

RCVD JAN 31 '12

OIL CONS. DIV.

DIST. 3



**Federal 18 #1T Remediation System
2011 3rd Quarter Report**

**Submitted By:
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**Submitted to:
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January 2012

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Introduction

The purpose of this report is to summarize the current on-site activities involving venting gas and producing water from a former coal bed methane gas well at the Federal 18 #1T. The casing of this well has been modified to vent gas and purge water from the Ojo Alamo Formation. The setup and initial installation of this system is detailed in a report submitted to Brandon Powell, New Mexico Oil Conservation Division (OCD), in November, 2010. This quarterly report details operations from July 1, 2011, through September 30, 2011.

History

The vacuum system at the Federal 18 #1T is being operated as part of an on going effort between the OCD and XTO Energy, Inc. (XTO) to vent gas from the Nacimiento formation just above the Ojo Alamo Formation. Gas was recently found in the Nacimiento formation which could have come from several contributing sources. The Federal 1 #18 (30-045-09466), located in Section 10 of Township 30N, Range 13W and approximately 2,600' to the south-west of water well SJ-01737, was plugged in 1988 by Southern Union Oil Company. This well only had an initial surface casing of 200' when it was drilled in 1959. Section 18 also has one (1) additional well plugged by XTO Energy, Inc. in 2010. Section 19 of Township 30N, Range 12W has two (2) historically plugged wells. Approximately 4,400' to the south of water well SJ-01737, the Dansby #2 (30-045-09402) was plugged by Don Trader, Inc. in 1954 with a total depth of 1980' and a surface casing of only 100', and the second was well plugged by Amoco Production in 1988. There are also three (3) additional wells plugged by Texacoma in 1997 in Section 19. There are additionally numerous oil and gas wells being operated by local exploration and production companies in the area. In Section 18, there are three (3) wells being operated by XTO Energy, Inc., and two (2) wells being operated by ConocoPhillips as Burlington Resources. In Section 19, there are nine (9) wells being operated by XTO Energy, Inc. In Section 7, there are seven (7) wells being operated by XTO Energy, Inc, and four (4) wells being operated by Robert L Bayless Producers, LLC. Furthermore, there is naturally occurring gas in the formation according to statements from local water well drillers, and a casing leak was discovered at the New Mexico Federal N #3E well site, (located in Unit D, Section 18, Township 30N, Range 12W, San Juan County, New Mexico). This leak was identified as a result of discovery of gas in a local water well (SJ 1737) in April, 2010. Bradenhead pressures were observed at several XTO wells in the area. The New Mexico Federal N #3E, the New Mexico Federal N #3F and the New Mexico Federal N #3 all had bradenhead pressure tests performed. The bradenhead pressure from the New Mexico Federal N #3E was 17 psi, indicating a leak in the casing. The casing leak was repaired, and the New Mexico Federal N #3E was put back into operation. In agreement with the OCD, a nearby gas well scheduled to be plugged, Federal 18 #1T, was modified to act as a venting well by setting a plug at approximately 513 feet. Perforations were made in the casing at 437 feet and 457 feet in order to assess the groundwater and vent gas from the Nacimiento.

On September 24, 2010, a swab rig was used to determine if the well would produce water using the perforations. The swab rig recovered approximately 2 barrels of water, indicating that the perforations would produce water. A sample collected during the swab returned results above Water Quality Control Commission (WQCC) standards for benzene, total xylenes, and total chlorides; see attached *Federal 18 #1T Water Results Table*. Due to the low pH and high chlorides, it was inferred that the acid used to dissolve cement during perforation activities may

have infiltrated the aquifer, causing the increased levels shown in the sampling results. XTO recommended pumping the aquifer until sampling results were below the WQCC standards for BTEX and chlorides.

A pump was installed in the Federal 18 #1T on November 9, 2010 at approximately 485 feet. During the pump installation, the water level was checked using a Keck ET Long water level indicator. The static water level was found to be approximately 402.20 feet. The pump was initially set to operate four (4) times a day for 15 minutes, purging approximately 260 gallons per day. During swab and pump installation activities, no gas was found flowing from the well.

On November 11, 2010, a small vacuum pump was installed at the Federal 18 #1T to determine if gas could be vented. The discharge from the vacuum was checked using a MSA 4-Gas Monitor, which confirmed that methane was being vented from the vacuum pump discharge. The vacuum pump operates at a discharge rate of three (3) standard cubic feet per minute (scfm), which is equivalent to approximately six (6) actual cubic feet per minute (acfm) based on elevation. This volume was calculated using the conversion factors provided by the vacuum pump manufacturer, Becker. The vacuum pump holds a vacuum of approximately -12 inches of mercury on the casing of the Federal 18 #1T during operation. Both the vacuum pump and the water pump were powered by a portable generator placed on-site.

The water pump was plumbed into the existing water lines on site, so that all water would pump into the 210 barrel water tank left on-site from production activities. Water piping above ground was wrapped with heat trace and insulation to prevent freezing.

The system was electrified on February 3, 2011 to prevent down time due to generator maintenance issues.

3rd Quarter Activities

During the third quarter of 2011, the system ran continuously with minimal down time. As of September 30, 2011, approximately 2,516.8 thousand cubic feet (MCF) of gas has been vented from the Federal 18 #1T casing, with the system venting approximately 60.4 MCF per week during operation. On August 17, 2011, a gas sample was collected from the vacuum pump discharge, and analyzed in house for percentage methane. The sample returned results of 80.5% methane.

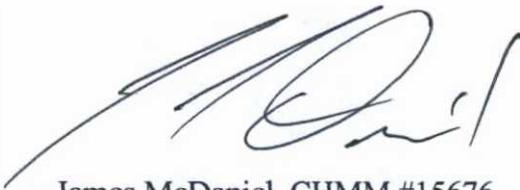
A total of 180,392.5 gallons of water have been removed from the Federal 18 #1T as of September 30, 2011. The water pump operated for 15 minutes every 90 minutes during the third quarter, purging nearly 900 gallons of water per day. The attached *Federal 18 #1T Water Results Table* shows that benzene decreased steadily from 52 ppb at the end of the second quarter to 7.2 ppb by September of 2011. Chloride levels have showed an overall decrease from levels of 61 ppm in late June, to levels of 35 ppm in late September. These values are consistent with the increasing pH numbers throughout the third quarter. As residual acid is removed from the formation, the pH rises closer to the natural background (pH = 7.2 in well SJ 1737), and benzene and chloride levels decrease. All BTEX constituents, as well as chlorides, are below WQCC standards. TDS continues to be above WQCC standards, but background levels (1400 ppm) in water well SJ 1737 are above WQCC standards as well.

Pressure at well SJ 1737 was checked periodically over the course of the third quarter. The pressure was checked by shutting in the casing for a minimum of 24 hours prior to reading the pressure gauge. The pressure readings and average barometric pressures are outlined in the attached *Well SJ 1731 Casing Pressures Table*. The pressure did not show a correlation to the barometric pressure, but did show a slight downward trend during the third quarter, as levels dropped from 6 oz early in the quarter to levels of 4.5 oz late in the quarter. Since January of 2011, the casing pressure in the water well SJ 1737 has shown an overall decrease from 9 oz to 4.5 oz in September if 2011.

On August 17, 2011, a gas sample was collected from the vacuum pump discharge, and analyzed in house for percentage methane. The sample returned results of 80.5% methane.

Recommendations

XTO recommends the continued operation of the remediation system at the Federal 18 #1T. Continued venting and monthly groundwater sampling will allow XTO to continue to monitor trends in the groundwater at the Federal 18 #1T. XTO will continue monitoring the pressure at water well SJ 1737 as well, to further evaluate this location.



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

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901

(307) 352-7292

LIMS ID:	N/A	Description:	Federal 18 #1T Casing
Analysis Date/Time:	1/20/2011 12:01 PM	Field:	San Juan, NM
Analyst Initials:	AST	ML#:	XTO
Instrument ID:	Instrument 1	GC Method:	Quesbtex
Data File:	QPC13.D		
Date Sampled:	1/18/2011		

Component	Mol%	Wt%	LV%
Methane	76.8704	62.7056	78.3534
Ethane	3.5457	5.4212	5.7178
Propane	0.9279	2.0806	1.5385
Isobutane	0.3044	0.8995	0.5991
n-Butane	0.3055	0.9028	0.5795
Neopentane	0.0481	0.1763	0.1108
Isopentane	0.1021	0.3745	0.2248
n-Pentane	0.1017	0.3730	0.2216
2,2-Dimethylbutane	0.0485	0.2126	0.1219
2,3-Dimethylbutane	0.0478	0.2093	0.1178
2-Methylpentane	0.0491	0.2151	0.1226
3-Methylpentane	0.0477	0.2092	0.1172
n-Hexane	0.0493	0.2162	0.1221
Heptanes	0.0734	0.3566	0.1815
Octanes	0.0047	0.0276	0.0145
Nonanes	0.0041	0.0243	0.0115
Decanes plus	0.0012	0.0085	0.0044
Nitrogen	16.6009	23.6460	10.9514
Carbon Dioxide	0.8675	1.9411	0.8896
Oxygen	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

Global Properties

Units

Gross BTU/Real CF	912.3	BTU/SCF at 60°F and 14.73 psia
Sat. Gross BTU/Real CF	897.5	BTU/SCF at 60°F and 14.73 psia
Gas Compressibility (Z)	0.9980	
Specific Gravity	0.6807	air=1
Avg Molecular Weight	19.667	gm/mole
Propane GPM	0.254303	gal/MCF
Butane GPM	0.195423	gal/MCF
Gasoline GPM	0.221555	gal/MCF
26# Gasoline GPM	0.318121	gal/MCF
Total GPM	0.671781	gal/MCF
Base Mol%	88.907	%v/v

Sample Temperature:	N/A	°F
Sample Pressure:	N/A	psig
H2S Length of Stain Tube	N/A	ppm

Component	Mol%	Wt%	LV%
Benzene	0.0092	0.0365	0.0155
Toluene	0.0069	0.0323	0.0139
Ethylbenzene	0.0004	0.0024	0.0010
M&P Xylene	0.0015	0.0081	0.0035
O-Xylene	0.0004	0.0021	0.0009
2,2,4-Trimethylpentane	0.0044	0.0256	0.0133
Cyclopentane	0.0000	0.0000	0.0000
Cyclohexane	0.0061	0.0259	0.0124
Methylcyclohexane	0.0068	0.0337	0.0163
Description:	Federal 1E & 1 T.Casing		

GRI GlyCalc Information

Component	Mol%	Wt%	LV%
Carbon Dioxide	0.8675	1.9411	0.8896
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	16.6009	23.6460	10.9514
Methane	76.8704	62.7056	78.3534
Ethane	3.5457	5.4212	5.7178
Propane	0.9279	2.0806	1.5385
Isobutane	0.3044	0.8995	0.5991
n-Butane	0.3055	0.9028	0.5795
Isopentane	0.1502	0.5508	0.3356
n-Pentane	0.1017	0.3730	0.2216
Cyclopentane	0.0000	0.0000	0.0000
n-Hexane	0.0493	0.2162	0.1221
Cyclohexane	0.0061	0.0259	0.0124
Other Hexanes	0.1931	0.8462	0.4795
Heptanes	0.0400	0.2026	0.1101
Methylcyclohexane	0.0068	0.0337	0.0163
2,2,4 Trimethylpentane	0.0044	0.0256	0.0133
Benzene	0.0092	0.0365	0.0155
Toluene	0.0069	0.0323	0.0139
Ethylbenzene	0.0004	0.0024	0.0010
Xylenes	0.0019	0.0102	0.0044
C8+ Heavies	0.0077	0.0478	0.0250
Subtotal	100.0000	100.0000	100.0000
Oxygen	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901

(307) 352-7292

LIMS ID:	N/A	Description:	Federal 18 # 1T - McGuire Well
Analysis Date/Time:	1/21/2011 7:59 AM	Field:	San Juan
Analyst Initials:	BRS	ML#:	XTO/Vac Discharge
Instrument ID:	Instrument 1	GC Method:	Quesbtex
Data File:	QPC21.D		
Date Sampled:	1/18/2011		

Component	Mol%	Wt%	LV%
Methane	62.7531	46.6842	65.4826
Ethane	5.6688	7.9046	9.3586
Propane	1.8958	3.8765	3.2178
Isobutane	0.2929	0.7895	0.5903
n-Butane	0.2687	0.7242	0.5218
Neopentane	0.0030	0.0102	0.0072
Isopentane	0.0661	0.2210	0.1489
n-Pentane	0.0211	0.0707	0.0471
2,2-Dimethylbutane	0.0013	0.0053	0.0034
2,3-Dimethylbutane	0.0014	0.0057	0.0036
2-Methylpentane	0.0045	0.0178	0.0114
3-Methylpentane	0.0021	0.0083	0.0052
n-Hexane	0.0020	0.0080	0.0051
Heptanes	0.0014	0.0058	0.0033
Octanes	0.0000	0.0000	0.0000
Nonanes	0.0002	0.0016	0.0008
Decanes plus	0.0004	0.0029	0.0017
Nitrogen	26.3617	34.2444	17.8034
Carbon Dioxide	2.6555	5.4193	2.7878
Oxygen	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

Global Properties	Units	
Gross BTU/Real CF	807.8	BTU/SCF at 60°F and 14.73 psia
Sat. Gross BTU/Real CF	794.8	BTU/SCF at 60°F and 14.73 psia
Gas Compressibility (Z)	0.9981	
Specific Gravity	0.7463	air=1
Avg Molecular Weight	21.565	gm/mole
Propane GPM	0.519568	gal/MCF
Butane GPM	0.180098	gal/MCF
Gasoline GPM	0.038060	gal/MCF
26# Gasoline GPM	0.122610	gal/MCF
Total GPM	0.737782	gal/MCF
Base Mol%	98.588	%v/v

Sample Temperature:	N/A	°F
Sample Pressure:	9 oz	psig
H2S Length of Stain Tube	N/A	ppm

Component	Mol%	Wt%	LV%
Benzene	0.0000	0.0000	0.0000
Toluene	0.0001	0.0004	0.0002
Ethylbenzene	0.0000	0.0000	0.0000
M&P Xylene	0.0001	0.0007	0.0003
O-Xylene	0.0000	0.0002	0.0001
2,2,4-Trimethylpentane	0.0000	0.0000	0.0000
Cyclopentane	0.0000	0.0000	0.0000
Cyclohexane	0.0001	0.0004	0.0002
Methylcyclohexane	0.0000	0.0000	0.0000
Description:	Federal 18 # 1T		

GRI GlyCalc Information

Component	Mol%	Wt%	LV%
Carbon Dioxide	2.6555	5.4193	2.7878
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	26.3617	34.2444	17.8034
Methane	62.7531	46.6842	65.4826
Ethane	5.6688	7.9046	9.3586
Propane	1.8958	3.8765	3.2178
Isobutane	0.2929	0.7895	0.5903
n-Butane	0.2687	0.7242	0.5218
Isopentane	0.0691	0.2312	0.1561
n-Pentane	0.0211	0.0707	0.0471
Cyclopentane	0.0000	0.0000	0.0000
n-Hexane	0.0020	0.0080	0.0051
Cyclohexane	0.0001	0.0004	0.0002
Other Hexanes	0.0093	0.0371	0.0236
Heptanes	0.0012	0.0050	0.0029
Methylcyclohexane	0.0000	0.0000	0.0000
2,2,4 Trimethylpentane	0.0000	0.0000	0.0000
Benzene	0.0000	0.0000	0.0000
Toluene	0.0001	0.0004	0.0002
Ethylbenzene	0.0000	0.0000	0.0000
Xylenes	0.0001	0.0009	0.0004
C8+ Heavies	0.0005	0.0036	0.0021
Subtotal	100.0000	100.0000	100.0000
Oxygen	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

In House Gas Analysis

Meter name	sample_date	spec_grav	gpm	btu	n2	co2	c1	c2	c3	ic4	nc4	ic5	nc5	c6p
FEDERAL 18 1T	08/17/11	0.71	4.27	1170.00	3.10	1.54	80.50	8.65	3.40	0.54	0.89	0.31	0.27	0.80

*collected from the vacuum discharge at the Federal 18 #1T



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	First Swab Water Sample	Date Reported:	09-28-10
Chain of Custody:	10400	Date Sampled:	09-24-10
Laboratory Number:	55955	Date Received:	09-24-10
Sample Matrix:	Aqueous	Date Analyzed:	09-27-10
Preservative:	HCl	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	143	1	0.2
Toluene	221	1	0.2
Ethylbenzene	63.6	1	0.2
p,m-Xylene	674	1	0.2
o-Xylene	276	1	0.1

Total BTEX align="right">**1,380**

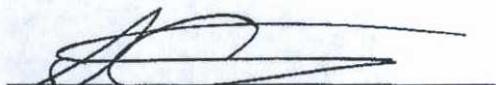
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	94.5 %
	1,4-difluorobenzene	86.0 %
	4-bromochlorobenzene	109 %

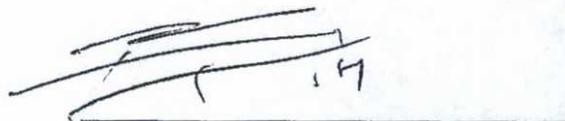
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **Federal 18 #1T**



Analyst



Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	XTO	Project #:	98031-0528
Sample ID:	Second Swab Run Water	Date Reported:	09-28-10
Chain of Custody:	10400	Date Sampled:	09-24-10
Laboratory Number:	55956	Date Received:	09-24-10
Sample Matrix:	Aqueous	Date Analyzed:	09-27-10
Preservative:	HCl	Analysis Requested:	BTEX
Condition:	Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	320	1	0.2
Toluene	377	1	0.2
Ethylbenzene	31.8	1	0.2
p,m-Xylene	330	1	0.2
o-Xylene	238	1	0.1

Total BTEX **1,300**

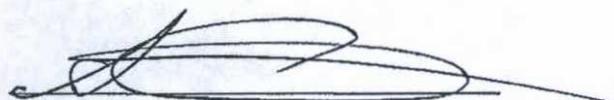
ND - Parameter not detected at the stated detection limit.

