Manganese (mg/L)	8.1	0.75	0.2	
Calcium (mg/L)	590	550	NE .	
Potassium (mg/L)	10	2.2	NE	
Sodium (mg/L)	2,800	2,300	NE	
Chloride (mg/L)	1,200	1,100	250	
Sulfate (mg/L)	4,100	4,400	600	

# Notes:

Bold - indicates sample exceeds NMWQCC standard

mg/L - milligrams per kilogram

NA - not applicable

NE - Not established

NMWQCC - New Mexico Water Quality Control Commission

μmhos/cm - micromhos per centimeter

< - indicates result is less than the stated laboratory method detection limit



1		20	T Envi 243 Ma Jurange	ronme in Ave o, Colo	ngineeri ntal, Ind enue, Si erado 81	o. uite 3 1301			Boring/Well Number: BH-12 Project: OQCIOO Logged By:	Project Number Coulant Drilled By:	s 115 I Clas cont			
BOR	ING LO	G/MON	ITORIN	NG WEI	LL COM	PLETIO	N DIAG	RAM	Daniel Wewman	Hole Diameter:	Total Depth:			
Lat/Long	8,003916	423230	Elevation:		P(D		Hand +	Auger	Sampling Method: (PUC)	Depth to Water	12:2,			
Casing T		FIG. 1	Casing Di	_	Casing Leng	ith:	Slot Size:	4	Slot Length:		3,42			
Gravel P	Casma					Comments:	JENE							
Penetration Resistance		3	Staining 2	Sample #	Depth (ft. bgs.)	Sample	ole & Lith				Lithology/Remarks			
WED	Dry	0.0	hane	alu	0 1		ML	med	10 yr 512 Green dense, no Plas Non Cottos No souse growel 55%. It to	il .				
MED	moust	1,4	NONE	<b>4</b> [u	3		ML	med 359	ST, I DYR Sla Gred dense, won plastch to couse growed saitt to med sands	enish Gray Boncohesive				
med	MOIST	0,5	Non E	nle	5		CL	coh 60%	resive clay 40% fine 100	our ed sand				
ned	MOIST	2.0	HONE	4 4	7		CL	609	plasticity hesive 6 clay 4096 finel	med sand				
MED	MOIST	1.5.	hone	NIA	9		CL	70%	ocay 30% Finely plagaticity onesive	Brown				
NEO	Moist	2,1	USNE	414	10		CL	MO1 2096	ST 10y Rd3 Doub Plasticity / cones clay 30% Fine Imed	Brown sive	Page of			

1	Í	2	.T Envi 243 Ma	ronme in Ave	ngineeri ntal, ind enue, St orado 8	o. uite 3 1301			Boring/Well Number Project: Rawland (10 Logged By:	w(om#1	Project Number ORQ 110  Drilled By:		
Lat/Long:	36,77	92323	SElevation: 56 5 Casing Di	ን	Detector: P(D) Casing Leng		N DIAG Drilling Me Have F Slot Size: 0.01	thod:	Daniel Ne Sampling Method: Bayler Slot Length:	wingh.	Hole Diameter:  Q'  Depth to Water:  13,42	Total Depth:	
Gravel Pa	ok:		Seal:	F	(G' Grout: NON (		Comments:	E					
Penetration Resistance Z	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample	쓩			//Remarks		Well Completion	
-					11 1		CL	Die 10-13	Descrip	tion on		1117	
med	foom	0.0	None	414	13		SC	10 y	R 513 y	rellowish B conge 2018	rown Finelmed sold		DIL 13H
med	MOIST	0.0	MONE	Alu	14		SC	1041	e 5/3 coarse san	<u>1</u> 308day 8	2096 sitt		
weg	WET	0.0	NONE	NA	-16		SC	wet 50ca	saturated so	104K21	s Spirosit	1	18
					17								
					18								
					19								
					20								
					21								
					22		11/0	Per Sale				Page of	

BORELOG\_CUSTOMLXIS



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James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

# Report Summary

Monday April 27, 2015

Report Number: L760026 Samples Received: 04/17/15 Client Project:

Description: Rowland GC 1

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:

