

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: XTO Energy, Inc.	Contact: Kurt Hoekstra	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3100	
Facility Name: WF Federal 25-1 Water Line Leak	Facility Type: Gas Well (Fruitland Coal & Harper Hill PC)	
Surface Owner: Federal	Mineral Owner	API No. 30-045-30681

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	25	30N	14W	2130	FNL	575	FEL	San Juan

Latitude: 36.7768 Longitude: -108.2599

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 20.5 BBL	Volume Recovered: None
Source of Release: Water Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery: 7-2-2017, 11:20am.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

OIL CONS. DIV DIST. 3

If a Watercourse was Impacted, Describe Fully.*

JUL 17 2017

Describe Cause of Problem and Remedial Action Taken.* On 7-2-2017 a XTO Production Foreman was notified of a water line leak near the WF Federal 25-1 well site. The produced water traveled down a small narrow drainage feature approximately 463 feet. On 7-3-2017 EHS Collected soil samples for analysis, the first sample was collected at the source, the second sample was collected in the middle at 252 feet, and the last sample was collected at the end at 463 feet. The site was ranked a 10 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to distance to surface water 200-1000 feet, the distance to a water well greater than 1000 feet and an estimated depth to groundwater greater than 100 feet. This will set the closure standards to 1000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX. The soil was sampled for TPH via USEPA Method 8015, and for BTEX via USEPA Method 8021, and chloride USEPA 300.0.

Describe Area Affected and Cleanup Action Taken.* Due to an estimated 20.5 BBL of produced water leaked, and sample results (attached) a release has been confirmed at this location. The sample results confirmed TPH, benzene, and total BTEX were below regulatory limits but did show slightly elevated chloride levels. XTO proposes to apply gypsum to the release area at an application rate of approximately 1/2 (one half) pound per linear foot to the impacted area. After the gypsum has been applied no further action will be taken.


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Kurt Hoekstra</i>		OIL CONSERVATION DIVISION	
Printed Name: Kurt Hoekstra		Approved by Environmental Specialist: <i>[Signature]</i>	
Title: EHS Coordinator		Approval Date: 9/5/2017	Expiration Date:
E-mail Address: Kurt_Hoekstra@xtoenergy.com		Conditions of Approval:	
Date: 7-12-2017 Phone: 505-333-3100		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

NVF1724848623

Produced Water Line
Leak

 36.7768, -108.2599

© 2017 Google

129 ft

Imagery Date: 3/15/2015 36°46'39.06" N 108°15'34.65" W el

July 11, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L920449
Samples Received: 07/06/2017
Project Number: 25-1 30-045-30681
Description: Water Line Leak 36.7768

Report To: James McDaniel
382 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

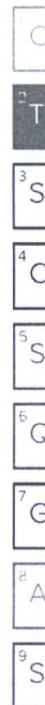


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ONE LAB. NATIONWIDE.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



SOURCE L920449-01 Solid

Collected by
Kurt

Collected date/time
07/03/17 09:35

Received date/time
07/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG996309	1	07/07/17 09:20	07/07/17 09:28	MLW
Wet Chemistry by Method 9056A	WG996166	5	07/06/17 15:04	07/08/17 00:19	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG996365	1	07/06/17 14:23	07/07/17 04:10	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG996297	1	07/06/17 21:36	07/07/17 15:04	KLM

MIDDLE 252FT L920449-02 Solid

Collected by
Kurt

Collected date/time
07/03/17 09:45

Received date/time
07/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG996309	1	07/07/17 09:20	07/07/17 09:28	MLW
Wet Chemistry by Method 9056A	WG997452	5	07/10/17 12:30	07/10/17 18:56	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG996365	1	07/06/17 14:23	07/07/17 04:33	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG996297	1	07/06/17 21:36	07/07/17 15:18	KLM

END 463FT L920449-03 Solid

Collected by
Kurt

Collected date/time
07/03/17 09:52

Received date/time
07/06/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG996309	1	07/07/17 09:20	07/07/17 09:28	MLW
Wet Chemistry by Method 9056A	WG996166	5	07/06/17 15:04	07/08/17 01:01	DR
Volatile Organic Compounds (GC) by Method 8015/8021	WG996365	1	07/06/17 14:23	07/07/17 04:57	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG996297	1	07/06/17 21:36	07/07/17 15:32	KLM



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

1	C
2	T
3	S
4	C
5	S
6	Q
7	G
8	A
9	S



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.9		1	07/07/2017 09:28	WG996309

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	4910		65.0	5	07/08/2017 00:19	WG996166

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000650	1	07/07/2017 04:10	WG996365
Toluene	ND		0.00650	1	07/07/2017 04:10	WG996365
Ethylbenzene	ND		0.000650	1	07/07/2017 04:10	WG996365
Total Xylene	0.00196		0.00195	1	07/07/2017 04:10	WG996365
TPH (GC/FID) Low Fraction	ND		0.130	1	07/07/2017 04:10	WG996365
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	105		77.0-120		07/07/2017 04:10	WG996365
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	106		75.0-128		07/07/2017 04:10	WG996365

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		5.20	1	07/07/2017 15:04	WG996297
C28-C40 Oil Range	6.43	B	5.20	1	07/07/2017 15:04	WG996297
(S) <i>o</i> -Terphenyl	86.6		18.0-148		07/07/2017 15:04	WG996297

MIDDLE 252FT

Collected date/time: 07/03/17 09:45

SAMPLE RESULTS - 02

L920449

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	07/07/2017 09:28	WG996309

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	5470		57.1	5	07/10/2017 18:56	WG997452