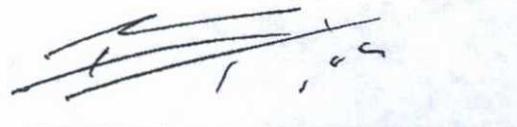
Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	87.9 %
	1,4-difluorobenzene	113 %
	4-bromochlorobenzene	116 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **Federal 18 #1T**


Analyst


Review



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT**

Client:	N/A	Project #:	N/A
Sample ID:	0927BBLK QA/QC	Date Reported:	09-28-10
Laboratory Number:	55956	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-27-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range	%Diff. 0 - 15%	Blank Conc	Detect. Limit
Benzene	7.3537E+006	7.3759E+006	0.3%	ND	0.2
Toluene	3.9467E+006	3.9586E+006	0.3%	ND	0.2
Ethylbenzene	2.9794E+006	2.9883E+006	0.3%	ND	0.2
p,m-Xylene	6.5911E+006	6.6109E+006	0.3%	ND	0.2
o-Xylene	2.2012E+006	2.2078E+006	0.3%	ND	0.1

Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff.	Accept Limit
Benzene	320	312	2.6%	0 - 30%
Toluene	377	365	3.2%	0 - 30%
Ethylbenzene	31.8	29.8	6.4%	0 - 30%
p,m-Xylene	330	308	6.7%	0 - 30%
o-Xylene	238	231	2.9%	0 - 30%

Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	320	50.0	351	94.9%	39 - 150
Toluene	377	50.0	418	98.0%	46 - 148
Ethylbenzene	31.8	50.0	86.9	106%	32 - 160
p,m-Xylene	330	100	452	105%	46 - 148
o-Xylene	238	50.0	296	103%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 55955-55956



Analyst



Review

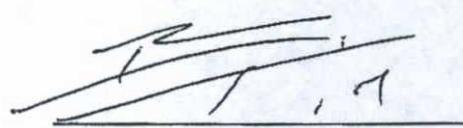
Client:	XTO	Project #:	98031-0528
Sample ID:	Second Swab Run Water	Date Reported:	09-27-10
Laboratory Number:	55956	Date Sampled:	09-24-10
Chain of Custody:	10400	Date Received:	09-24-10
Sample Matrix:	Aqueous	Date Analyzed:	09-24-10
Preservative:	HCl		
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	5.84	s.u.		
Conductivity @ 25° C	16,000	umhos/cm		
Total Dissolved Solids @ 180C	11,100	mg/L		
Total Dissolved Solids (Calc)	11,900	mg/L		
SAR	12.2	ratio		
Total Alkalinity as CaCO3	478	mg/L		
Total Hardness as CaCO3	5,810	mg/L		
Bicarbonate as CaCO3	478	mg/L	7.83	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.500	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.1	mg/L	0.00	meq/L
Chloride	7,150	mg/L	201.70	meq/L
Fluoride	1.98	mg/L	0.10	meq/L
Phosphate	0.570	mg/L	0.02	meq/L
Sulfate	16.8	mg/L	0.35	meq/L
Iron	179	mg/L	6.41	meq/L
Calcium	2,180	mg/L	108.78	meq/L
Magnesium	88.7	mg/L	7.30	meq/L
Potassium	49.1	mg/L	1.25	meq/L
Sodium	2,130	mg/L	92.66	meq/L
Cations			209.99	meq/L
Anions			210.02	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

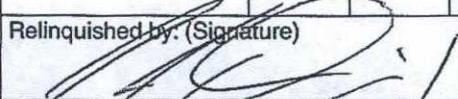
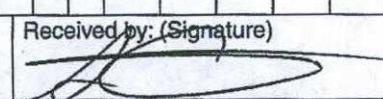
Comments: **Federal 18 #1T**


Analyst


Review

CHAIN OF CUSTODY RECORD

10400

Client: XTO		Project Name / Location: Federal 18 #1T			ANALYSIS / PARAMETERS														
Client Address: 382 CR 3100		Sampler Name: J McDaniel			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.: 787-0519		Client No.: 98031-0528																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
						HgCl ₂	HCl	Cd											
First Swab Water Sample	9/24/10	10 ⁵⁵	55955	Soil Sludge Aqueous	2/460	X	X		X									N	Y
Second Swab Run Water	9/24/10	12 ³⁵	55956	Soil Sludge Aqueous	4	X	X		X									N	Y
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
				Soil Sludge Aqueous															
Relinquished by: (Signature) 					Date	Time	Received by: (Signature) 					Date	Time						
					9/24/10	1400						9/24/10	14:00						
Relinquished by: (Signature)							Received by: (Signature)												
Relinquished by: (Signature)							Received by: (Signature)												

RUSA



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Est. 1970

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

Report Summary

Tuesday September 28, 2010

Report Number: L480758

Samples Received: 09/25/10

Client Project:

Description: Federal 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

September 28, 2010

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

ESC Sample # : L480758-01

Date Received : September 25, 2010
 Description : Federal 18 1T

Site ID : FEDERAL 18 1T

Sample ID : FIRST SWAB WATER SAMPLE

Project # :

Collected By : James McDaniel
 Collection Date : 09/24/10 10:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.15	0.050	mg/l	8021B	09/26/10	100
Toluene	BDL	0.50	mg/l	8021B	09/26/10	100
Ethylbenzene	0.076	0.050	mg/l	8021B	09/26/10	100
Total Xylene	0.67	0.15	mg/l	8021B	09/26/10	100
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021B	09/26/10	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 09/28/10 17:08 Printed: 09/28/10 17:09



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REPORT OF ANALYSIS

September 28, 2010

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

Date Received : September 25, 2010
Description : Federal 18 1T
Sample ID : SECOND SWAB RUN WATER
Collected By : James McDaniel
Collection Date : 09/24/10 12:35

ESC Sample # : L480758-02
Site ID : FEDERAL 18 1T
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.19	0.00050	mg/l	8021B	09/26/10	1
Toluene	0.17	0.0050	mg/l	8021B	09/26/10	1
Ethylbenzene	0.024	0.00050	mg/l	8021B	09/26/10	1
Total Xylene	0.21	0.0015	mg/l	8021B	09/26/10	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	95.3		% Rec.	8021B	09/26/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

September 28, 2010

Date Received : September 25, 2010
 Description : Federal 18 1T
 Sample ID : SECOND SWAB RUN WATER
 Collected By : James McDaniel
 Collection Date : 09/24/10 12:35

ESC Sample # : L480758-03
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	6800	100	mg/l	9056	09/25/10	100
Fluoride	0.71	0.50	mg/l	9056	09/28/10	5
Nitrate	BDL	0.10	mg/l	9056	09/25/10	1
Nitrite	BDL	0.10	mg/l	9056	09/25/10	1
Sulfate	860	250	mg/l	9056	09/28/10	50
Alkalinity	230	20.	mg/l	2320B	09/27/10	1
Alkalinity, Bicarbonate	230	20.	mg/l	2320B	09/28/10	1
Alkalinity, Carbonate	BDL	20.	mg/l	2320B	09/28/10	1
Alkalinity, Hydroxide	BDL	20.	mg/l	2320B	09/28/10	1
Hardness, Total (mg/L as CaCO3)	5800	600	mg/l	130.1	09/27/10	20
pH	6.1		su	9040C	09/28/10	1
Phosphorus, Total	3.8	0.10	mg/l	365.1	09/28/10	1
Specific Conductance	18000		umhos/cm	9050A	09/28/10	1
Dissolved Solids	13000	10.	mg/l	2540C	09/28/10	1
Suspended Solids	1500	1.0	mg/l	2540D	09/27/10	1
Calcium	2300	2.5	mg/l	6010B	09/28/10	5
Iron	370	0.10	mg/l	6010B	09/28/10	1
Magnesium	88.	0.10	mg/l	6010B	09/28/10	1
Potassium	63.	0.50	mg/l	6010B	09/28/10	1
Sodium	1000	0.50	mg/l	6010B	09/28/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 09/28/10 17:08 Printed: 09/28/10 17:09
 L480758-03 (PH) - 6.1@18.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L480758-03	WG500154	SAMP	pH	R1398088	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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.

Summary of Remarks For Samples Printed
09/28/10 at 17:09:19

TSR Signing Reports: 288
R1 - Rush: Sameday

report J's if above limits-B 0.01, T 0.75, E 0.75, X 0.62 mg/l

Sample: L480758-01 Account: XTORNM Received: 09/25/10 09:00 Due Date: 09/27/10 00:00 RPT Date: 09/28/10 17:08

Sample: L480758-02 Account: XTORNM Received: 09/25/10 09:00 Due Date: 09/27/10 00:00 RPT Date: 09/28/10 17:08

Sample: L480758-03 Account: XTORNM Received: 09/25/10 09:00 Due Date: 09/28/10 00:00 RPT Date: 09/28/10 17:08



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

Report Summary

Monday November 08, 2010

Report Number: L487434

Samples Received: 11/05/10

Client Project:

Description: Federal 18-1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

November 08, 2010

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

ESC Sample # : L487434-01

Date Received : November 05, 2010
 Description : Federal 18-1T

Site ID : MCQUIRE WELL

Sample ID : MCQUIRE WELL 11-04-10

Project # :

Collected By : Bernie Lauctes
 Collection Date : 11/04/10 14:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	15.	1.0	mg/l	9056	11/05/10	1
Fluoride	0.32	0.10	mg/l	9056	11/05/10	1
Nitrate	BDL	0.10	mg/l	9056	11/05/10	1
Nitrite	BDL	0.10	mg/l	9056	11/05/10	1
Sulfate	1600	250	mg/l	9056	11/06/10	50
Alkalinity	220	20.	mg/l	2320B	11/08/10	1
Alkalinity, Bicarbonate	220	20.	mg/l	2320B	11/08/10	1
Alkalinity, Carbonate	BDL	20.	mg/l	2320B	11/08/10	1
Alkalinity, Hydroxide	BDL	20.	mg/l	2320B	11/08/10	1
Hardness, Total (mg/L as CaCO3)	1400	300	mg/l	130.1	11/08/10	10
pH	7.2		su	9040C	11/06/10	1
Phosphorus, Total	3.0	0.10	mg/l	365.1	11/08/10	1
Specific Conductance	2600		umhos/cm	9050A	11/08/10	1
Dissolved Solids	1400	10.	mg/l	2540C	11/07/10	1
Suspended Solids	21.	1.0	mg/l	2540D	11/05/10	1
Calcium	490	0.50	mg/l	6010B	11/06/10	1
Iron	1.2	0.10	mg/l	6010B	11/06/10	1
Magnesium	46.	0.10	mg/l	6010B	11/06/10	1
Potassium	5.6	0.50	mg/l	6010B	11/06/10	1
Sodium	120	0.50	mg/l	6010B	11/06/10	1
Benzene	BDL	0.00050	mg/l	8021B	11/05/10	1
Toluene	0.0052	0.0050	mg/l	8021B	11/05/10	1
Ethylbenzene	BDL	0.00050	mg/l	8021B	11/05/10	1
Total Xylene	BDL	0.0015	mg/l	8021B	11/05/10	1
Surrogate Recovery (%) a, a, a-Trifluorotoluene (PID)	99.7		% Rec.	8021B	11/05/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/08/10 17:52 Printed: 11/08/10 17:58
 L487434-01 (PH) - 7.2@13.5c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L487434-01	WG507071 WG507025	SAMP SAMP	pH Nitrate	R1461350 R1459869	T8 J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

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- 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 chromatography 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.



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L487434

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November 08, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG506984	11/05/10 17:40
Ethylbenzene	< .0005	mg/l			WG506984	11/05/10 17:40
Toluene	< .005	mg/l			WG506984	11/05/10 17:40
Total Xylene	< .0015	mg/l			WG506984	11/05/10 17:40
a, a, a-Trifluorotoluene (PID)		% Rec.	100.7	55-122	WG506984	11/05/10 17:40
Benzene	< .0005	mg/l			WG506984	11/05/10 17:40
Ethylbenzene	< .0005	mg/l			WG506984	11/05/10 17:40
Toluene	< .005	mg/l			WG506984	11/05/10 17:40
Total Xylene	< .0015	mg/l			WG506984	11/05/10 17:40
a, a, a-Trifluorotoluene (PID)		% Rec.	100.7	54.8-121.7	WG506984	11/05/10 17:40
Chloride	< 1	mg/l			WG507025	11/05/10 07:27
Fluoride	< .1	mg/l			WG507025	11/05/10 07:27
Nitrate	< .1	mg/l			WG507025	11/05/10 07:27
Nitrite	< .1	mg/l			WG507025	11/05/10 07:27
Calcium	< .5	mg/l			WG507079	11/06/10 20:36
Iron	< .1	mg/l			WG507079	11/06/10 20:36
Magnesium	< .1	mg/l			WG507079	11/06/10 20:36
Potassium	< .5	mg/l			WG507079	11/06/10 20:36
Sodium	< .5	mg/l			WG507079	11/06/10 20:36
Dissolved Solids	< 10	mg/l			WG507057	11/07/10 19:28
Suspended Solids	< 1	mg/l			WG507053	11/05/10 15:47
pH	5.10	su			WG507071	11/06/10 08:54
Sulfate	< 5	mg/l			WG507185	11/06/10 06:39
Hardness, Total (mg/L as CaCO3)	< 30	mg/l			WG507371	11/08/10 12:06
Alkalinity	< 20	mg/l			WG506979	11/08/10 12:19
Specific Conductance	1.30	umhos/cm			WG507156	11/08/10 16:00
Phosphorus, Total	< .1	mg/l			WG507159	11/08/10 16:33

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Fluoride	mg/l	0	0.0700		NA	20	L487436-07	WG507025
Nitrate	mg/l	0	0		0	20	L487436-07	WG507025
Chloride	mg/l	43.0	43.0		0.232	20	L486754-01	WG507025
Calcium	mg/l	220.	220.		0.913	20	L486784-03	WG507079
Iron	mg/l	1.10	1.10		1.83	20	L486784-03	WG507079
Magnesium	mg/l	35.0	35.0		1.15	20	L486784-03	WG507079

* 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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James McDaniel
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Quality Assurance Report
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Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Potassium	mg/l	1.10	1.00	5.83	20	L486784-03	WG507079
Sodium	mg/l	80.0	81.0	0.868	20	L486784-03	WG507079
Dissolved Solids	mg/l	1400	1400	0.285	5	L487434-01	WG507057
Suspended Solids	mg/l	310.	310.	0.322	5	L486931-01	WG507053
pH	su	8.10	8.10	0	1	L485184-02	WG507071
Sulfate	mg/l	1500	1600	4.47	20	L487434-01	WG507185
Sulfate	mg/l	0	3.20	NA	20	L485927-08	WG507185
Hardness, Total (mg/L as CaCO3)	mg/l	700.	710.	0.849	20	L486784-03	WG507371
Hardness, Total (mg/L as CaCO3)	mg/l	380.	390.	2.60	20	L487069-07	WG507371
Alkalinity	mg/l	420.	420.	0.948	20	L486566-19	WG506979
Alkalinity	mg/l	630.	620.	0.963	20	L487069-04	WG506979
Specific Conductance	umhos/cm	270.	270.	0.260	20	L486754-01	WG507156
Specific Conductance	umhos/cm	88.0	88.0	0.228	20	L487553-01	WG507156
Phosphorus, Total	mg/l	6.30	6.20	0.963	20	L486999-03	WG507159
Phosphorus, Total	mg/l	4.10	3.80	7.84	20	L486074-01	WG507159

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0495	99.0	79-114	WG506984
Ethylbenzene	mg/l	.05	0.0515	103.	80-116	WG506984
Toluene	mg/l	.05	0.0501	100.	79-112	WG506984
Total Xylene	mg/l	.15	0.152	102.	84-118	WG506984
a, a, a-Trifluorotoluene (PID)				99.37	55-122	WG506984
Benzene	mg/l	.05	0.0495	99.0	79-114	WG506984
Ethylbenzene	mg/l	.05	0.0515	103.	80-116	WG506984
Toluene	mg/l	.05	0.0501	100.	79-112	WG506984
Total Xylene	mg/l	.15	0.152	102.	84-118	WG506984
a, a, a-Trifluorotoluene (PID)				99.37	54.8-121.7	WG506984
Chloride	mg/l	40	39.5	98.8	90-110	WG507025
Fluoride	mg/l	8	7.91	98.9	90-110	WG507025
Nitrate	mg/l	8	8.24	103.	90-110	WG507025
Nitrite	mg/l	8	7.86	98.3	90-110	WG507025
Calcium	mg/l	11.3	10.8	95.6	85-115	WG507079
Iron	mg/l	1.13	1.05	92.9	85-115	WG507079
Magnesium	mg/l	11.3	11.1	98.2	85-115	WG507079
Potassium	mg/l	11.3	10.8	95.6	85-115	WG507079
Sodium	mg/l	11.3	10.8	95.6	85-115	WG507079

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



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L487434

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

November 08, 2010

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Dissolved Solids	mg/l	8800	8700	98.8	85-115	WG507057
Suspended Solids	mg/l	773	836.	108.	85-115	WG507053
pH	su	6.92	7.00	101.	97.98-102.02	WG507071
Sulfate	mg/l	40	40.5	101.	90-110	WG507185
Hardness, Total (mg/L as CaCO3)	mg/l	200	186.	93.0	85-115	WG507371
Alkalinity	mg/l	40	34.8	87.0	85-115	WG506979
Specific Conductance	umhos/cm	406	420.	103.	85-115	WG507156
Phosphorus, Total	mg/l	1	1.05	105.	85-115	WG507159

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0509	0.0495	102.	79-114	2.73	20	WG506984
Ethylbenzene	mg/l	0.0520	0.0515	104.	80-116	1.11	20	WG506984
Toluene	mg/l	0.0512	0.0501	102.	79-112	2.23	20	WG506984
Total Xylene	mg/l	0.154	0.152	102.	84-118	0.770	20	WG506984
a, a, a-Trifluorotoluene (PID)				99.34	55-122			WG506984
Benzene	mg/l	0.0509	0.0495	102.	79-114	2.73	20	WG506984
Ethylbenzene	mg/l	0.0520	0.0515	104.	80-116	1.11	20	WG506984
Toluene	mg/l	0.0512	0.0501	102.	79-112	2.23	20	WG506984
Total Xylene	mg/l	0.154	0.152	102.	84-118	0.770	20	WG506984
a, a, a-Trifluorotoluene (PID)				99.34	54.8-121.7			WG506984
Chloride	mg/l	39.1	39.5	98.0	90-110	1.02	20	WG507025
Fluoride	mg/l	7.78	7.91	97.0	90-110	1.66	20	WG507025
Nitrate	mg/l	8.28	8.24	104.	90-110	0.484	20	WG507025
Nitrite	mg/l	7.80	7.86	98.0	90-110	0.766	20	WG507025
Dissolved Solids	mg/l	8680	8700	99.0	85-115	0.184	20	WG507057
Suspended Solids	mg/l	808.	836.	104.	85-115	3.41	20	WG507053
pH	su	7.00	7.00	101.	97.98-102.02	0	20	WG507071
Sulfate	mg/l	40.5	40.5	101.	90-110	0	20	WG507185
Hardness, Total (mg/L as CaCO3)	mg/l	189.	186.	94.0	85-115	1.60	20	WG507371