# Laboratory Certification Numbers

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

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

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REPORT OF ANALYSIS

April 27, 2015

James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

Date Received : April 17, 2015 Description : Rowland GC 1

Sample ID : FARDN-041515-1150

Collected By : Daniel Newman Collection Date : 04/15/15 11:50

ESC Sample # : L760026-01

Site ID : Project # :

arameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride Sulfate	1200 4100	100 500	mg/l mg/l	9056MOD 9056MOD	04/22/15 04/22/15	100 100
pH	7.5		su	9040C	04/20/15	1
Nitrate-Nitrite	42.	10.	mg/l	353.2	04/27/15	100
Specific Conductance	12000		umhos/cm	9050A	04/21/15	1
Dissolved Solids	9500	10.	mg/l	2540 C-2011	04/24/15	1
Calcium Iron Magnesium Manganese Potassium Sodium	590 56. 130 8.1 10. 2800	10. 0.10 1.0 0.010 1.0	mg/l mg/l mg/l mg/l mg/l	6010B 6010B 6010B 6010B 6010B 6010B	04/24/15 04/23/15 04/23/15 04/23/15 04/23/15 04/24/15	10 1 1 1 1 1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/15 16:27 Printed: 04/27/15 16:28 L760026-01 (PH) - 7.5 at 19.1 c



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REPORT OF ANALYSIS

April 27, 2015

James McDaniel XTO Energy - San Juan Division 382 County Road 3100 Aztec, NM 87410

Date Received : April 17, 2015 Description : Rowland GC 1

: FARDN-041515-1650 Sample ID

Collected By : Daniel Newman Collection Date : 04/15/15 16:50

ESC Sample # : L760026-02

Site ID : Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	1100	100	mg/l	9056MOD	04/23/15	100
рн	7.3		su	9040C	04/20/15	1
Nitrate-Nitrite	47.	10.	mg/l	353.2	04/27/15	100
Specific Conductance	11000		umhos/cm	9050A	04/21/15	1
Dissolved Solids	7600	10.	mg/l	2540 C-2011	04/24/15	1
Calcium Iron Magnesium Manganese Potassium Sodium	550 6.0 82. 0.75 2.2 2300	10. 0.10 1.0 0.010 1.0 10.	mg/l mg/l mg/l mg/l mg/l	6010B 6010B 6010B 6010B 6010B 6010B	04/24/15 04/23/15 04/23/15 04/23/15 04/23/15 04/24/15	10 1 1 1 1 10
Benzene Toluene Ethylbenzene Total Xylene urrogate Recovery(%)	BDL BDL BDL BDL	0.00050 0.0050 0.00050 0.0015	mg/1 mg/1 mg/1 mg/1	8021B 8021B 8021B 8021B	04/22/15 04/22/15 04/22/15 04/22/15	1 1 1 1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021B	04/22/15	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL) Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 04/27/15 16:27 Printed: 04/27/15 16:28 L760026-02 (PH) - 7.3 at 19.1 c

# Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run	Qualifier
L760026-01	WG782951	SAMP	pH	R3031818	T8
L760026-02	WG782951	SAMP	pH	R3031818	T8

#### Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

#### Qualifier Report Information

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

#### Definitions

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



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L760026

April 27, 2015

			tory Blank					
Analyte	Result	Units	% R	ec	Limit	Batch	Date Analy	yzed
Specific Conductance	1.01	umhos	s/cm			WG783520	04/21/15	12:0
Chloride	< 1	mg/1					04/22/15	
Sulfate	< 5	mg/1				WG783895	04/22/15	19:2
Calcium	< 1	mg/l					04/23/15	
Iron Tron	< .1	mg/1					04/23/15	
Magnesium	< 1	mg/l					04/23/15	
Manganese	< .01	mg/l					04/23/15	
Potassium	< 1	mg/l					04/23/15	
Sodium	< 1	mg/l				WG783145	04/23/15	19:3
Dissolved Solids	< 10	mg/1				WG783688	04/24/15	08:3
Benzene	< .0005	mg/1					04/22/15	BOOK WILLIAM TO
Ethylbenzene	< .0005	mg/1					04/22/15	
Toluene	< .005	mg/l					04/22/15	
Total Xylene	< .0015	mg/l					04/22/15	
a,a,a-Trifluorotoluene(PID)		% Rec	2. 101	.0	55-122	WG783799	04/22/15	08:5
Nitrate-Nitrite	< .1	mg/l				WG784278	04/27/15	02:4
No. 1. Washington	Units	Result	plicate Duplicate	RPD	Limit	Ref Sam	p Bati	ch
Analyte	OHIES	Result	Dupilcate	KED	DIMIT C	Net Sam	р вас	
pH	su	4.40	4.40	0.454	1	L759581		8295
рН	su	7.00	7.00	0.573	1	L760090	-02 WG71	8295
Specific Conductance	umhos/cm	5200	5200	0.192	20	L760265	-05 WG71	8352
Chloride	mg/l	7.80	7.70	2.00	20	L759346	-01 WG7	8389
Sulfate	mg/l	10.0	9.51	5.00	20	L759346	-01 WG71	8389
Chloride	mg/l	17.0	16.8	0.0	20	L759492	-01 WG7	8389
Sulfate	mg/l	11.0	10.9	1.00	20	L759492	-01 WG7	8389
Dissolved Solids	mg/l	5800	5660	2.44	5	L760247	-10 WG78	8368
Nitrate-Nitrite	mg/1	4.10	4.10	0.0	20	L759991	-07 WG78	8427
Nitrate-Nitrite	mg/1	0.0880	0.0870	1.14	20	L760044	-05 WG7	8427
Analyte	Units	Laboratory Known Val	y Control San	mple esult	% Rec	Limit	Bato	ch
pH	su	7.84	7.9	3	101.	98.3-101	.7 WG7	8295
Specific Conductance	umhos/cm		557		104.	85-115		8352
							No. of the last of	
Chloride	mg/l	40	40.	7	102.	90-110	WG7	8389

\* Performance of this Analyte is outside of established criteria.

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



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	10.0			rol Sample				
Analyte	Units	Know	n Val	Result	% Rec	Li	nit	Batch
Sulfate	mg/l	40		40.9	102.	90-	-110	WG78389
Calcium	mg/l	10		9.85	99.0	80	-120	WG78314
Iron Tron	mg/l	1		1.01	101.	80-	-120	WG78314
Magnesium	mg/l	10		10.3	103.		-120	WG78314
Manganese	mg/l	1		1.02	102.		-120	WG78314
Potassium	mg/l	10		10.1	101.		-120	WG78314
Sodium	mg/l	10		10.8	108.	80-	-120	WG78314
Dissolved Solids	mg/l	8800		7510	85.3	85	-115	WG78368
Benzene	mg/l	.05		0.0471	94.2	70	-130	WG78379
Ethylbenzene	mq/1	.05		0.0479	95.9	70	-130	WG78379
Toluene	mg/l	.05		0.0473	94.6	70-	-130	WG78379
Total Xylene	mg/l	.15		0.146	97.0	70-	-130	WG78379
a,a,a-Trifluorotoluene(PID)					100.0	55	-122	WG78379
Nitrate-Nitrite	mg/l	5	43.06	5.04	101.	90	-110	WG78427
		Laboratory	Control S	ample Duplicate	e			
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
pH College Telephone	su	7.94	7.93	101.	98.3-101.7	0.126	20	WG78295
Specific Conductance	umhos/	552.	557.	103.	85-115	0.902	20	WG78352
Chloride	mg/l	40.3	40.7	101.	90-110	1.00	20	WG78389
Sulfate	mg/l	40.5	40.9	101.	90-110	1.00	20	WG78389
Calcium	mg/l	9.78	9.85	98.0	80-120	1.00	20	WG78314
Iron	mg/l	1.01	1.01	101.	80-120	0.0	20	WG78314
Magnesium	mg/1	10.3	10.3	103.	80-120	0.0	20	WG78314
Manganese	mg/l	1.01	1.02	101.	80-120	0.0	20	WG78314
Potassium	mg/l	9.99	10.1	100.	80-120	1.00	20	WG78314
Sodium	mg/1	10.6	10.8	106.	80-120	2.00	20	WG78314
Dissolved Solids	mg/l	7830	7510	89.0	85-115	4.17	5	WG78368
Benzene	mq/l	0.0470	0.0471	94.0	70-130	0.240	20	WG78379
Ethylbenzene	mg/1	0.0472	0.0479	94.0	70-130	1.61	20	WG78379
Toluene	mg/1	0.0466	0.0473	93.0	70-130	1.40	20	WG78379
Total Xylene	mg/l	0.143	0.146	96.0	70-130	1.44	20	WG78379
a,a,a-Trifluorotoluene(PID)				99.60	55-122			WG78379
Nitrate-Nitrite	mg/l	4.81	5.04	96.0	90-110	4.67	20	WG78427