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Alkalinity	mg/l	36.3	34.8	91.0	85-115	4.22	20	WG506979
Specific Conductance	umhos	420.	420.	103.	85-115	0	20	WG507156
Phosphorus, Total	mg/l	1.02	1.05	102.	85-115	2.90	20	WG507159

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0506	0.000640	.05	100.	35-147	L487321-03	WG506984
Ethylbenzene	mg/l	0.0514	0	.05	103.	39-141	L487321-03	WG506984
Toluene	mg/l	0.0501	0	.05	100.	35-148	L487321-03	WG506984
Total Xylene	mg/l	0.153	0	.15	102.	33-151	L487321-03	WG506984
a, a, a-Trifluorotoluene (PID)					98.59	55-122		WG506984
Benzene	mg/l	0.0506	0.000640	.05	100.	35-147	L487321-03	WG506984
Ethylbenzene	mg/l	0.0514	0	.05	103.	39-141	L487321-03	WG506984
Toluene	mg/l	0.0501	0	.05	100.	35-148	L487321-03	WG506984
Total Xylene	mg/l	0.153	0	.15	102.	33-151	L487321-03	WG506984
a, a, a-Trifluorotoluene (PID)					98.59	54.8-121.7		WG506984
Chloride	mg/l	63.6	15.0	50	97.2	80-120	L487434-01	WG507025
Fluoride	mg/l	5.52	0.320	5	104.	80-120	L487434-01	WG507025
Nitrate	mg/l	3.39	0	5	67.8*	80-120	L487434-01	WG507025
Nitrite	mg/l	4.97	0	5	99.4	80-120	L487434-01	WG507025
Calcium	mg/l	234.	220.	11.3	124.	75-125	L486784-03	WG507079
Iron	mg/l	2.12	1.10	1.13	90.3	75-125	L486784-03	WG507079
Potassium	mg/l	11.8	1.00	11.3	95.6	75-125	L486784-03	WG507079
Sodium	mg/l	89.8	81.0	11.3	77.9	75-125	L486784-03	WG507079
Sulfate	mg/l	60.9	9.60	50	103.	80-120	L485927-06	WG507185
Hardness, Total (mg/L as CaCO3)	mg/l	1130	680.	150	75.0*	80-120	L486784-02	WG507371
Alkalinity	mg/l	881.	610.	200	67.8*	80-120	L486784-02	WG506979
Phosphorus, Total	mg/l	5.64	3.40	2.5	89.6	80-120	L486084-02	WG507159

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0532	0.0506	105.	35-147	4.93	20	L487321-03	WG506984
Ethylbenzene	mg/l	0.0538	0.0514	108.	39-141	4.49	20	L487321-03	WG506984
Toluene	mg/l	0.0529	0.0501	106.	35-148	5.39	20	L487321-03	WG506984
Total Xylene	mg/l	0.159	0.153	106.	33-151	3.86	20	L487321-03	WG506984
a, a, a-Trifluorotoluene (PID)					98.14	55-122			WG506984
Benzene	mg/l	0.0532	0.0506	105.	35-147	4.93	20	L487321-03	WG506984
Ethylbenzene	mg/l	0.0538	0.0514	108.	39-141	4.49	20	L487321-03	WG506984
Toluene	mg/l	0.0529	0.0501	106.	35-148	5.39	20	L487321-03	WG506984
Total Xylene	mg/l	0.159	0.153	106.	33-151	3.86	20	L487321-03	WG506984

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YOUR LAB OF CHOICE

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James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L487434

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November 08, 2010

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
a, a, a-Trifluorotoluene (PID)				98.14	54.8-121.7				
Chloride	mg/l	63.5	63.6	97.0	80-120	0.157	20	L487434-01	WG507025
Fluoride	mg/l	5.49	5.52	103.	80-120	0.545	20	L487434-01	WG507025
Nitrate	mg/l	3.08	3.39	61.6*	80-120	9.58	20	L487434-01	WG507025
Nitrite	mg/l	4.94	4.97	98.8	80-120	0.605	20	L487434-01	WG507025
Calcium	mg/l	232.	234.	106.	75-125	0.858	20	L486784-03	WG507079
Iron	mg/l	2.11	2.12	89.4	75-125	0.473	20	L486784-03	WG507079
Potassium	mg/l	11.9	11.8	96.5	75-125	0.844	20	L486784-03	WG507079
Sodium	mg/l	93.6	89.8	112.	75-125	4.14	20	L486784-03	WG507079
Sulfate	mg/l	60.0	60.9	101.	80-120	1.49	20	L485927-06	WG507185
Hardness, Total (mg/L as CaCO3)	mg/l	1130	1130	75.0*	80-120	0	20	L486784-02	WG507371
Alkalinity	mg/l	884.	881.	68.5*	80-120	0.340	20	L486784-02	WG506979
Phosphorus, Total	mg/l	5.71	5.64	92.4	80-120	1.23	20	L486084-02	WG507159

Batch number / Run number / Sample number cross reference

WG506984: R1459849: L487434-01
 WG507025: R1459869: L487434-01
 WG507079: R1460350: L487434-01
 WG507057: R1460890: L487434-01
 WG507053: R1460949: L487434-01
 WG507071: R1461350: L487434-01
 WG507185: R1462009: L487434-01
 WG507371: R1462349: L487434-01
 WG506979: R1462769: L487434-01
 WG507156: R1463029: L487434-01
 WG507392: R1463089: L487434-01
 WG507395: R1463109: L487434-01
 WG507442: R1463129: L487434-01
 WG507159: R1463209: L487434-01

* * Calculations are performed prior to rounding of reported values .
 * Performance of this Analyte is outside of established criteria.
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James McDaniel
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Aztec, NM 87410

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Level II

L487434

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Est. 1970

November 08, 2010

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

Report Summary

Monday November 15, 2010

Report Number: L487440

Samples Received: 11/05/10

Client Project:

Description: Federal 18-1T

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:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

November 15, 2010

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

Date Received : November 05, 2010
Description : Federal 18-1T
Sample ID : MCQUIRE WELL
Collected By : Bernie Lauctes
Collection Date : 11/04/10 14:40

ESC Sample # : L487440-01

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sulfate Reducing Bacteria	Present			BART	11/15/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/15/10 16:16 Printed: 11/15/10 16:16
L487440-01 (SRB) - SRB Population= 500 cfu/ml

Summary of Remarks For Samples Printed
11/15/10 at 16:16:52

TSR Signing Reports: 288
R5 - Desired TAT

report J's if above limits-B 0.01, T 0.75, E 0.75, X 0.62 mg/l

Sample: L487440-01 Account: XTORNM Received: 11/05/10 09:00 Due Date: 11/12/10 00:00 RPT Date: 11/15/10 16:16
Refer to L487434.



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L487440

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

November 15, 2010

Batch number / Run number / Sample number cross reference

: R1473092: L487440-01

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* Performance of this Analyte is outside of established criteria.
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YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
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Quality Assurance Report
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November 15, 2010

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.

Company Name/Address
XTO Energy, Inc.
382 County Road 3100
Aztec, NM 87410

Alternate Billing
 XTORN031810S
 Report to: James McDaniel
 E-mail to: James_McDaniel@xtoenergy.com

Analysis/Container/Preservative

Chain of Custody
 Page 1 of 2
A233
 Prepared by:
 **ENVIRONMENTAL Science corp**
 12065 Lebanon Road
 Mt. Juliet TN 37122
 Phone (615)758-5858
 Phone (800) 767-5859
 FAX (615)758-5859

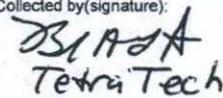
Project Description: **Federal 18-1T**

City/State Collected:

PHONE: 505-333-3701
 FAX:

Client Project No.

Lab Project #

Collected by: ~~James McDaniel~~
Bernie Lavetes
 Collected by (signature):

Tetra Tech
 Packed on Ice N Y X

Site/Facility ID#
MCQUIRE WELL
 P.O.#
 Rush? (Lab MUST be Notified)
 Next Day.....100%
 Two Day.....50%
 Three Day.....25%

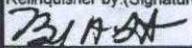
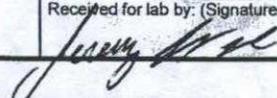
Date Results Needed
 No _____ of _____ Cntrs
 Email? No Yes
 FAX? No Yes

8021-BTEX/40ml Amb/HCL
 Nitrate, Nitrite/250ml HDPE/No Pres
 pH, SPCON, TDS/1L HDPE/No Pres
 TSS/1L HDPE/No Pres
 ALK, ALKBI, ALKGA, ALKOH/1L HDPE/No Pres
 Chloride, Fluoride, Sulfate/500ml HDPE/No Pres
 PT/250ml HDPE/H2SO4 L2
 HARD/250ml HDPE/HNO3 L2

CoCode (lab use only)
XTORNM
 Template/Prelogin
 Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	8021-BTEX/40ml Amb/HCL	Nitrate, Nitrite/250ml HDPE/No Pres	pH, SPCON, TDS/1L HDPE/No Pres	TSS/1L HDPE/No Pres	ALK, ALKBI, ALKGA, ALKOH/1L HDPE/No Pres	Chloride, Fluoride, Sulfate/500ml HDPE/No Pres	PT/250ml HDPE/H2SO4 L2	HARD/250ml HDPE/HNO3 L2	Remarks/contaminant	Sample # (lab only)
Mcquire Well 11-04-10	GRAB	GW	-	11-04-10	14:40	10	X	X	X	X	X	X	X	X	-	L48743401

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other GW Refer to L487440.
 pH _____ Temp _____
 Remarks: 434198126233 Flow _____ Other _____

Relinquisher by: (Signature) 	Date: 11/4/10	Time: 1515	Received by: (Signature) 	Samples returned via: FedEx <u>X</u> UPS _____ Other _____ Fed Ex	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5c	Bottles Received: 11 + 1 TB
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: 11/5/10	pH Checked: L2

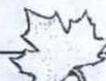
Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORN031810S		Analysis/Container/Preservative 7 FEICP, CAICP, MGICP, KICP, NAICP/ 500ml HDPE/ HNO3 SRB 1-500 mL Poly		Chain of Custody Page 2 of 2	
Project Description: Federal 18-1T		City/State Collected:		Prepared by:  ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859		CoCode (lab use only) XTORNM Template/Prelogin Shipped Via: Fed Ex	
PHONE: 505-333-3701 FAX:	Client Project No.	Lab Project #		Date Results Needed		No	
Collected by: James McDaniel <i>Bernie Loucks</i>	Site/Facility ID# MCQUIRE WELL	P.O.#		Rush? (Lab MUST be Notified) <input checked="" type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Collected by (signature): <i>BIAZA</i> Tetra Tech	Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>	Date Results Needed		of		Cntrs	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	
Mcquire Well 11-04-10	Grab	GW	-	11-04-10	14:40	10	X X
Remarks/contaminant		Sample # (lab only)					
-		L48743401					

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other GW

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquisher by: (Signature) <i>BIAZA</i>	Date: 11/4/10	Time: 1515	Received by: (Signature) 	Samples returned via: FedEx_X_UPS_Other_ FedEx	Condition (lab use only) OK
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5	Bottles Received: 11 + 1TB
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Jerry</i>	Date: 11/5/10	Time: 0900
pH Checked:		NCF:			

COVER LETTER

Wednesday, January 05, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519

FAX (505) 333-3280

RE: Federal 18 #1T

Order No.: 1012482

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 12/13/2010 for the analyses presented in the following report.

This report is an addendum to the report dated January 04, 2011. This is an updated report.

No determination of compounds below these (denoted by the ND or < sign) has been made.

Reporting limits are determined by EPA methodology.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 05-Jan-11

CLIENT: XTO Energy
 Lab Order: 1012482
 Project: Federal 18 #1T
 Lab ID: 1012482-01

Client Sample ID: Federal 18 #1T
 Collection Date: 12/10/2010 11:10:00 AM
 Date Received: 12/13/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LJB
Fluoride	ND	2.0		mg/L	20	12/13/2010 11:54:59 PM
Chloride	2800	100		mg/L	200	12/21/2010 10:48:01 PM
Bromide	0.11	0.10		mg/L	1	12/13/2010 11:43:45 PM
Nitrate (As N)+Nitrite (As N)	ND	4.0		mg/L	20	12/21/2010 10:36:48 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	12/13/2010 11:43:45 PM
Sulfate	1400	25		mg/L	50	12/21/2010 11:21:42 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	1900	50		mg/L	50	12/21/2010 10:47:11 AM
Magnesium	74	5.0		mg/L	5	12/21/2010 10:36:45 AM
Potassium	22	5.0		mg/L	5	12/21/2010 10:36:45 AM
Sodium	130	5.0		mg/L	5	12/21/2010 10:36:45 AM
SM 2320B: ALKALINITY						Analyst: IC
Alkalinity, Total (As CaCO3)	210	20		mg/L CaCO3	1	12/19/2010 3:16:00 PM
Carbonate	ND	2.0		mg/L CaCO3	1	12/19/2010 3:16:00 PM
Bicarbonate	210	20		mg/L CaCO3	1	12/19/2010 3:16:00 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	8900	0.010		µmhos/cm	1	12/22/2010 12:12:00 PM
SM4500-H+B: PH						Analyst: IC
pH	6.36	0.100	H	pH units	1	12/19/2010 3:16:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	7610	100		mg/L	1	12/15/2010 7:59:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Federal 18 #1T

Work Order: 1012482

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 300.0: Anions

Sample ID: MB *MBLK* Batch ID: R42637 Analysis Date: 12/13/2010 4:14:33 PM

Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								

Sample ID: MB *MBLK* Batch ID: R42674 Analysis Date: 12/14/2010 8:14:59 AM

Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								

Sample ID: MB *MBLK* Batch ID: R42674 Analysis Date: 12/14/2010 8:02:35 PM

Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								

Sample ID: MB *MBLK* Batch ID: R42804 Analysis Date: 12/21/2010 1:05:40 PM

Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								

Sample ID: LCS *LCS* Batch ID: R42637 Analysis Date: 12/13/2010 4:25:46 PM

Fluoride	0.4734	mg/L	0.10	0.5	0	94.7	90	110			
Chloride	4.612	mg/L	0.50	5	0.0904	90.4	90	110			
Bromide	2.268	mg/L	0.10	2.5	0	90.7	90	110			
Nitrate (As N)+Nitrite (As N)	3.347	mg/L	0.20	3.5	0	95.6	90	110			
Phosphorus, Orthophosphate (As P)	4.700	mg/L	0.50	5	0	94.0	90	110			
Sulfate	9.346	mg/L	0.50	10	0.1205	92.3	90	110			

Sample ID: LCS *LCS* Batch ID: R42674 Analysis Date: 12/14/2010 8:26:12 AM

Fluoride	0.5382	mg/L	0.10	0.5	0	108	90	110			
Chloride	4.938	mg/L	0.50	5	0	98.8	90	110			
Bromide	2.526	mg/L	0.10	2.5	0	101	90	110			
Nitrate (As N)+Nitrite (As N)	3.574	mg/L	0.20	3.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.055	mg/L	0.50	5	0	101	90	110			
Sulfate	9.949	mg/L	0.50	10	0	99.5	90	110			

Sample ID: LCS *LCS* Batch ID: R42674 Analysis Date: 12/14/2010 8:13:49 PM

Fluoride	0.5332	mg/L	0.10	0.5	0	107	90	110			
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Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Federal 18 #1T

Work Order: 1012482

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		<i>LCS</i>					Batch ID: R42674	Analysis Date: 12/14/2010 8:13:49 PM			
Chloride	4.918	mg/L	0.50	5	0	98.4	90	110			
Bromide	2.488	mg/L	0.10	2.5	0	99.5	90	110			
Nitrate (As N)+Nitrite (As N)	3.552	mg/L	0.20	3.5	0	101	90	110			
Phosphorus, Orthophosphate (As P)	4.967	mg/L	0.50	5	0	99.3	90	110			
Sulfate	9.845	mg/L	0.50	10	0	98.4	90	110			
Sample ID: LCS		<i>LCS</i>					Batch ID: R42804	Analysis Date: 12/21/2010 2:26:26 PM			
Fluoride	0.5189	mg/L	0.10	0.5	0	104	90	110			
Chloride	5.014	mg/L	0.50	5	0	100	90	110			
Bromide	2.530	mg/L	0.10	2.5	0	101	90	110			
Nitrate (As N)+Nitrite (As N)	3.571	mg/L	0.20	3.5	0	102	90	110			
Phosphorus, Orthophosphate (As P)	5.075	mg/L	0.50	5	0	101	90	110			
Sulfate	10.13	mg/L	0.50	10	0	101	90	110			
Method: SM 2320B: Alkalinity											
Sample ID: MB-1		<i>MBLK</i>					Batch ID: R42779	Analysis Date: 12/19/2010 1:47:00 PM			
Alkalinity, Total (As CaCO3)	ND	mg/L Ca	20								
Carbonate	ND	mg/L Ca	2.0								
Bicarbonate	ND	mg/L Ca	20								
Sample ID: MB-2		<i>MBLK</i>					Batch ID: R42779	Analysis Date: 12/19/2010 7:02:00 PM			
Alkalinity, Total (As CaCO3)	ND	mg/L Ca	20								
Carbonate	ND	mg/L Ca	2.0								
Bicarbonate	ND	mg/L Ca	20								
Sample ID: MB-3		<i>MBLK</i>					Batch ID: R42779	Analysis Date: 12/20/2010 12:35:00 AM			
Alkalinity, Total (As CaCO3)	ND	mg/L Ca	20								
Carbonate	ND	mg/L Ca	2.0								
Bicarbonate	ND	mg/L Ca	20								
Sample ID: LCS-2		<i>LCS</i>					Batch ID: R42779	Analysis Date: 12/19/2010 1:52:00 PM			
Alkalinity, Total (As CaCO3)	79.44	mg/L Ca	20	80	0	99.3	96.5	104			
Sample ID: LCS-2		<i>LCS</i>					Batch ID: R42779	Analysis Date: 12/19/2010 7:07:00 PM			
Alkalinity, Total (As CaCO3)	79.52	mg/L Ca	20	80	0	99.4	96.5	104			
Sample ID: LCS-3		<i>LCS</i>					Batch ID: R42779	Analysis Date: 12/20/2010 12:41:00 AM			
Alkalinity, Total (As CaCO3)	80.72	mg/L Ca	20	80	0	101	96.5	104			

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Federal 18 #1T

Work Order: 1012482

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		MBLK									
Batch ID: R42762											Analysis Date: 12/17/2010 4:27:32 PM
Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								
Sample ID: MB		MBLK									
Batch ID: R42786											Analysis Date: 12/21/2010 9:38:42 AM
Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								
Sample ID: LCS		LCS									
Batch ID: R42762											Analysis Date: 12/17/2010 4:30:51 PM
Calcium	51.83	mg/L	1.0	50.5	0	103	80	120			
Magnesium	52.38	mg/L	1.0	50.5	0	104	80	120			
Sodium	51.49	mg/L	1.0	50.5	0	102	80	120			
Sample ID: LCSRR		LCS									
Batch ID: R42762											Analysis Date: 12/17/2010 4:35:02 PM
Calcium	41.88	mg/L	1.0	50.5	0	82.9	80	120	21.3	0	
Magnesium	42.26	mg/L	1.0	50.5	0	83.7	80	120	21.4	0	
Sodium	41.84	mg/L	1.0	50.5	0	82.8	80	120	20.7	0	
Sample ID: LCS		LCS									
Batch ID: R42786											Analysis Date: 12/21/2010 9:41:18 AM
Calcium	51.21	mg/L	1.0	50.5	0.1547	101	80	120			
Magnesium	50.80	mg/L	1.0	50.5	0.1655	100	80	120			
Potassium	49.52	mg/L	1.0	55	0.1727	89.7	80	120			
Sodium	49.52	mg/L	1.0	50.5	0.1497	97.8	80	120			
Sample ID: LCSRR		LCS									
Batch ID: R42786											Analysis Date: 12/21/2010 9:43:34 AM
Potassium	49.24	mg/L	1.0	55	0.1727	89.2	80	120	0.563	0	
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-24872		MBLK									
Batch ID: 24872											Analysis Date: 12/15/2010 7:59:00 PM
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-24872		LCS									
Batch ID: 24872											Analysis Date: 12/15/2010 7:59:00 PM
Total Dissolved Solids	1016	mg/L	20.0	1000	7	101	80	120			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits



COVER LETTER

Friday, January 07, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519

FAX (505) 333-3280

RE: Federal 18 #1T

Order No.: 1101166

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/6/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Jan-11

CLIENT: XTO Energy
 Lab Order: 1101166
 Project: Federal 18 #1T
 Lab ID: 1101166-01

Client Sample ID: Water Sample
 Collection Date: 1/5/2011 11:30:00 AM
 Date Received: 1/6/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	67	5.0		µg/L	5	1/6/2011 6:18:16 PM
Toluene	93	5.0		µg/L	5	1/6/2011 6:18:16 PM
Ethylbenzene	7.9	5.0		µg/L	5	1/6/2011 6:18:16 PM
Xylenes, Total	25	10		µg/L	5	1/6/2011 6:18:16 PM
Surr: 4-Bromofluorobenzene	129	81.3-151		%REC	5	1/6/2011 6:18:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Federal 18 #1T

Work Order: 1101166

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK Batch ID: R43022 Analysis Date: 1/6/2011 10:01:13 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100NG BTEX LCS LCS Batch ID: R43022 Analysis Date: 1/6/2011 9:20:45 PM

Benzene	21.59	µg/L	1.0	20	0	108	84.7	118
Toluene	22.29	µg/L	1.0	20	0	111	82	123
Ethylbenzene	22.10	µg/L	1.0	20	0	110	83	118
Xylenes, Total	66.91	µg/L	2.0	60	0	112	85.4	119

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

1/6/2011

Work Order Number 1101166

Received by: AMG

Checklist completed by:

[Handwritten Signature]
Signature

[Handwritten Date: 1/7/11]
Date

Sample ID labels checked by:

[Handwritten Initials: AMG]
Initials

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature? 1.6° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



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

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

Report Summary

Monday January 10, 2011

Report Number: L496359

Samples Received: 01/06/11

Client Project:

Description: Federal 18 #1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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

REPORT OF ANALYSIS

January 10, 2011

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

Date Received : January 06, 2011
 Description : Federal 18 #1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 01/05/10 11:30

ESC Sample # : L496359-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	1600	50.	mg/l	9056	01/06/11	50
Fluoride	2.4	0.10	mg/l	9056	01/06/11	1
Nitrate	BDL	0.10	mg/l	9056	01/06/11	1
Nitrite	BDL	0.10	mg/l	9056	01/06/11	1
Sulfate	1800	250	mg/l	9056	01/06/11	50
Alkalinity	230	20.	mg/l	2320B	01/10/11	1
Alkalinity, Bicarbonate	230	20.	mg/l	2320B	01/10/11	1
Alkalinity, Carbonate	BDL	20.	mg/l	2320B	01/10/11	1
Alkalinity, Hydroxide	BDL	20.	mg/l	2320B	01/10/11	1
Hardness, Total (mg/L as CaCO3)	3100	600	mg/l	130.1	01/07/11	20
pH	6.6		su	9040C	01/07/11	1
Phosphorus, Total	1.9	0.10	mg/l	365.1	01/07/11	1
Specific Conductance	6000		umhos/cm	9050A	01/10/11	1
Dissolved Solids	4800	10.	mg/l	2540C	01/10/11	1
Suspended Solids	18.	1.0	mg/l	2540D	01/06/11	1
Calcium	1100	0.50	mg/l	6010B	01/08/11	1
Iron	18.	0.10	mg/l	6010B	01/08/11	1
Magnesium	53.	0.10	mg/l	6010B	01/08/11	1
Potassium	16.	0.50	mg/l	6010B	01/08/11	1
Sodium	110	0.50	mg/l	6010B	01/08/11	1
Benzene	0.073	0.0050	mg/l	8021B	01/06/11	10
Toluene	0.099	0.050	mg/l	8021B	01/06/11	10
Ethylbenzene	0.010	0.0050	mg/l	8021B	01/06/11	10
Total Xylene	0.039	0.015	mg/l	8021B	01/06/11	10
Surrogate Recovery(%) a, a, a-Trifluorotoluene (PID)	109.		% Rec.	8021B	01/06/11	10

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: 01/10/11 16:18 Printed: 01/10/11 16:18
 L496359-01 (PH) - 6.6@17.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L496359-01	WG516357	SAMP	pH	R1529689	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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.

Summary of Remarks For Samples Printed
01/10/11 at 16:18:28

TSR Signing Reports: 288
R3 - Rush: Two Day

No Energy fee. Charge \$10 Shipping Fee per Dave V 1/4/10 When transferring TS to a new dash # DO
NOT charge a fee

Sample: L496359-01 Account: XTORNM Received: 01/06/11 09:00 Due Date: 01/10/11 00:00 RPT Date: 01/10/11 16:18



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L496359

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

January 10, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG516259	01/06/11 13:35
Ethylbenzene	< .0005	mg/l			WG516259	01/06/11 13:35
Toluene	< .005	mg/l			WG516259	01/06/11 13:35
Total Xylene	< .0015	mg/l			WG516259	01/06/11 13:35
a, a, a-Trifluorotoluene (PID)		% Rec.	109.0	55-122	WG516259	01/06/11 13:35
Suspended Solids	< 1	mg/l			WG516167	01/06/11 15:07
Chloride	< 1	mg/l			WG516230	01/06/11 09:08
Fluoride	< .1	mg/l			WG516230	01/06/11 09:08
Nitrate	< .1	mg/l			WG516230	01/06/11 09:08
Sulfate	< 5	mg/l			WG516230	01/06/11 09:08
pH	5.20	su			WG516357	01/07/11 14:05
Hardness, Total (mg/L as CaCO3)	< 30	mg/l			WG516428	01/07/11 15:02
Phosphorus, Total	< .1	mg/l			WG516349	01/07/11 16:15
Calcium	< .5	mg/l			WG516344	01/08/11 20:22
Iron	< .1	mg/l			WG516344	01/08/11 20:22
Magnesium	< .1	mg/l			WG516344	01/08/11 20:22
Potassium	< .5	mg/l			WG516344	01/08/11 20:22
Sodium	0.674	mg/l			WG516344	01/08/11 20:22
Dissolved Solids	< 10	mg/l			WG516306	01/10/11 12:21
Alkalinity	< 20	mg/l			WG516671	01/10/11 12:46
Specific Conductance	1.60	umhos/cm			WG516480	01/10/11 12:30

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Suspended Solids	mg/l	9.00	9.00		0	5	L496366-01	WG516167
Suspended Solids	mg/l	18.0	18.0		2.82	5	L496094-01	WG516167
Fluoride	mg/l	0.110	0		NA	20	L495870-03	WG516230
Chloride	mg/l	21.0	21.0		0	20	L496385-09	WG516230
pH	su	6.90	6.90		0	1	L495874-01	WG516357
pH	su	7.00	6.90		1.44*	1	L496065-02	WG516357
Hardness, Total (mg/L as CaCO3)	mg/l	45.0	39.0		14.9	20	L496555-02	WG516428
Hardness, Total (mg/L as CaCO3)	mg/l	200.	200.		0.499	20	L496096-02	WG516428

* 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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Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Result	Duplicate				
Phosphorus, Total	mg/l	3.20	3.00	6.14	20	L496410-01	WG516349	
Phosphorus, Total	mg/l	2.00	2.00	0.501	20	L496159-01	WG516349	
Calcium	mg/l	3.80	3.79	1.06	20	L496474-10	WG516344	
Iron	mg/l	0.260	0.252	5.03	20	L496474-10	WG516344	
Magnesium	mg/l	1.20	1.20	0	20	L496474-10	WG516344	
Potassium	mg/l	0.850	0.810	5.17	20	L496474-10	WG516344	
Sodium	mg/l	220.	210.	3.28	20	L496474-10	WG516344	
Dissolved Solids	mg/l	580.	580.	0.692	5	L496474-02	WG516306	
Alkalinity	mg/l	40.0	41.0	1.72	20	L496700-01	WG516671	
Alkalinity	mg/l	0	0	0	20	L496509-01	WG516671	
Specific Conductance	umhos/cm	92.0	92.0	0.545	20	L496700-02	WG516480	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0516	103.	79-114	WG516259
Ethylbenzene	mg/l	.05	0.0541	108.	80-116	WG516259
Toluene	mg/l	.05	0.0526	105.	79-112	WG516259
Total Xylene	mg/l	.15	0.160	107.	84-118	WG516259
a, a, a-Trifluorotoluene (PID)				108.0	55-122	WG516259
Suspended Solids	mg/l	773	784.	101.	85-115	WG516167
Chloride	mg/l	40	40.0	100.	90-110	WG516230
Fluoride	mg/l	8	8.20	103.	90-110	WG516230
Nitrate	mg/l	8	8.20	103.	90-110	WG516230
Sulfate	mg/l	40	40.0	100.	90-110	WG516230
pH	su	6.92	6.90	99.7	97.98-102.02	WG516357
Hardness, Total (mg/L as CaCO3)	mg/l	200	188.	94.0	85-115	WG516428
Phosphorus, Total	mg/l	1	1.05	105.	85-115	WG516349
Calcium	mg/l	11.3	11.6	103.	85-115	WG516344
Iron	mg/l	1.13	1.06	93.8	85-115	WG516344
Magnesium	mg/l	11.3	11.8	104.	85-115	WG516344
Potassium	mg/l	11.3	11.0	97.3	85-115	WG516344
Sodium	mg/l	11.3	11.3	100.	85-115	WG516344
Dissolved Solids	mg/l	8800	8790	99.9	85-115	WG516306
Alkalinity	mg/l	40	38.2	95.5	85-115	WG516671

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Specific Conductance	umhos/cm	561	570.	102.	85-115	WG516480

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0527	0.0516	105.	79-114	2.00	20	WG516259
Ethylbenzene	mg/l	0.0555	0.0541	111.	80-116	2.68	20	WG516259
Toluene	mg/l	0.0535	0.0526	107.	79-112	1.73	20	WG516259
Total Xylene	mg/l	0.165	0.160	110.	84-118	3.01	20	WG516259
a, a, a-Trifluorotoluene (PID)				109.0	55-122			WG516259
Suspended Solids	mg/l	756.	784.	98.0	85-115	3.64	20	WG516167
Nitrite	mg/l	7.90	7.80	790*	-	1.27	20	WG516230
Chloride	mg/l	40.0	40.0	100.	90-110	0	20	WG516230
Fluoride	mg/l	8.20	8.20	102.	90-110	0	20	WG516230
Nitrate	mg/l	8.20	8.20	102.	90-110	0	20	WG516230
Sulfate	mg/l	40.0	40.0	100.	90-110	0	20	WG516230
pH	su	6.90	6.90	100.	97.98-102.02	0	20	WG516357
Hardness, Total (mg/L as CaCO3)	mg/l	189.	188.	94.0	85-115	0.531	20	WG516428
Phosphorus, Total	mg/l	1.06	1.05	106.	85-115	0.948	20	WG516349
Dissolved Solids	mg/l	8810	8790	100.	85-115	0.227	20	WG516306
Alkalinity	mg/l	38.9	38.2	97.0	85-115	1.82	20	WG516671
Specific Conductance	umhos/	570.	570.	102.	85-115	0	20	WG516480

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/l	0.0478	0	.05	95.6	35-147	L496405-03	WG516259
Ethylbenzene	mg/l	0.0520	0	.05	104.	39-141	L496405-03	WG516259
Toluene	mg/l	0.0495	0	.05	98.9	35-148	L496405-03	WG516259
Total Xylene	mg/l	0.152	0	.15	101.	33-151	L496405-03	WG516259
a, a, a-Trifluorotoluene (PID)					107.3	55-122		WG516259
Chloride	mg/l	50.0	0	50	100.	80-120	L496002-01	WG516230
Fluoride	mg/l	5.20	0	5	104.	80-120	L496002-01	WG516230
Sulfate	mg/l	50.0	0	50	100.	80-120	L496002-01	WG516230
Hardness, Total (mg/L as CaCO3)	mg/l	250.	120.	150	86.7	80-120	L496131-01	WG516428
Phosphorus, Total	mg/l	2.38	0	2.5	95.2	80-120	L496183-04	WG516349

* Performance of this Analyte is outside of established criteria.

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Calcium	mg/l	14.8	3.79	11.3	97.4	75-125	L496474-10	WG516344
Iron	mg/l	1.27	0.252	1.13	90.1	75-125	L496474-10	WG516344
Magnesium	mg/l	12.4	1.20	11.3	99.1	75-125	L496474-10	WG516344
Potassium	mg/l	11.4	0.810	11.3	93.7	75-125	L496474-10	WG516344
Sodium	mg/l	234.	210.	11.3	212.*	75-125	L496474-10	WG516344
Alkalinity	mg/l	625.	500.	200	62.5*	80-120	L496518-04	WG516671

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/l	0.0481	0.0478	96.1	35-147	0.530	20	L496405-03	WG516259
Ethylbenzene	mg/l	0.0519	0.0520	104.	39-141	0.190	20	L496405-03	WG516259
Toluene	mg/l	0.0493	0.0495	98.6	35-148	0.280	20	L496405-03	WG516259
Total Xylene	mg/l	0.152	0.152	101.	33-151	0.150	20	L496405-03	WG516259
a, a, a-Trifluorotoluene (PID)				106.2	55-122				WG516259
Chloride	mg/l	51.0	50.0	102.	80-120	1.98	20	L496002-01	WG516230
Fluoride	mg/l	5.10	5.20	102.	80-120	1.94	20	L496002-01	WG516230
Sulfate	mg/l	51.0	50.0	102.	80-120	1.98	20	L496002-01	WG516230
Hardness, Total (mg/L as CaCO3)	mg/l	248.	250.	85.3	80-120	0.803	20	L496131-01	WG516428
Phosphorus, Total	mg/l	2.37	2.38	94.8	80-120	0.421	20	L496183-04	WG516349
Calcium	mg/l	14.6	14.8	95.7	75-125	1.36	20	L496474-10	WG516344
Iron	mg/l	1.24	1.27	87.4	75-125	2.39	20	L496474-10	WG516344
Magnesium	mg/l	12.3	12.4	98.2	75-125	0.810	20	L496474-10	WG516344
Potassium	mg/l	11.6	11.4	95.5	75-125	1.74	20	L496474-10	WG516344
Sodium	mg/l	234.	234.	212.*	75-125	0	20	L496474-10	WG516344
Alkalinity	mg/l	627.	625.	63.5*	80-120	0.319	20	L496518-04	WG516671

Batch number / Run number / Sample number cross reference

WG516259: R1528749: L496359-01
 WG516167: R1528989: L496359-01
 WG516230: R1529509: L496359-01
 WG516357: R1529689: L496359-01
 WG516428: R1529870: L496359-01
 WG516349: R1529989: L496359-01
 WG516344: R1530749: L496359-01
 WG516306: R1532030: L496359-01
 WG516672: R1532429: L496359-01
 WG516673: R1532430: L496359-01
 WG516671: R1532449: L496359-01
 WG516674: R1532469: L496359-01
 WG516480: R1532489: L496359-01

* * 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.'