<sup>\*</sup> Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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April 27, 2015

			Matrix S	pike						
Analyte	Units	MS Res	Ref Re	s TV	% Rec	Limit		Ref Samp	Batch	
Chloride	mg/1	5830	1140	.5	94.0	80-120		L760026-02	WG783895	
Sulfate	mg/l	8610	4040	.5	91.0	80-120		L760026-02	WG78389	
Iron	mg/1	1.33	0.291	1	100.	75-12		L760435-07	WG78314	
Magnesium	mg/l	11.3	0.724	10	100.	75-125		L760435-07	WG78314	
Manganese	mg/l	1.04	0.0155		100.	75-12		L760435-07	WG78314	
Potassium	mg/l	10.9	0.677	10	100.	75-12		L760435-07	WG78314	
Sodium	mg/1	227.	216.	10	110.	75-12	25	L760435-07	WG78314	
Calcium	mg/1	11.5	2.06	10	95.0	75-12	25	L760435-07	WG78314	
Benzene	mg/1	0.101	0.0506	.05	100.	57.2-	-131	L759835-13	WG78379	
Ethylbenzene	mg/1	0.0494	0.0	.05	99.0	67.5-	-135	L759835-13	WG78379	
Toluene	mg/1	0.0489	0.0001	50 .05	98.0	63.7-	-134	L759835-13	WG78379	
Total Xylene	mg/l	0.151	0.0	.15	100.	65.9-	.9-138 L759835-13		WG78379	
a,a,a-Trifluorotoluene(PID)					98.40	55-122			WG78379	
Nitrate-Nitrite	mg/l	21.3	16.0	5	100.	90-11	LO	L759991-05	WG78427	
		Mat	rix Spike	Duplicate						
Analyte	Units	MSD	Ref	*Rec	Limit	RPD	Limit	Ref Samp	Batch	
Chloride	mg/1	6120	5830	9960*	80-120	5.00	20	L760026-02	WG78389	
Sulfate	mg/l	8850	8610	9610*	80-120	3.00	20	L760026-02	WG78389	
Iron	mg/l	1.29	1.33	99.8	75-125	3.00	20	L760435-07	WG78314	
Magnesium	mg/1	10.8	11.3	101.	75-125	4.00	20	L760435-07	WG78314	
Manganese	mg/l	1.02	1.04	100.	75-125	2.00	20	L760435-07	WG78314	
Potassium	mg/1	10.6	10.9	99.2	75-125	3.00	20	L760435-07	WG78314	
Sodium	mg/l	221.	227.	46.7*	75-125	3.00	20	L760435-07	WG78314	
Calcium	mg/l	11.6	11.5	95.7	75-125	1.00	20	L760435-07	WG78314	
Benzene	mg/l	0.0954	0.101	89.7	57.2-131	5.37	20	L759835-13	WG78379	
Ethylbenzene	mg/1	0.0472	0.0494	94.3	67.5-135	4.67	20	L759835-13	WG78379	
Toluene	mg/l	0.0467	0.0489	93.1	63.7-134	4.56	20	L759835-13	WG78379	
Total Xylene	mg/1	0.144	0.151	95.8	65.9-138	4.65	20	L759835-13	WG78379	
a,a,a-Trifluorotoluene(PID)				98.40	55-122				WG78379	
Nitrate-Nitrite	mg/l	20.4	21.3	87.0*	90-110	4.33	20	L759991-05	WG78427	

Serial Dilution

Batch number /Run number / Sample number cross reference

WG782951: R3031818: L760026-01
WG783520: R3031990: L760026-01
\* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division James McDaniel 382 County Road 3100

Aztec, NM 87410

WG783895: R3032607: L760026-01 WG783145: R3032667 R3033043: L760026-01 02 WG783688: R3032729: L760026-01 WG783799: R3033075: L760026-WG784278: R3033301: L760026-01

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Level II

L760026

<sup>\* \*</sup> Calculations are performed prior to rounding of reported values.
\* Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



XTO Energy - San Juan Division James McDaniel 382 County Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L760026

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.

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Tax I.D. 62-0814289

Est. 1970

April 27, 2015

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<sup>\*</sup> Sample ID will be the office and sampler-date-military time FARIM-MMDDYY-1200