L · A · B S · C · I · E · N · C · E · S

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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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S Report to: James McDaniel E-mail to: James_McDaniel@xtoenergy.com		Analysis/Container/Preservative General Chemistry / 5-500ml / HNO ₃ BTEX (cool) / 2-400ml / Cool - HCL				Chain of Custody Page ___ of ___	
Project Description: Federal 18 #1T		Client Project No. —		City/State Collected: Farmington, NM				Prepared by: ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
PHONE: 505-333-3701 FAX:		Site/Facility ID# Federal 18 #1T		Lab Project # — P.O.# —				CoCode (lab use only) XTORNM Template/Prelogin Shipped Via: Fed Ex	
Collected by: James McDaniel Collected by (signature): <i>[Signature]</i> Packed on Ice <input checked="" type="checkbox"/>		Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day.....100% <input checked="" type="checkbox"/> TWO Day.....50% <input type="checkbox"/> Three Day.....25%		Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes				Remarks/contaminant Sample # (lab only) 496359-01	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cont			
Water Sample	Grab	GW	500'	1/5/11	11:30	60	X	X	

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____
 Remarks: *4341 9802 1570* Flow _____ Other _____

Relinquisher by: (Signature) <i>[Signature]</i>	Date: 1/5/11	Time: 1330	Received by: (Signature) <i>[Signature]</i>	Samples returned via: FedEx_X_UPS_Other_	Condition (lab use only) COCSI
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4	Bottles Received: 7
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 1-6-11	Time: 9:00
				pH Checked:	NCF:



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

Report Summary

Thursday February 03, 2011

Report Number: L499517

Samples Received: 01/29/11

Client Project:

Description: Federal 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

February 03, 2011

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

Date Received : January 29, 2011
 Description : Federal 18 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 01/28/11 14:20

ESC Sample # : L499517-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	930	20.	mg/l	9056	01/31/11	20
pH	6.4		su	9040C	02/01/11	1
Specific Conductance	4900		umhos/cm	9050A	02/02/11	1
Benzene	0.060	0.0050	mg/l	8021B	01/29/11	10
Toluene	0.093	0.050	mg/l	8021B	01/29/11	10
Ethylbenzene	0.010	0.0050	mg/l	8021B	01/29/11	10
Total Xylene	0.033	0.015	mg/l	8021B	01/29/11	10
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	111.		% Rec.	8021B	01/29/11	10

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

Note:
 The reported analytical results relate only to the sample submitted.
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Reported: 02/03/11 09:37 Printed: 02/03/11 10:17
 L499517-01 (PH) - 6.4@17.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L499517-01	WG519439	SAMP	pH	R1558389	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
pH	4.20	su			WG519439	02/01/11 09:52
Chloride	< 1	mg/l			WG519527	01/31/11 10:43
Benzene	< .0005	mg/l			WG519447	01/29/11 21:26
Ethylbenzene	< .0005	mg/l			WG519447	01/29/11 21:26
Toluene	< .0005	mg/l			WG519447	01/29/11 21:26
Total Xylene	< .0015	mg/l			WG519447	01/29/11 21:26
a,a,a-Trifluorotoluene(PID)		% Rec.	110.1	55-122	WG519447	01/29/11 21:26
Specific Conductance	1.10	umhos/cm			WG519793	02/02/11 14:52

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
pH	su	8.30	8.10	2.44*	1	L499230-01	WG519439
pH	su	6.40	6.40	0	1	L499517-01	WG519439
Chloride	mg/l	45.0	44.0	1.58	20	L499553-01	WG519527
Specific Conductance	umhos/cm	380.	380.	0.263	20	L499744-01	WG519793

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
pH	su	6.3	6.20	98.4	97.98-102.02	WG519439
Chloride	mg/l	40	40.0	100.	90-110	WG519527
Benzene	mg/l	.05	0.0523	105.	79-114	WG519447
Ethylbenzene	mg/l	.05	0.0532	106.	80-116	WG519447
Toluene	mg/l	.05	0.0526	105.	79-112	WG519447
Total Xylene	mg/l	.15	0.156	104.	84-118	WG519447
a,a,a-Trifluorotoluene(PID)				110.0	55-122	WG519447
Specific Conductance	umhos/cm	561	570.	102.	85-115	WG519793

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
pH	su	6.20	6.20	98.0	97.98-102.02	0	20	WG519439
Chloride	mg/l	40.0	40.0	100.	90-110	0	20	WG519527
Benzene	mg/l	0.0527	0.0523	105.	79-114	0.720	20	WG519447
Ethylbenzene	mg/l	0.0544	0.0532	109.	80-116	2.16	20	WG519447
Toluene	mg/l	0.0527	0.0526	105.	79-112	0.180	20	WG519447
Total Xylene	mg/l	0.159	0.156	106.	84-118	2.19	20	WG519447
a,a,a-Trifluorotoluene(PID)				109.0	55-122			WG519447

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

Aztec, NM 87410

Quality Assurance Report
Level II

L499517

12065 Lebanon Rd.
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

February 03, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Specific Conductance	umhos/	570.	570.	102.	85-115	0	20	WG519793

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0511	0.00160	.05	99.0	35-147	L499524-05	WG519447
Ethylbenzene	mg/l	0.0515	0.00160	.05	99.8	39-141	L499524-05	WG519447
Toluene	mg/l	0.0503	0	.05	101.	35-148	L499524-05	WG519447
Total Xylene	mg/l	0.149	0.00360	.15	96.8	33-151	L499524-05	WG519447
a,a,a-Trifluorotoluene (PID)					109.4	55-122		WG519447

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0530	0.0511	103.	35-147	3.60	20	L499524-05	WG519447
Ethylbenzene	mg/l	0.0540	0.0515	105.	39-141	4.79	20	L499524-05	WG519447
Toluene	mg/l	0.0524	0.0503	105.	35-148	4.13	20	L499524-05	WG519447
Total Xylene	mg/l	0.157	0.149	102.	33-151	5.37	20	L499524-05	WG519447
a,a,a-Trifluorotoluene (PID)				108.2	55-122				WG519447

Batch number / Run number / Sample number cross reference

WG519439: R1558389: L499517-01
WG519527: R1558549: L499517-01
WG519447: R1558830: L499517-01
WG519793: R1561029: L499517-01

* * 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.'



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February 03, 2011

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

Report Summary

Wednesday March 02, 2011

Report Number: L503820

Samples Received: 03/01/11

Client Project:

Description: Federal 18 No. 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

March 02, 2011

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

Date Received : March 01, 2011
 Description : Federal 18 No. 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 02/28/11 13:25

ESC Sample # : L503820-01

Site ID : FEDERAL 18 NO. 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	550	10.	mg/l	9056	03/01/11	10
pH	6.7		su	9040C	03/02/11	1
Specific Conductance	4000		umhos/cm	9050A	03/02/11	1
Dissolved Solids	3400	10.	mg/l	2540C	03/02/11	1
Benzene	0.042	0.00050	mg/l	8021B	03/01/11	1
Toluene	0.060	0.00050	mg/l	8021B	03/01/11	1
Ethylbenzene	0.0061	0.00050	mg/l	8021B	03/01/11	1
Total Xylene	0.020	0.0015	mg/l	8021B	03/01/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	97.9		% Rec.	8021B	03/01/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 03/02/11 13:28 Printed: 03/02/11 13:45
 L503820-01 (PH) - 6.7@18.0c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L503820-01	WG523798	SAMP	pH	R1594689	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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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March 02, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG523753	03/01/11 13:04
Ethylbenzene	< .0005	mg/l			WG523753	03/01/11 13:04
Toluene	< .005	mg/l			WG523753	03/01/11 13:04
Total Xylene	< .0015	mg/l			WG523753	03/01/11 13:04
a,a,a-Trifluorotoluene (PID)		% Rec.	97.82	55-122	WG523753	03/01/11 13:04
Chloride	< 1	mg/l			WG523733	03/01/11 07:50
Specific Conductance	1.20	umhos/cm			WG523866	03/02/11 11:56
pH	7.70	su			WG523798	03/02/11 09:41
Dissolved Solids	< 10	mg/l			WG523769	03/02/11 12:59

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	24.0	24.0	1.24	20	L503617-01	WG523733
Chloride	mg/l	200.	200.	2.47	20	L503638-22	WG523733
Specific Conductance	umhos/cm	330.	330.	0.608	20	L503969-01	WG523866
pH	su	6.50	6.50	0	1	L503230-01	WG523798
pH	su	9.50	9.50	0	1	L503890-01	WG523798
Dissolved Solids	mg/l	8900	9120	2.55	5	L503823-01	WG523769

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0470	94.0	79-114	WG523753
Ethylbenzene	mg/l	.05	0.0479	95.8	80-116	WG523753
Toluene	mg/l	.05	0.0488	97.6	79-112	WG523753
Total Xylene	mg/l	.15	0.146	97.1	84-118	WG523753
a,a,a-Trifluorotoluene (PID)				94.41	55-122	WG523753
Chloride	mg/l	40	40.2	101.	90-110	WG523733
Specific Conductance	umhos/cm	561	560.	99.8	85-115	WG523866
pH	su	6.3	6.30	100.	97.98-102.02	WG523798
Dissolved Solids	mg/l	8800	8780	99.7	85-115	WG523769

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0474	0.0470	95.0	79-114	0.890	20	WG523753

* 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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March 02, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/l	0.0485	0.0479	97.0	80-116	1.30	20	WG523753
Toluene	mg/l	0.0491	0.0488	98.0	79-112	0.600	20	WG523753
Total Xylene	mg/l	0.147	0.146	98.0	84-118	1.03	20	WG523753
a,a,a-Trifluorotoluene (PID)				106.7	55-122			WG523753
Chloride	mg/l	40.2	40.2	100.	90-110	0	20	WG523733
Specific Conductance	umhos/	560.	560.	100.	85-115	0	20	WG523866
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG523798
Dissolved Solids	mg/l	8700	8780	99.0	85-115	0.824	20	WG523769

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0625	0.0170	.05	91.1	35-147	L503691-01	WG523753
Ethylbenzene	mg/l	0.0598	0.0130	.05	93.7	39-141	L503691-01	WG523753
Toluene	mg/l	0.0454	0	.05	90.9	35-148	L503691-01	WG523753
Total Xylene	mg/l	0.143	0	.15	95.3	33-151	L503691-01	WG523753
a,a,a-Trifluorotoluene (PID)					101.4	55-122		WG523753
Chloride	mg/l	84.6	36.0	50	97.2	80-120	L503620-01	WG523733

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0631	0.0625	92.1	35-147	0.810	20	L503691-01	WG523753
Ethylbenzene	mg/l	0.0608	0.0598	95.6	39-141	1.55	20	L503691-01	WG523753
Toluene	mg/l	0.0467	0.0454	93.4	35-148	2.76	20	L503691-01	WG523753
Total Xylene	mg/l	0.147	0.143	98.0	33-151	2.78	20	L503691-01	WG523753
a,a,a-Trifluorotoluene (PID)				101.1	55-122				WG523753
Chloride	mg/l	83.4	84.6	94.8	80-120	1.43	20	L503620-01	WG523733

Batch number /Run number / Sample number cross reference

WG523753: R1593509: L503820-01
 WG523733: R1593869: L503820-01
 WG523866: R1594630: L503820-01
 WG523798: R1594689: L503820-01
 WG523769: R1594749: L503820-01

* * 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.'



L.A.B S.C.I.E.N.C.E.S

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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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Est. 1970

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

Report Summary

Thursday April 07, 2011

Report Number: L509262

Samples Received: 04/02/11

Client Project:

Description: Federal 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

April 07, 2011

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

Date Received : April 02, 2011
 Description : Federal 18 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 04/01/11 12:30

ESC Sample # : L509262-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	260	5.0	mg/l	9056	04/04/11	5
pH	6.8		su	9040C	04/07/11	1
Specific Conductance	3100	1.8	umhos/cm	9050A	04/06/11	1
Dissolved Solids	2700	10.	mg/l	2540C	04/06/11	1
Benzene	0.023	0.00050	mg/l	8021B	04/03/11	1
Toluene	0.027	0.00050	mg/l	8021B	04/03/11	1
Ethylbenzene	0.0018	0.00050	mg/l	8021B	04/03/11	1
Total Xylene	0.0068	0.0015	mg/l	8021B	04/03/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021B	04/03/11	1

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

Note:
 The reported analytical results relate only to the sample submitted.
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Reported: 04/07/11 13:11 Printed: 04/07/11 13:24
 L509262-01 (PH) - 6.8@18.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L509262-01	WG529807	SAMP	pH	R1640732	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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)."

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- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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April 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG529217	04/03/11 01:45
Ethylbenzene	< .0005	mg/l			WG529217	04/03/11 01:45
Toluene	< .005	mg/l			WG529217	04/03/11 01:45
Total Xylene	< .0015	mg/l			WG529217	04/03/11 01:45
a,a,a-Trifluorotoluene (PID)		% Rec.	104.0	55-122	WG529217	04/03/11 01:45
Chloride	< 1	mg/l			WG529309	04/04/11 10:22
Dissolved Solids	< 10	mg/l			WG529211	04/06/11 11:01
Specific Conductance	< 1.8	umhos/cm			WG529535	04/06/11 14:12
pH	4.70	su			WG529807	04/07/11 11:16

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	320.	320.	0.313	20	L509005-01	WG529309
Chloride	mg/l	210.	210.	0.948	20	L509034-02	WG529309
Dissolved Solids	mg/l	420.	421.	0.946	5	L509099-23	WG529211
Specific Conductance	umhos/cm	310.	310.	0.322	20	L509033-06	WG529535
pH	su	6.60	6.60	0	1	L508799-01	WG529807
pH	su	1.30	1.30	0	1	L509609-09	WG529807

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0471	94.3	79-114	WG529217
Ethylbenzene	mg/l	.05	0.0473	94.5	80-116	WG529217
Toluene	mg/l	.05	0.0476	95.3	79-112	WG529217
Total Xylene	mg/l	.15	0.147	98.0	84-118	WG529217
a,a,a-Trifluorotoluene (PID)				102.9	55-122	WG529217
Chloride	mg/l	40	40.8	102.	90-110	WG529309
Dissolved Solids	mg/l	8800	8860	101.	85-115	WG529211
Specific Conductance	umhos/cm	561	550.	98.0	85-115	WG529535
pH	su	6.3	6.30	100.	97.98-102.02	WG529807

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0494	0.0471	99.0	79-114	4.69	20	WG529217

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

Aztec, NM 87410

Quality Assurance Report
Level II

L509262

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

April 07, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/l	0.0491	0.0473	98.0	80-116	3.85	20	WG529217
Toluene	mg/l	0.0492	0.0476	98.0	79-112	3.15	20	WG529217
Total Xylene	mg/l	0.153	0.147	102.	84-118	3.68	20	WG529217
a,a,a-Trifluorotoluene (PID)				102.2	55-122			WG529217
Chloride	mg/l	40.8	40.8	102.	90-110	0	20	WG529309
Dissolved Solids	mg/l	8880	8860	101.	85-115	0.271	20	WG529211
Specific Conductance	umhos/	550.	550.	98.0	85-115	0	20	WG529535
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG529807

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0508	0.00750	.05	86.7	35-147	L509313-02	WG529217
Ethylbenzene	mg/l	0.0480	0.00290	.05	90.2	39-141	L509313-02	WG529217
Toluene	mg/l	0.0651	0.0250	.05	80.2	35-148	L509313-02	WG529217
Total Xylene	mg/l	0.188	0.0580	.15	86.9	33-151	L509313-02	WG529217
a,a,a-Trifluorotoluene (PID)					101.8	55-122		WG529217

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0562	0.0508	97.5	35-147	10.1	20	L509313-02	WG529217
Ethylbenzene	mg/l	0.0519	0.0480	98.0	39-141	7.75	20	L509313-02	WG529217
Toluene	mg/l	0.0707	0.0651	91.4	35-148	8.26	20	L509313-02	WG529217
Total Xylene	mg/l	0.203	0.188	96.6	33-151	7.44	20	L509313-02	WG529217
a,a,a-Trifluorotoluene (PID)				102.9	55-122				WG529217

Batch number / Run number / Sample number cross reference

WG529217: R1635809: L509262-01
 WG529309: R1636590: L509262-01
 WG529211: R1638693: L509262-01
 WG529535: R1639330: L509262-01
 WG529807: R1640732: L509262-01

* * 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.'



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Est. 1970

April 07, 2011

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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			Alternate Billing XTORNM031810S			Analysis/Container/Preservative BTEX (EOR) 10-40mc / Cool + HCL EC, PH, TDS, Chlorides / 1-500mc / Cool			Chain of Custody Page ___ of ___ D160		
Project Description: Federal 18 # 1T			City/State Collected: Farmington, NM						Prepared by: ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859		
PHONE: 505-333-3701		Client Project No.		Lab Project #							
FAX:		-		-							
Collected by: James McDaniel		Site/Facility ID# Federal 18 # 1T		P.O.#					CoCode (lab use only)		
Collected by (signature) 		<input type="checkbox"/> Rush? (Lab MUST be Notified)		Date Results Needed		No			XTORNM		
Packed on Ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>		Next Day.....100%		Email? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		of			Template/Prelogin		
		Two Day.....50%		FAX? No <input type="checkbox"/> Yes <input type="checkbox"/>					Shipped Via: Fed Ex		
		<input checked="" type="checkbox"/> Three Day.....25%							Remarks/contaminant		
Sample ID		Comp/Grab	Matrix	Depth	Date	Time	Cnts	Sample # (lab only)			
Water Sample		Grab	GW	-	4/1/11	12:30	3	L S0926201			

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____

Remarks: 87196031 5508 Flow _____ Other _____

Relinquisher by: (Signature) 	Date: 4/1/11	Time: 1400	Received by: (Signature) 	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: 4-2-11	Time: 9:00
				pH Checked:	NCF:

OK



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

Report Summary

Wednesday May 04, 2011

Report Number: L513658

Samples Received: 04/30/11

Client Project:

Description: Federal 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

May 04, 2011

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

Date Received : April 30, 2011
 Description : Federal 18 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 04/29/11 10:15

ESC Sample # : L513658-01
 Site ID : FEDERAL 18 1 T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	140	2.0	mg/l	9056	04/30/11	2
pH	6.9		su	9040C	05/04/11	1
Specific Conductance	2900	1.8	umhos/cm	9050A	05/04/11	1
Dissolved Solids	2600	10.	mg/l	2540C	05/04/11	1
Benzene	0.029	0.00050	mg/l	8021B	04/30/11	1
Toluene	0.028	0.0050	mg/l	8021B	04/30/11	1
Ethylbenzene	0.0024	0.00050	mg/l	8021B	04/30/11	1
Total Xylene	0.0073	0.0015	mg/l	8021B	04/30/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021B	04/30/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 05/04/11 16:02 Printed: 05/04/11 16:35
 L513658-01 (PH) - 6.9@19.1c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L513658-01	WG533921	SAMP	pH	R1673710	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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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May 04, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG533565	04/30/11 22:38
Ethylbenzene	< .0005	mg/l			WG533565	04/30/11 22:38
Toluene	< .0005	mg/l			WG533565	04/30/11 22:38
Total Xylene	< .0015	mg/l			WG533565	04/30/11 22:38
a, a, a-Trifluorotoluene (PID)		% Rec.	106.0	55-122	WG533565	04/30/11 22:38
Chloride	< 1	mg/l			WG533515	04/30/11 06:00
Dissolved Solids	< 10	mg/l			WG533572	05/04/11 12:59
pH	4.60	su			WG533921	05/04/11 14:07
Specific Conductance	< 1.8	umhos/cm			WG533938	05/04/11 15:36

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	% Rec				
Dissolved Solids	mg/l	2600	2610	0.0766	5	L513658-01	WG533572	
pH	su	8.20	8.20	0	1	L513426-02	WG533921	
pH	su	1.70	1.70	0	1	L514131-04	WG533921	
Specific Conductance	umhos/cm	940.	930.	0.643	20	L513471-01	WG533938	
Specific Conductance	umhos/cm	350.	350.	1.14	20	L514048-01	WG533938	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0501	100.	79-114	WG533565
Ethylbenzene	mg/l	.05	0.0486	97.2	80-116	WG533565
Toluene	mg/l	.05	0.0485	96.9	79-112	WG533565
Total Xylene	mg/l	.15	0.149	99.0	84-118	WG533565
a, a, a-Trifluorotoluene (PID)				104.8	55-122	WG533565
Chloride	mg/l	40	40.6	102.	90-110	WG533515
Dissolved Solids	mg/l	8800	8720	99.0	85-115	WG533572
pH	su	6.3	6.30	100.	97.98-102.02	WG533921
Specific Conductance	umhos/cm	556	560.	101.	85-115	WG533938

Analyte	Units	Result	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
			Ref	%Rec				
Benzene	mg/l	0.0514	0.0501	103.	79-114	2.44	20	WG533565
Ethylbenzene	mg/l	0.0493	0.0486	98.0	80-116	1.30	20	WG533565
Toluene	mg/l	0.0492	0.0485	98.0	79-112	1.44	20	WG533565
Total Xylene	mg/l	0.148	0.149	99.0	84-118	0.390	20	WG533565

* 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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May 04, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
a, a, a-Trifluorotoluene(PID) Chloride	mg/l	40.6	40.6	103.5 102.	55-122 90-110	0	20	WG533515
Dissolved Solids	mg/l	8780	8720	100.	85-115	0.732	20	WG533572
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG533921
Specific Conductance	umhos/	560.	560.	101.	85-115	0	20	WG533938

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Benzene	mg/l	0.0503	0	.05	101.	35-147	L513698-01	WG533565
Ethylbenzene	mg/l	0.0485	0	.05	97.1	39-141	L513698-01	WG533565
Toluene	mg/l	0.0484	0	.05	96.8	35-148	L513698-01	WG533565
Total Xylene	mg/l	0.148	0	.15	98.5	33-151	L513698-01	WG533565
a, a, a-Trifluorotoluene(PID)					105.8	55-122		WG533565
Chloride	mg/l	68.0	18.0	50	100.	80-120	L513645-02	WG533515

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/l	0.0496	0.0503	99.2	35-147	1.46	20	L513698-01	WG533565
Ethylbenzene	mg/l	0.0477	0.0485	95.4	39-141	1.70	20	L513698-01	WG533565
Toluene	mg/l	0.0471	0.0484	94.2	35-148	2.66	20	L513698-01	WG533565
Total Xylene	mg/l	0.144	0.148	95.8	33-151	2.82	20	L513698-01	WG533565
a, a, a-Trifluorotoluene(PID)				105.3	55-122				WG533565
Chloride	mg/l	66.9	68.0	97.8	80-120	1.63	20	L513645-02	WG533515

Batch number / Run number / Sample number cross reference

WG533565: R1669269: L513658-01
 WG533515: R1671909: L513658-01
 WG533572: R1673329: L513658-01
 WG533921: R1673710: L513658-01
 WG533938: R1673813: L513658-01

* * 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.'



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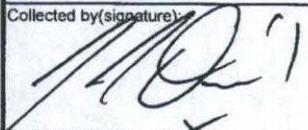
May 04, 2011

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.

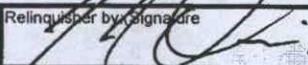
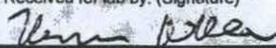
Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". 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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			Alternate Billing XTORNM031810S			Analysis/Container/Preservative			E001	Chain of Custody Page ___ of ___
Project Description: Federal 18 #17			City/State Collected: Farmington, NM			BTEX (8021) / 2-40ml / Cool + HCl EC, PH, TDS, Chlorides / 1-500ml / Cool			Prepared by:	
PHONE: 505-333-3701		Client Project No.		Lab Project #					 ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
Collected by: James McDaniel		Site/Facility ID# Federal 18 #17		P.O.#					CoCode (lab use only)	
Collected by (signature): 		<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified) ___ Next Day.....100% ___ Two Day.....50% <input checked="" type="checkbox"/> Three Day.....25%		Date Results Needed					XTORNM Template/Prelogin Shipped Via: Fed Ex	
Packed on Ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>		Email? ___ No <input checked="" type="checkbox"/> Yes		FAX? ___ No ___ Yes		No of		Remarks/contaminant		Sample # (lab only)
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs				
Water Sample	Grab	GW	-	4/29/11	1015	3			513658-01	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____ pH _____ Temp _____

Remarks: _____ Flow _____ Other _____

Relinquisher by (Signature): 	Date: 4/29/11	Time: 10:30	Received by: (Signature): 	Samples returned via: FedEx_X_UPS_Other_	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature): 	Date: 4/30/11	Time: 0900
			pH Checked:		NCF: 



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

Report Summary

Thursday June 02, 2011

Report Number: L518471

Samples Received: 06/01/11

Client Project:

Description: FEDERAL 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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 Est. 1970

REPORT OF ANALYSIS

June 02, 2011

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

Date Received : June 01, 2011
 Description : FEDERAL 18 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 05/31/11 13:10

ESC Sample # : L518471-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	89.	2.0	mg/l	9056	06/01/11	2
pH	6.7		su	9040C	06/02/11	1
Specific Conductance	2800	1.8	umhos/cm	9050A	06/02/11	1
Dissolved Solids	2500	10.	mg/l	2540C	06/02/11	1
Benzene	0.014	0.00050	mg/l	8021B	06/01/11	1
Toluene	0.019	0.0050	mg/l	8021B	06/01/11	1
Ethylbenzene	0.0014	0.00050	mg/l	8021B	06/01/11	1
Total Xylene	0.0049	0.0015	mg/l	8021B	06/01/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	106.		% Rec.	8021B	06/01/11	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: 06/02/11 16:38 Printed: 06/02/11 16:45
 L518471-01 (PH) - 6.7@19.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L518471-01	WG538372	SAMP	pH	R1707873	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG538279	06/01/11 15:07
Ethylbenzene	< .0005	mg/l			WG538279	06/01/11 15:07
Toluene	< .005	mg/l			WG538279	06/01/11 15:07
Total Xylene	< .0015	mg/l			WG538279	06/01/11 15:07
a, a, a-Trifluorotoluene (PID)		% Rec.	110.1	55-122	WG538279	06/01/11 15:07
pH	4.30	su			WG538372	06/02/11 09:40
Dissolved Solids	< 10	mg/l			WG538352	06/02/11 12:36
Specific Conductance	1.90	umhos/cm			WG538413	06/02/11 12:23
Chloride	< 1	mg/l			WG538282	06/01/11 08:39

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
pH	su	6.60	6.60	0	1	L517674-01	WG538372
pH	su	6.70	6.70	0	1	L518471-01	WG538372
Dissolved Solids	mg/l	800.	780.	2.91	5	L518093-05	WG538352
Specific Conductance	umhos/cm	350.	360.	1.68	20	L518406-01	WG538413

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0537	107.	79-114	WG538279
Ethylbenzene	mg/l	.05	0.0565	113.	80-116	WG538279
Toluene	mg/l	.05	0.0544	109.	79-112	WG538279
Total Xylene	mg/l	.15	0.169	113.	84-118	WG538279
a, a, a-Trifluorotoluene (PID)				106.6	55-122	WG538279
pH	su	6.3	6.30	100.	97.98-102.02	WG538372
Dissolved Solids	mg/l	8800	8680	98.6	85-115	WG538352
Specific Conductance	umhos/cm	556	560.	101.	85-115	WG538413
Chloride	mg/l	40	40.5	101.	90-110	WG538282

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0527	0.0537	105.	79-114	1.90	20	WG538279
Ethylbenzene	mg/l	0.0558	0.0565	112.	80-116	1.15	20	WG538279
Toluene	mg/l	0.0544	0.0544	109.	79-112	0.0600	20	WG538279
Total Xylene	mg/l	0.170	0.169	113.	84-118	0.320	20	WG538279
a, a, a-Trifluorotoluene (PID)				106.7	55-122			WG538279

* 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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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG538372
Dissolved Solids	mg/l	8710	8680	99.0	85-115	0.322	20	WG538352
Specific Conductance	umhos/	560.	560.	101.	85-115	0	20	WG538413
Chloride	mg/l	40.3	40.5	101.	90-110	0.495	20	WG538282

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0710	0.0140	.05	114.	35-147	L518471-01	WG538279
Ethylbenzene	mg/l	0.0594	0.00140	.05	116.	39-141	L518471-01	WG538279
Toluene	mg/l	0.0740	0.0190	.05	110.	35-148	L518471-01	WG538279
Total Xylene	mg/l	0.185	0.00490	.15	120.	33-151	L518471-01	WG538279
a,a,a-Trifluorotoluene (PID)					105.2	55-122		WG538279

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0732	0.0710	118.	35-147	3.07	20	L518471-01	WG538279
Ethylbenzene	mg/l	0.0604	0.0594	118.	39-141	1.53	20	L518471-01	WG538279
Toluene	mg/l	0.0752	0.0740	112.	35-148	1.55	20	L518471-01	WG538279
Total Xylene	mg/l	0.182	0.185	118.	33-151	1.35	20	L518471-01	WG538279
a,a,a-Trifluorotoluene (PID)				105.7	55-122				WG538279

Batch number / Run number / Sample number cross reference

WG538279: R1707229: L518471-01
 WG538372: R1707873: L518471-01
 WG538352: R1708009: L518471-01
 WG538413: R1708089: L518471-01
 WG538282: R1708609: L518471-01

* * 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.'



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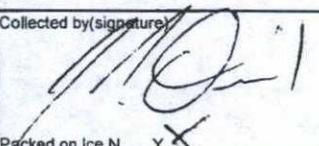
June 02, 2011

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.

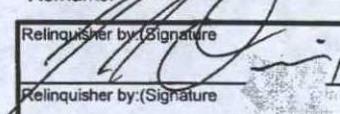
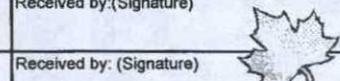
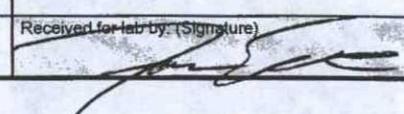
Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". 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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			Alternate Billing XTORNM031810S			Analysis/Container/Preservative			Chain of Custody Page ___ of ___		
Project Description: Federal 18 #17			City/State Collected: Farmington, NM			BTEX (002) / 1-4oz / Cool + HCl EC, PH, TDS, chlorides / 1-500mc / Cool			Prepared by:  ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859		
PHONE: 505-333-3701	Client Project No.	Lab Project #	Report to: James McDaniel						CoCode (lab use only)		
FAX:			E-mail to: James_McDaniel@xtoenergy.com						Template/Prelogin D141		
Collected by: James McDaniel	Site/Facility ID# Federal 18 #17	P.O.#	Date Results Needed						Shipped Via: Fed Ex		
Collected by (signature) 	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)		Date Results Needed		No	Remarks/contaminant					
Packed on ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Next Day.....100%		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		of	Sample # (lab only)					
	<input type="checkbox"/> Two Day.....50%		FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Cntrs						
	<input type="checkbox"/> Three Day.....25%										
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs					
Water sample	Grab	GW	-	5/31/11	13¹⁰	3	651847101				

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____

Remarks:  4341 9818 2861 Flow _____ Other _____

Relinquisher by (Signature) 	Date: 5/31/11	Time: 15:17	Received by: (Signature) 	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS ___ Other ___	Condition (lab use only) OK
Relinquisher by (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6	Bottles Received: 1-D, 2-V
Relinquisher by (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: 6-1-11	Time: 0900
				pH Checked:	NCF: COUSE



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

Report Summary

Friday June 17, 2011

Report Number: L520947

Samples Received: 06/15/11

Client Project:

Description: Federal 18 #1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

June 17, 2011

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

Date Received : June 15, 2011
 Description : Federal 18 #1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 06/14/11 10:30

ESC Sample # : L520947-01
 Site ID :
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	73.	1.0	mg/l	9056	06/17/11	1
pH	6.7		su	9040C	06/17/11	1
Specific Conductance	2700	1.8	umhos/cm	9050A	06/16/11	1
Dissolved Solids	2500	10.	mg/l	2540C	06/17/11	1
Benzene	0.055	0.00050	mg/l	8021B	06/17/11	1
Toluene	0.081	0.0050	mg/l	8021B	06/17/11	1
Ethylbenzene	0.0028	0.00050	mg/l	8021B	06/17/11	1
Total Xylene	0.015	0.0015	mg/l	8021B	06/17/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	99.2		% Rec.	8021B	06/17/11	1

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

The reported analytical results relate only to the sample submitted.
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Reported: 06/17/11 17:11 Printed: 06/17/11 17:11
 L520947-01 (PH) - 6.7@14.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L520947-01	WG540925	SAMP	pH	R1727651	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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

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- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography 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.

Summary of Remarks For Samples Printed
06/17/11 at 17:11:45

TSR Signing Reports: 288
R3 - Rush: Two Day

drywt

Sample: L520947-01 Account: XTORNM Received: 06/15/11 09:00 Due Date: 06/17/11 00:00 RPT Date: 06/17/11 17:11



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June 17, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG541000	06/17/11 02:08
Ethylbenzene	< .0005	mg/l			WG541000	06/17/11 02:08
Toluene	< .005	mg/l			WG541000	06/17/11 02:08
Total Xylene	< .0015	mg/l			WG541000	06/17/11 02:08
a, a, a-Trifluorotoluene (PID)		% Rec.	101.0	55-122	WG541000	06/17/11 02:08
Chloride	< 1	mg/l			WG540875	06/16/11 07:14
Dissolved Solids	< 10	mg/l			WG540697	06/17/11 12:37
pH	5.10	su			WG540925	06/17/11 14:28
Specific Conductance	2.20	umhos/cm			WG540817	06/16/11 22:30

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	9.60	9.60	0.208	20	L520839-02	WG540875
Chloride	mg/l	5.20	5.20	0.579	20	L520839-04	WG540875
Dissolved Solids	mg/l	2500	2500	1.59	5	L520947-01	WG540697
pH	su	7.30	7.30	0	1	L520647-01	WG540925
pH	su	8.80	8.70	1.14*	1	L521098-02	WG540925
Specific Conductance	umhos/cm	54000	54000	0	20	L520695-01	WG540817

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0486	97.2	79-114	WG541000
Ethylbenzene	mg/l	.05	0.0482	96.4	80-116	WG541000
Toluene	mg/l	.05	0.0481	96.2	79-112	WG541000
Total Xylene	mg/l	.15	0.143	95.3	84-118	WG541000
a, a, a-Trifluorotoluene (PID)				99.46	55-122	WG541000
Chloride	mg/l	40	39.4	98.5	90-110	WG540875
Dissolved Solids	mg/l	8800	8610	97.9	85-115	WG540697
pH	su	6.3	6.30	100.	97.98-102.02	WG540925
Specific Conductance	umhos/cm	445	440.	98.9	85-115	WG540817

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	% Rec				
Benzene	mg/l	0.0499	0.0486	100.	79-114	2.76	20	WG541000

* 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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June 17, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/l	0.0497	0.0482	99.0	80-116	3.13	20	WG541000
Toluene	mg/l	0.0489	0.0481	98.0	79-112	1.70	20	WG541000
Total Xylene	mg/l	0.147	0.143	98.0	84-118	3.09	20	WG541000
a, a, a-Trifluorotoluene (PID)				99.67	55-122			WG541000
Chloride	mg/l	39.4	39.4	98.0	90-110	0	20	WG540875
Dissolved Solids	mg/l	8660	8610	98.0	85-115	0.602	20	WG540697
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG540925

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0492	0	.05	98.3	35-147	L521370-09	WG541000
Ethylbenzene	mg/l	0.0495	0	.05	99.0	39-141	L521370-09	WG541000
Toluene	mg/l	0.0483	0	.05	96.7	35-148	L521370-09	WG541000
Total Xylene	mg/l	0.147	0	.15	98.1	33-151	L521370-09	WG541000
a, a, a-Trifluorotoluene (PID)					98.67	55-122		WG541000
Chloride	mg/l	60.3	11.0	50	98.6	80-120	L520728-02	WG540875

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0480	0.0492	96.0	35-147	2.43	20	L521370-09	WG541000
Ethylbenzene	mg/l	0.0480	0.0495	95.9	39-141	3.11	20	L521370-09	WG541000
Toluene	mg/l	0.0472	0.0483	94.3	35-148	2.48	20	L521370-09	WG541000
Total Xylene	mg/l	0.143	0.147	95.1	33-151	3.07	20	L521370-09	WG541000
a, a, a-Trifluorotoluene (PID)				99.05	55-122				WG541000
Chloride	mg/l	60.8	60.3	99.6	80-120	0.826	20	L520728-02	WG540875

Batch number / Run number / Sample number cross reference

WG541000: R1726629: L520947-01
WG540875: R1727151: L520947-01
WG540697: R1727269: L520947-01
WG540925: R1727651: L520947-01
WG540817: R1728011: L520947-01

* * 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.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L520947

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

June 17, 2011

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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S		Analysis/Container/Preservative				Chain of Custody Page ___ of ___	
Report to: James McDaniel		E-mail to: james_mcdaniel@xtoenergy.com		2-40mL/Cool + HCL 1-500mL/Cool X BTEX (0021) / 2-40mL/Cool + HCL X EC, PH, TDS, Chlorides / 1-500mL/Cool				Prepared by: A077	

ENVIRONMENTAL Science corp
 12065 Lebanon Road
 Mt. Juliet TN 37122
 Phone (615)758-5858
 Phone (800) 767-5859
 FAX (615)758-5859

Project Description: Federal 18 #1T		City/State Collected: Farmington, NM	
PHONE: 505-333-3701	Client Project No. -	Lab Project # -	
FAX: -	Site/Facility ID# -	P.O.# -	
Collected by: James McDaniel	Site/Facility ID#	P.O.#	
Collected by (signature):	Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day.....100% <input checked="" type="checkbox"/> TWO Day.....50% <input type="checkbox"/> Three Day.....25%	Date Results Needed	No <input type="checkbox"/> of <input type="checkbox"/>
Packed on Ice N Y	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	

CoCode (lab use only)
XTORNM
 Template/Prelogin
 Shipped Via: Fed Ex

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	Remarks/contaminant	Sample # (lab only)
Water Sample	Grab	GW	-	6/14/11	10³⁰	AS	L520947	-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by: (Signature)	Date: 6/14/11	Time: 1445	Received by: (Signature)	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition: (CB)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6"	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/15/11	Time: 0916
				pH Checked:	NCF: COLSL



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

Report Summary

Thursday July 07, 2011

Report Number: L523955

Samples Received: 07/01/11

Client Project:

Description: Federal 18 #1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

July 07, 2011

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

Date Received : July 01, 2011
 Description : Federal 18 #1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 06/30/11 13:45

ESC Sample # : L523955-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	61.	1.0	mg/l	9056	07/01/11	1
pH	6.9		su	9040C	07/07/11	1
Specific Conductance	2700	1.8	umhos/cm	9050A	07/04/11	1
Dissolved Solids	2500	10.	mg/l	2540C	07/07/11	1
Benzene	0.052	0.00050	mg/l	8021B	07/01/11	1
Toluene	0.067	0.0050	mg/l	8021B	07/01/11	1
Ethylbenzene	0.0026	0.00050	mg/l	8021B	07/01/11	1
Total Xylene	0.012	0.0015	mg/l	8021B	07/01/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	105.		% Rec.	8021B	07/01/11	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: 07/07/11 13:56 Printed: 07/07/11 14:25
 L523955-01 (PH) - 6.9@17.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L523955-01	WG544372	SAMP	pH	R1751672	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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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 James McDaniel
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Quality Assurance Report
 Level II

L523955

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July 07, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chloride	< 1	mg/l			WG543729	07/01/11 07:42
Benzene	< .0005	mg/l			WG543749	07/01/11 15:22
Ethylbenzene	< .0005	mg/l			WG543749	07/01/11 15:22
Toluene	< .005	mg/l			WG543749	07/01/11 15:22
Total Xylene	< .0015	mg/l			WG543749	07/01/11 15:22
a,a,a-Trifluorotoluene (PID)		% Rec.	104.7	55-122	WG543749	07/01/11 15:22
Specific Conductance	3.20	umhos/cm			WG543916	07/04/11 08:44
pH	4.80	su			WG544372	07/07/11 12:06
Dissolved Solids	< 10	mg/l			WG543854	07/07/11 13:47

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	28.0	27.0	1.83	20	L523662-04	WG543729
Specific Conductance	umhos/cm	530.	530.	0	20	L523270-04	WG543916
Specific Conductance	umhos/cm	170.	170.	0	20	L523734-02	WG543916
pH	su	6.90	6.90	0	1	L523955-01	WG544372
pH	su	7.80	7.80	0	1	L524328-01	WG544372
Dissolved Solids	mg/l	410.	402.	1.24	5	L524052-29	WG543854

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chloride	mg/l	40	40.0	100.	90-110	WG543729
Benzene	mg/l	.05	0.0535	107.	79-114	WG543749
Ethylbenzene	mg/l	.05	0.0549	110.	80-116	WG543749
Toluene	mg/l	.05	0.0541	108.	79-112	WG543749
Total Xylene	mg/l	.15	0.159	106.	84-118	WG543749
a,a,a-Trifluorotoluene (PID)				105.2	55-122	WG543749
Specific Conductance	umhos/cm	445	450.	101.	85-115	WG543916
pH	su	6.3	6.30	100.	97.98-102.02	WG544372
Dissolved Solids	mg/l	8800	8680	98.6	85-115	WG543854

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/l	40.0	40.0	100.	90-110	0	20	WG543729

* 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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July 07, 2011

Analyte	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
Benzene	mg/l	0.0551	0.0535	110.	79-114	2.99	20	WG543749
Ethylbenzene	mg/l	0.0577	0.0549	115.	80-116	4.91	20	WG543749
Toluene	mg/l	0.0551	0.0541	110.	79-112	1.79	20	WG543749
Total Xylene	mg/l	0.167	0.159	112.	84-118	5.10	20	WG543749
a, a, a-Trifluorotoluene (PID)				104.6	55-122			WG543749
Specific Conductance	umhos/	440.	450.	99.0	85-115	2.25	20	WG543916
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG544372
Dissolved Solids	mg/l	8760	8680	100.	85-115	0.872	20	WG543854

Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch	
		MS Res	Ref Res	TV				% Rec
Benzene	mg/l	0.0506	0	.05	101.	35-147	L523607-05	WG543749
Ethylbenzene	mg/l	0.0525	0	.05	105.	39-141	L523607-05	WG543749
Toluene	mg/l	0.0513	0	.05	102.	35-148	L523607-05	WG543749
Total Xylene	mg/l	0.154	0	.15	102.	33-151	L523607-05	WG543749
a, a, a-Trifluorotoluene (PID)					103.3	55-122		WG543749

Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch	
		MSD	Ref						%Rec
Benzene	mg/l	0.0493	0.0506	98.6	35-147	2.70	20	L523607-05	WG543749
Ethylbenzene	mg/l	0.0514	0.0525	103.	39-141	2.05	20	L523607-05	WG543749
Toluene	mg/l	0.0496	0.0513	99.3	35-148	3.22	20	L523607-05	WG543749
Total Xylene	mg/l	0.149	0.154	99.6	33-151	2.77	20	L523607-05	WG543749
a, a, a-Trifluorotoluene (PID)				105.3	55-122				WG543749

Batch number / Run number / Sample number cross reference

WG543729: R1748109: L523955-01
 WG543749: R1748550: L523955-01
 WG543916: R1749583: L523955-01
 WG544372: R1751672: L523955-01
 WG543854: R1751749: L523955-01

* * 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.'



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L523955

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Est. 1970

July 07, 2011

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.

Company Name/Address
XTO Energy, Inc.
382 County Road 3100
Aztec, NM 87410

Alternate Billing
 XTORN031810S
 Report to: James McDaniel
 E-mail to: james_mcdaniel@xtoenergy.com

Analysis/Container/Preservative
 2-40L Cool + HCl
 BTEX (800L) EC, PH, TDS, Chlorides / 1-500ml / CS

D141
 Chain of Custody Page ___ of ___
 Prepared by:
ENVIRONMENTAL Science corp
 12065 Lebanon Road
 Mt. Juliet TN 37122
 Phone (615)758-5858
 Phone (800) 767-5859
 FAX (615)758-5859

Project Description: **Federal 18 #1T**
 PHONE: 505-333-3701
 FAX:
 Collected by: **James McDaniel**
 Collected by (signature): *[Signature]*
 Packed on Ice N Y

City/State Collected: **Cañon Area**
 Lab Project #
 P.O.#
 Date Results Needed
 Email? No Yes
 FAX? No Yes

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs
Water Sample	Grab	SS	-	6/30/11	12:45	3

Remarks/contaminant	Sample # (lab only)
X BTEX (800L) EC, PH, TDS, Chlorides / 1-500ml / CS	6523 955-1

CoCode (lab use only)
XTORNM
 Template/Prelogin
 Shipped Via: Fed Ex

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____
 pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" 4355 9317 3520
 Flow _____ Other _____

Relinquisher by: (Signature) <i>[Signature]</i>	Date: 6/30/11	Time: 1:30	Received by: (Signature) <i>[Signature]</i>	Samples returned via: FedEx_X UPS_Other_	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.5	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Greg Dearman</i>	Date: 7-1-11	Time: 9:00



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

Report Summary

Thursday August 18, 2011

Report Number: L531225

Samples Received: 08/16/11

Client Project:

Description: Federal 18 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

August 18, 2011

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

Date Received : August 16, 2011
 Description : Federal 18 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 08/15/11 12:15

ESC Sample # : L531225-01
 Site ID : FEDERAL 18 1T
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	44.	1.0	mg/l	9056	08/16/11	1
pH	6.8		su	9040C	08/17/11	1
Specific Conductance	2600	1.8	umhos/cm	9050A	08/18/11	1
Dissolved Solids	2500	10.	mg/l	2540C	08/18/11	1
Benzene	0.021	0.00050	mg/l	8021B	08/16/11	1
Toluene	0.025	0.00050	mg/l	8021B	08/16/11	1
Ethylbenzene	0.0012	0.00050	mg/l	8021B	08/16/11	1
Total Xylene	0.0058	0.0015	mg/l	8021B	08/16/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	101.		% Rec.	8021B	08/16/11	1

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

The reported analytical results relate only to the sample submitted.
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Reported: 08/18/11 14:09 Printed: 08/18/11 14:10
 L531225-01 (PH) - 6.8@20.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L531225-01	WG550790	SAMP	pH	R1817171	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

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- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
08/18/11 at 14:10:11

TSR Signing Reports: 288
R3 - Rush: Two Day

drywt

Sample: L531225-01 Account: XTORNM Received: 08/16/11 09:00 Due Date: 08/19/11 00:00 RPT Date: 08/18/11 14:09



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L531225

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

August 18, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/l			WG550723	08/16/11 18:52
Ethylbenzene	< .0005	mg/l			WG550723	08/16/11 18:52
Toluene	< .005	mg/l			WG550723	08/16/11 18:52
Total Xylene	< .0015	mg/l			WG550723	08/16/11 18:52
a, a, a-Trifluorotoluene (PID)		% Rec.	101.5	55-122	WG550723	08/16/11 18:52
pH	4.90	su			WG550790	08/17/11 11:05
Chloride	< 1	mg/l			WG550678	08/16/11 08:30
Dissolved Solids	< 10	mg/l			WG550753	08/18/11 10:52
Specific Conductance	1.80	umhos/cm			WG551024	08/18/11 10:45

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
pH	su	7.00	7.00	0	1	L531136-01	WG550790
pH	su	8.50	8.50	0	1	L531300-01	WG550790
Chloride	mg/l	45.0	44.0	1.35	20	L531225-01	WG550678
Dissolved Solids	mg/l	2400	2350	2.81	5	L531174-01	WG550753
Specific Conductance	umhos/cm	640.	640.	0.778	20	L531217-01	WG551024
Specific Conductance	umhos/cm	5000	5000	1.01	20	L531563-04	WG551024

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Benzene	mg/l	.05	0.0461	92.2	79-114	WG550723
Ethylbenzene	mg/l	.05	0.0478	95.5	80-116	WG550723
Toluene	mg/l	.05	0.0480	96.1	79-112	WG550723
Total Xylene	mg/l	.15	0.142	94.6	84-118	WG550723
a, a, a-Trifluorotoluene (PID)				100.3	55-122	WG550723
pH	su	9.04	8.90	98.5	98-101	WG550790
Chloride	mg/l	40	40.1	100.	90-110	WG550678
Dissolved Solids	mg/l	8800	8560	97.3	85-115	WG550753
Specific Conductance	umhos/cm	427	440.	103.	85-115	WG551024

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0491	0.0461	98.0	79-114	6.36	20	WG550723

* 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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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/l	0.0512	0.0478	102.	80-116	6.93	20	WG550723
Toluene	mg/l	0.0511	0.0480	102.	79-112	6.11	20	WG550723
Total Xylene	mg/l	0.152	0.142	101.	84-118	6.76	20	WG550723
a,a,a-Trifluorotoluene(PID)				100.5	55-122			WG550723
pH	su	8.90	8.90	98.0	98-101	0	20	WG550790
Chloride	mg/l	40.1	40.1	100.	90-110	0	20	WG550678
Dissolved Solids	mg/l	8590	8560	98.0	85-115	0.327	20	WG550753
Specific Conductance	umhos/	440.	440.	103.	85-115	0	20	WG551024

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/l	0.0475	0	.05	95.0	35-147	L531149-02	WG550723
Ethylbenzene	mg/l	0.0510	0.000540	.05	101.	39-141	L531149-02	WG550723
Toluene	mg/l	0.0496	0	.05	99.3	35-148	L531149-02	WG550723
Total Xylene	mg/l	0.150	0	.15	100.	33-151	L531149-02	WG550723
a,a,a-Trifluorotoluene(PID)					100.5	55-122		WG550723

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/l	0.0485	0.0475	97.0	35-147	2.10	20	L531149-02	WG550723
Ethylbenzene	mg/l	0.0518	0.0510	102.	39-141	1.51	20	L531149-02	WG550723
Toluene	mg/l	0.0511	0.0496	102.	35-148	2.97	20	L531149-02	WG550723
Total Xylene	mg/l	0.153	0.150	102.	33-151	1.93	20	L531149-02	WG550723
a,a,a-Trifluorotoluene(PID)				102.6	55-122				WG550723

Batch number / Run number / Sample number cross reference

WG550723: R1816570: L531225-01
 WG550790: R1817171: L531225-01
 WG550678: R1817272: L531225-01
 WG550753: R1818515: L531225-01
 WG551024: R1818890: L531225-01

* * 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.'



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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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORN031810S		Analysis/Container/Preservative				Chain of Custody Page ___ of B012	
Project Description: Federal 18 #1T		City/State Collected: Farmington, NM		BTEX / 2-40ml / Cool + HCl EC, TDS, pH, Chlorides / 1-500ml / Cool				Prepared by: ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
PHONE: 505-333-3701	Client Project No.	Lab Project #						CoCode (lab use only) XTORNM	
FAX:	Site/Facility ID# Federal 18 #1T	P.O.#		Date Results Needed		Shipped Via: Fed Ex			
Collected by: James McDaniel	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		No		Remarks/contaminant			
Collected by (signature):	<input checked="" type="checkbox"/> Next Day.....100%	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		of		Sample # (lab only)			
Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>	<input type="checkbox"/> Two Day.....50%			Cntrs					
	<input type="checkbox"/> Three Day.....25%								
Sample ID	Comp/Grab	Matrix	Depth	Date	Time				
Water Sample	Grab	GW	-	8/15/11	12¹⁵	3	X	531225 -ol	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by: (Signature)	Date: 8/15/11	Time: 13¹⁵	Received by: (Signature)	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____	Condition (lab use only) OK
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4 °C	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-16-11	Time: 9:00
				pH Checked:	NCF:



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

Report Summary

Thursday September 08, 2011

Report Number: L534312

Samples Received: 09/03/11

Client Project:

Description: Federal 18 IT

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:

Mark W. Beasley, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

September 08, 2011

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

Date Received : September 03, 2011
Description : Federal 18 IT
Sample ID : WATER SAMPLE
Collected By : James McDaniel
Collection Date : 09/02/11 12:30

ESC Sample # : L534312-01

Site ID : FEDERAL 18 IT

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	41.	1.0	mg/l	9056	09/06/11	1
pH	7.2		su	9040C	09/07/11	1
Specific Conductance	2600	1.8	umhos/cm	9050A	09/07/11	1
Dissolved Solids	2500	10.	mg/l	2540C	09/08/11	1
Benzene	0.010	0.00050	mg/l	8021B	09/05/11	1
Toluene	0.012	0.00050	mg/l	8021B	09/05/11	1
Ethylbenzene	0.00064	0.00050	mg/l	8021B	09/05/11	1
Total Xylene	0.0032	0.0015	mg/l	8021B	09/05/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	97.6		% Rec.	8021B	09/05/11	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: 09/08/11 17:14 Printed: 09/08/11 17:33
L534312-01 (PH) - 7.21@20.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L534312-01	WG553747 WG553641	SAMP SAMP	Dissolved Solids pH	R1849656 R1848632	B T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
T8	(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 chromatography 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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September 08, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chloride	< 1	mg/l			WG553789	09/06/11 10:33
Benzene	< .0005	mg/l			WG553661	09/04/11 18:06
Ethylbenzene	< .0005	mg/l			WG553661	09/04/11 18:06
Toluene	< .0005	mg/l			WG553661	09/04/11 18:06
Total Xylene	< .0015	mg/l			WG553661	09/04/11 18:06
a,a,a-Trifluorotoluene (PID)		% Rec.	100.4	55-122	WG553661	09/04/11 18:06
pH	4.30	su			WG553641	09/07/11 16:06
Specific Conductance	2.10	umhos/cm			WG554051	09/07/11 21:23
Dissolved Solids	< 10	mg/l			WG553747	09/08/11 13:30

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	15.0	15.0	0.669	20	L534401-02	WG553789
pH	su	8.10	8.10	0.247	1	L534146-01	WG553641
Specific Conductance	umhos/cm	1600	1600	0.623	20	L534587-01	WG554051
Dissolved Solids	mg/l	2600	2550	0.118	5	L534312-01	WG553747

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chloride	mg/l	40	39.8	99.5	90-110	WG553789
Benzene	mg/l	.05	0.0461	92.1	79-114	WG553661
Ethylbenzene	mg/l	.05	0.0469	93.8	80-116	WG553661
Toluene	mg/l	.05	0.0484	96.9	79-112	WG553661
Total Xylene	mg/l	.15	0.137	91.6	84-118	WG553661
a,a,a-Trifluorotoluene (PID)				98.71	55-122	WG553661
pH	su	9.04	8.90	98.5	98-101	WG553641
Specific Conductance	umhos/cm	427	430.	101.	85-115	WG554051
Dissolved Solids	mg/l	8800	8940	102.	85-115	WG553747

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/l	39.8	39.8	100.	90-110	0	20	WG553789

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/l	0.0509	0.0461	102.	79-114	9.92	20	WG553661
Ethylbenzene	mg/l	0.0509	0.0469	102.	80-116	8.17	20	WG553661
Toluene	mg/l	0.0523	0.0484	104.	79-112	7.70	20	WG553661
Total Xylene	mg/l	0.148	0.137	98.0	84-118	7.27	20	WG553661
a,a,a-Trifluorotoluene (PID)				98.40	55-122			WG553661
pH	su	9.00	8.90	100.	98-101	1.12	20	WG553641
Specific Conductance	umhos/	430.	430.	101.	85-115	0	20	WG554051
Dissolved Solids	mg/l	8910	8940	101.	85-115	0.359	20	WG553747

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Chloride	mg/l	56.0	5.30	50	101.	80-120	L534401-01	WG553789
Benzene	mg/l	0.0509	0.000440	.05	101.	35-147	L534152-01	WG553661
Ethylbenzene	mg/l	0.0517	0.000260	.05	103.	39-141	L534152-01	WG553661
Toluene	mg/l	0.0535	0.000900	.05	105.	35-148	L534152-01	WG553661
Total Xylene	mg/l	0.153	0.000980	.15	101.	33-151	L534152-01	WG553661
a,a,a-Trifluorotoluene (PID)					97.63	55-122		WG553661

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Chloride	mg/l	55.5	56.0	100.	80-120	0.897	20	L534401-01	WG553789
Benzene	mg/l	0.0553	0.0509	110.	35-147	8.25	20	L534152-01	WG553661
Ethylbenzene	mg/l	0.0539	0.0517	107.	39-141	4.24	20	L534152-01	WG553661
Toluene	mg/l	0.0559	0.0535	110.	35-148	4.46	20	L534152-01	WG553661
Total Xylene	mg/l	0.158	0.153	105.	33-151	3.17	20	L534152-01	WG553661
a,a,a-Trifluorotoluene (PID)				97.07	55-122				WG553661

Batch number / Run number / Sample number cross reference

WG553789: R1846952: L534312-01
 WG553661: R1847192: L534312-01
 WG553641: R1848632: L534312-01
 WG554051: R1849195: L534312-01
 WG553747: R1849656: L534312-01

* * Calculations are performed prior to rounding of reported values.
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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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S		Analysis/Container/Preservative				of Custody A056 of ___	
Project Description: Federal 18 # 1T		City/State Collected: Farmington, NM		1-4oz/Coel 1-500ml/Coel BTEX (8021) EC, PH, TDS, chlorides				Prepared by: ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
PHONE: 505-333-3701	Client Project No.	Lab Project #						CoCode (lab use only) XTORNM	
FAX:	Site/Facility ID# Federal 18 # 1T	P.O.#		Template/Prelogin					
Collected by: James McDaniel	Rush? (Lab MUST be Notified) Next Day.....100% Two Day.....50% <input checked="" type="checkbox"/> Three Day.....25%	Date Results Needed		Shipped Via: Fed Ex					
Collected by (signature):	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	No		Remarks/contaminant					
Packed on ice <input checked="" type="checkbox"/>	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	of		Sample # (lab only)					
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs			
Water Sample	Grab	GW	-	9/2/11	12 ³⁰	3	X	X	

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by: (Signature)	Date: 9/2/11	Time: 1330	Received by: (Signature)	Samples returned via: FedEx_X_UPS_Other_	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4°	Bottles Received: 3
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9-3-11	Time: 0900
				pH Checked:	NCF: COC57



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Est. 1970

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

Report Summary

Thursday September 22, 2011

Report Number: L536742

Samples Received: 09/17/11

Client Project:

Description: Federal 18 # 1T

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

September 22, 2011

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

Date Received : September 17, 2011
 Description : Federal 18 # 1T
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 09/16/11 12:55

ESC Sample # : L536742-01

Site ID : FEDERAL 18 # 1T

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	38.	1.0	mg/l	9056	09/17/11	1
pH	7.2		su	9040C	09/22/11	1
Specific Conductance	2500	1.8	umhos/cm	9050A	09/19/11	1
Dissolved Solids	2400	10.	mg/l	2540C	09/22/11	1
Benzene	0.0096	0.00050	mg/l	8021B	09/19/11	1
Toluene	0.011	0.00050	mg/l	8021B	09/19/11	1
Ethylbenzene	0.00064	0.00050	mg/l	8021B	09/19/11	1
Total Xylene	0.0030	0.0015	mg/l	8021B	09/19/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	98.8		% Rec.	8021B	09/19/11	1

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

The reported analytical results relate only to the sample submitted.
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Reported: 09/22/11 15:17 Printed: 09/22/11 15:17
 L536742-01 (PH) - 7.19@19.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L536742-01	WG556319	SAMP	pH	R1868277	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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 chromatography 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.

Summary of Remarks For Samples Printed
09/22/11 at 15:17:28

TSR Signing Reports: 288
R4 - Rush: Three Day

drywt

Sample: L536742-01 Account: XTORNM Received: 09/17/11 09:00 Due Date: 09/22/11 00:00 RPT Date: 09/22/11 15:17



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L536742

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September 22, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chloride	< 1	mg/l			WG555681	09/17/11 06:57
Benzene	< .0005	mg/l			WG555822	09/19/11 17:19
Ethylbenzene	< .0005	mg/l			WG555822	09/19/11 17:19
Toluene	< .005	mg/l			WG555822	09/19/11 17:19
Total Xylene	< .0015	mg/l			WG555822	09/19/11 17:19
a, a, a-Trifluorotoluene (PID)		% Rec.	100.5	55-122	WG555822	09/19/11 17:19
Specific Conductance	1.30	umhos/cm			WG555734	09/19/11 15:20
Dissolved Solids	< 10	mg/l			WG556266	09/22/11 11:50
pH	4.70	su			WG556319	09/22/11 13:35

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Chloride	mg/l	48.0	48.0	0.627	20	L536385-09	WG555681
Chloride	mg/l	3.20	3.10	4.42	20	L536522-02	WG555681
Specific Conductance	umhos/cm	1400	1400	0.285	20	L535802-01	WG555734
Specific Conductance	umhos/cm	2600	2500	2.25	20	L536742-01	WG555734
Dissolved Solids	mg/l	0	0	0	5	L536784-12	WG556266
pH	su	8.10	8.00	0.747	1	L536311-02	WG556319
pH	su	6.90	6.90	0.290	1	L536867-01	WG556319

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chloride	mg/l	40	39.7	99.3	90-110	WG555681
Benzene	mg/l	.05	0.0509	102.	79-114	WG555822
Ethylbenzene	mg/l	.05	0.0534	107.	80-116	WG555822
Toluene	mg/l	.05	0.0550	110.	79-112	WG555822
Total Xylene	mg/l	.15	0.157	105.	84-118	WG555822
a, a, a-Trifluorotoluene (PID)				98.41	55-122	WG555822
Specific Conductance	umhos/cm	427	430.	101.	85-115	WG555734
Dissolved Solids	mg/l	8800	8360	95.0	85-115	WG556266
pH	su	9.04	8.90	98.5	98-101	WG556319

* 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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Level II

September 22, 2011

L536742

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/l	39.8	39.7	100.	90-110	0.252	20	WG555681
Benzene	mg/l	0.0504	0.0509	101.	79-114	1.12	20	WG555822
Ethylbenzene	mg/l	0.0519	0.0534	104.	80-116	2.83	20	WG555822
Toluene	mg/l	0.0535	0.0550	107.	79-112	2.93	20	WG555822
Total Xylene	mg/l	0.153	0.157	102.	84-118	3.08	20	WG555822
a,a,a-Trifluorotoluene (PID)				98.65	55-122			WG555822
Specific Conductance	umhos/	430.	430.	101.	85-115	0	20	WG555734
Dissolved Solids	mg/l	8390	8360	95.0	85-115	0.430	20	WG556266
pH	su	8.90	8.90	98.0	98-101	0	20	WG556319

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Chloride	mg/l	78.0	30.0	50	96.0	80-120	L536385-08	WG555681
Benzene	mg/l	0.533	0.530	.05	5.42*	35-147	L536562-01	WG555822
Ethylbenzene	mg/l	0.106	0.0560	.05	100.	39-141	L536562-01	WG555822
Toluene	mg/l	0.194	0.140	.05	107.	35-148	L536562-01	WG555822
Total Xylene	mg/l	0.373	0.250	.15	82.0	33-151	L536562-01	WG555822
a,a,a-Trifluorotoluene (PID)					97.38	55-122		WG555822

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Chloride	mg/l	79.5	78.0	99.0	80-120	1.90	20	L536385-08	WG555681
Benzene	mg/l	0.560	0.533	59.6	35-147	4.96	20	L536562-01	WG555822
Ethylbenzene	mg/l	0.112	0.106	112.	39-141	5.62	20	L536562-01	WG555822
Toluene	mg/l	0.206	0.194	132.	35-148	6.33	20	L536562-01	WG555822
Total Xylene	mg/l	0.393	0.373	95.2	33-151	5.18	20	L536562-01	WG555822
a,a,a-Trifluorotoluene (PID)				97.86	55-122				WG555822

Batch number / Run number / Sample number cross reference

WG555681: R1862372: L536742-01
 WG555822: R1864732: L536742-01
 WG555734: R1865232: L536742-01
 WG556266: R1867974: L536742-01
 WG556319: R1868277: L536742-01

* * 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.'



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September 22, 2011

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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S		Analysis/Container/Preservative			
Report to: James McDaniel		E-mail to: james_mcdaniel@xtoenergy.com		BTEX (2001) 2-40ml / HCl + Cool EC, TDS, pH, Chlorides 1-500ml / Cool			

Prepared by:



**ENVIRONMENTAL
Science corp**
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

Project Description: Federal 18 #1T		City/State Collected: Farmington, NM	
PHONE: 505-333-3701	Client Project No. -	Lab Project # -	
FAX: -	Site/Facility ID# Federal 18 #1T	P.O.# -	
Collected by: James McDaniel	Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input checked="" type="checkbox"/> Three Day.....25%	Date Results Needed	
Collected by (signature): <i>[Signature]</i>		Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	

CoCode (lab use only)
XTORNM

Template/Prelogin

Shipped Via: Fed Ex

Remarks/contaminant	Sample # (lab only)
	LS36742-01

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	Analysis/Container/Preservative		Remarks/contaminant	Sample # (lab only)
Water Sample	Grab	GW	-	9/16/11	1255	3	X	X		LS36742-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____ pH _____ Temp _____

Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by (Signature): <i>[Signature]</i>	Date: 9/16/11	Time: 1345	Received by (Signature): <i>[Signature]</i>	Samples returned via: FedEx_X_UPS_Other_	Condition: <i>[Signature]</i> (lab use only)
Relinquisher by (Signature): <i>[Signature]</i>	Date:	Time:	Received by (Signature): <i>[Signature]</i>	Temp: 3.4"	Bottles Received: 3

0966

COCST



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

Report Summary

Thursday October 06, 2011

Report Number: L539317

Samples Received: 10/01/11

Client Project:

Description: Federal 18 IT

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 - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

October 06, 2011

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

Date Received : October 01, 2011
 Description : Federal 18 IT
 Sample ID : WATER SAMPLE
 Collected By : James McDaniel
 Collection Date : 09/30/11 12:40

ESC Sample # : L539317-01
 Site ID : FEDERAL 18 IT
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	35.	1.0	mg/l	9056	10/04/11	1
pH	7.0		su	9040C	10/05/11	1
Specific Conductance	2600	1.8	umhos/cm	9050A	10/04/11	1
Dissolved Solids	2500	10.	mg/l	2540C	10/06/11	1
Benzene	0.0072	0.00050	mg/l	8021B	10/05/11	1
Toluene	0.0087	0.00050	mg/l	8021B	10/03/11	1
Ethylbenzene	0.00064	0.00050	mg/l	8021B	10/03/11	1
Total Xylene	0.0025	0.0015	mg/l	8021B	10/03/11	1
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	99.9		% Rec.	8021B	10/03/11	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
 The reported analytical results relate only to the sample submitted.
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 Reported: 10/06/11 17:37 Printed: 10/06/11 17:41
 L539317-01 (PH) - 7.03@17.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L539317-01	WG558849	SAMP	pH	R1885297	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(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

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- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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October 06, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Ethylbenzene	< .0005	mg/l			WG558529	10/03/11 02:40
Toluene	< .005	mg/l			WG558529	10/03/11 02:40
Total Xylene	< .0015	mg/l			WG558529	10/03/11 02:40
a,a,a-Trifluorotoluene(PID)		% Rec.	96.93	55-122	WG558529	10/03/11 02:40
Specific Conductance	< 1.8	umhos/cm			WG558402	10/04/11 10:16
Chloride	< 1	mg/l			WG558758	10/04/11 09:08
Benzene	< .0005	mg/l			WG558715	10/05/11 01:10
a,a,a-Trifluorotoluene(PID)		% Rec.	93.78	55-122	WG558715	10/05/11 01:10
pH	5.80	su			WG558849	10/05/11 12:25
Dissolved Solids	< 10	mg/l			WG558877	10/06/11 17:02

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Specific Conductance	umhos/cm	720.	720.	0.278	20	L538294-01	WG558402
Specific Conductance	umhos/cm	210.	210.	1.75	20	L539088-11	WG558402
pH	su	8.70	8.70	0.115	1	L539641-01	WG558849
pH	su	7.40	7.40	0.406	1	L539062-01	WG558849
Dissolved Solids	mg/l	0	4.00	28.6*	5	L539095-27	WG558877

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Ethylbenzene	mg/l	.05	0.0508	102.	80-116	WG558529
Toluene	mg/l	.05	0.0534	107.	79-112	WG558529
Total Xylene	mg/l	.15	0.149	99.2	84-118	WG558529
a,a,a-Trifluorotoluene(PID)				96.95	55-122	WG558529
Specific Conductance	umhos/cm	427	420.	98.4	85-115	WG558402
Chloride	mg/l	40	39.8	99.5	90-110	WG558758
Benzene	mg/l	.05	0.0419	83.8	79-114	WG558715
a,a,a-Trifluorotoluene(PID)				94.37	55-122	WG558715
pH	su	9.04	9.00	99.6	98-101	WG558849
Dissolved Solids	mg/l	8800	8530	96.9	85-115	WG558877

* 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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Quality Assurance Report
Level II

L539317

October 06, 2011

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Ethylbenzene	mg/l	0.0487	0.0508	97.0	80-116	4.14	20	WG558529
Toluene	mg/l	0.0512	0.0534	102.	79-112	4.17	20	WG558529
Total Xylene	mg/l	0.141	0.149	94.0	84-118	5.49	20	WG558529
a,a,a-Trifluorotoluene(PID)				96.89	55-122			WG558529
Specific Conductance	umhos/	420.	420.	98.0	85-115	0	20	WG558402
Chloride	mg/l	39.7	39.8	99.0	90-110	0.252	20	WG558758
Benzene	mg/l	0.0428	0.0419	86.0	79-114	2.27	20	WG558715
a,a,a-Trifluorotoluene(PID)				93.44	55-122			WG558715
pH	su	9.00	9.00	100.	98-101	0	20	WG558849
Dissolved Solids	mg/l	8470	8530	96.0	85-115	0.706	20	WG558877

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Ethylbenzene	mg/l	0.0597	0	.05	119.	39-141	L539223-07	WG558529
Toluene	mg/l	0.0617	0	.05	123.	35-148	L539223-07	WG558529
Total Xylene	mg/l	0.176	0	.15	117.	33-151	L539223-07	WG558529
a,a,a-Trifluorotoluene(PID)					96.52	55-122		WG558529
Benzene	mg/l	0.0429	0	.05	85.7	35-147	L538942-11	WG558715
a,a,a-Trifluorotoluene(PID)					94.17	55-122		WG558715

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Ethylbenzene	mg/l	0.0592	0.0597	118.	39-141	0.780	20	L539223-07	WG558529
Toluene	mg/l	0.0604	0.0617	121.	35-148	2.29	20	L539223-07	WG558529
Total Xylene	mg/l	0.174	0.176	116.	33-151	1.15	20	L539223-07	WG558529
a,a,a-Trifluorotoluene(PID)				95.88	55-122				WG558529
Benzene	mg/l	0.0436	0.0429	87.2	35-147	1.73	20	L538942-11	WG558715
a,a,a-Trifluorotoluene(PID)				93.51	55-122				WG558715

Batch number /Run number / Sample number cross reference

WG558529: R1881852: L539317-01
 WG558402: R1882979: L539317-01
 WG558758: R1883468: L539317-01
 WG558715: R1884835: L539317-01
 WG558849: R1885297: L539317-01
 WG558877: R1887432: L539317-01

* * 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.'



YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
382 Road 3100

Aztec, NM 87410

Quality Assurance Report
Level II

L539317

12065 Lebanon Rd.
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(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

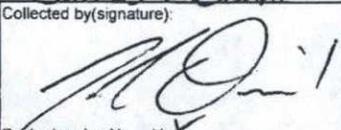
October 06, 2011

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.

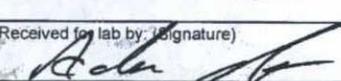
Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the 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.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S		Analysis/Container/Preservative				Chain of Custody Page ___ of ___	
Project Description: Federal 18 # 1T		City/State Collected: Farlington, NM		BTEX (E001) / 2-400c/Coel + HCl EC, TDS chlorides, pH / 1-500mc/Coel				Prepared by: D070	
PHONE: 505-333-3701	Client Project No. -	Lab Project # -	Report to: James McDaniel					 ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
FAX: -	Site/Facility ID# Federal 18 # 1T	P.O.# -	E-mail to: james_mcdaniel@xtoenergy.com	CoCode (lab use only)		XTORNM Template/Prelogin Shipped Via: Fed Ex			
Collected by: James McDaniel	<input type="checkbox"/> Rush? (Lab MUST be Notified)	Date Results Needed	No	Next Day.....100% Two Day.....50% <input checked="" type="checkbox"/> Three Day.....25%		Email? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes			
Collected by (signature): 	Packed on Ice N <input checked="" type="checkbox"/>					Remarks/contaminant L539317			
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	Sample # (lab only)		
Water Sample	Grab	GW	-	9/30/11	1240	3	-01		

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other _____ pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by (Signature): 	Date: 9/30/11	Time: 1:25	Received by: (Signature): 	Samples returned via: FedEx_X UPS_Other_	Condition: (lab use only)
Relinquisher by (Signature):	Date:	Time:	Received by: (Signature):	Temp: 3.8	Bottles Received: 3
Relinquisher by (Signature):	Date:	Time:	Received for lab by: (Signature): 	Date: 10-1-11	Time: 0900
				pH Checked:	NCF:
				COC SZ	