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.000571	1	07/07/2017 04:33	WG996365
Toluene	ND		0.00571	1	07/07/2017 04:33	WG996365
Ethylbenzene	ND		0.000571	1	07/07/2017 04:33	WG996365
Total Xylene	ND	J6	0.00171	1	07/07/2017 04:33	WG996365
TPH (GC/FID) Low Fraction	ND		0.114	1	07/07/2017 04:33	WG996365
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		07/07/2017 04:33	WG996365
(S) a,a,a-Trifluorotoluene(PID)	105		75.0-128		07/07/2017 04:33	WG996365

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.57	1	07/07/2017 15:18	WG996297
C28-C40 Oil Range	5.20	B	4.57	1	07/07/2017 15:18	WG996297
(S) o-Terphenyl	93.3		18.0-148		07/07/2017 15:18	WG996297

END 463FT

Collected date/time: 07/03/17 09:52

SAMPLE RESULTS - 03

L920449

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	07/07/2017 09:28	<u>WG996309</u>

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1540		56.0	5	07/08/2017 01:01	<u>WG996166</u>

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000560	1	07/07/2017 04:57	<u>WG996365</u>
Toluene	ND		0.00560	1	07/07/2017 04:57	<u>WG996365</u>
Ethylbenzene	ND		0.000560	1	07/07/2017 04:57	<u>WG996365</u>
Total Xylene	ND		0.00168	1	07/07/2017 04:57	<u>WG996365</u>
TPH (GC/FID) Low Fraction	ND		0.112	1	07/07/2017 04:57	<u>WG996365</u>
(S) o,a,a-Trifluorotoluene(FID)	104		77.0-120		07/07/2017 04:57	<u>WG996365</u>
(S) o,a,a-Trifluorotoluene(PID)	106		75.0-128		07/07/2017 04:57	<u>WG996365</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	34.6		4.48	1	07/07/2017 15:32	<u>WG996297</u>
C28-C40 Oil Range	19.0		4.48	1	07/07/2017 15:32	<u>WG996297</u>
(S) o-Terphenyl	78.9		18.0-148		07/07/2017 15:32	<u>WG996297</u>

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

WG996309

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

L920449-01,02,03

Method Blank (MB)

(MB) R3231774-1 07/07/17 09:28

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000500			

L920391-03 Original Sample (OS) • Duplicate (DUP)

(OS) L920391-03 07/07/17 09:28 • (DUP) R3231774-3 07/07/17 09:28

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.0	86.0	1	0.0653		5

Laboratory Control Sample (LCS)

(LCS) R3231774-2 07/07/17 09:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

ACCOUNT:

XTO Energy - San Juan Division

PROJECT:

25-1 30-045-30681

SDG:

L920449

DATE/T

07/11/17

Method Blank (MB)

(MB) R3232142-5 07/07/17 14:40				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		0.795	10.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3232142-6 07/07/17 15:08 • (LCSD) R3232142-7 07/07/17 15:29										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chloride	200	200	204	100	102	80-120			2	15

L920449-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L920449-03 07/08/17 01:01 • (MS) R3232142-8 07/08/17 01:22 • (MSD) R3232142-9 07/08/17 02:26										
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%		
Chloride	112	1540	2150	2150	110	110	5	80-120		

Method Blank (MB)

(MB) R3232418-1 07/10/17 13:17				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		0.795	10.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3232418-2 07/10/17 13:38 • (LCSD) R3232418-3 07/10/17 13:59										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chloride	200	205	206	103	103	80-120			0	15

WG996365

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

L920449-01,02,03

Method Blank (MB)

(MB) R3231954-5 07/07/17 00:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000313	J	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID) 106				77.0-120
(S) a,a,a-Trifluorotoluene(PID) 108				75.0-128

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231954-1 07/06/17 22:12 • (LCSD) R3231954-2 07/06/17 22:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0513	0.0523	103	105	71.0-121			1.93	20
Toluene	0.0500	0.0520	0.0517	104	103	72.0-120			0.420	20
Ethylbenzene	0.0500	0.0535	0.0534	107	107	76.0-121			0.230	20
Total Xylene	0.150	0.162	0.159	108	106	75.0-124			1.68	20
(S) a,a,a-Trifluorotoluene(FID)				106	106	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				106	107	75.0-128				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231954-3 07/06/17 22:59 • (LCSD) R3231954-4 07/06/17 23:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.06	6.22	110	113	70.0-136			2.55	20
(S) a,a,a-Trifluorotoluene(FID)				107	107	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)				122	123	75.0-128				

L920449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L920449-02 07/07/17 04:33 • (MS) R3231954-6 07/07/17 06:33 • (MSD) R3231954-7 07/07/17 06:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier
Benzene	0.0571	ND	0.0398	0.0478	69.1	83.2	1	10.0-146		
Toluene	0.0571	ND	0.0387	0.0467	67.9	81.8	1	10.0-143		
Ethylbenzene	0.0571	ND	0.0391	0.0473	68.5	82.9	1	10.0-147		
Total Xylene	0.171	ND	0.118	0.142	69.1	83.2	1	10.0-149	J6	

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
25-1 30-045-30681SDG:
L920449DATE/T
07/11/17

WG996365

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

L920449-01,02,03

L920449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L920449-02 07/07/17 04:33 • (MS) R3231954-6 07/07/17 06:33 • (MSD) R3231954-7 07/07/17 06:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier
(S) a,a,a-Trifluorotoluene(FID)					104	104		77.0-120		
(S) a,a,a-Trifluorotoluene(PID)					106	106		75.0-128		

L920449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L920449-02 07/07/17 04:33 • (MS) R3231954-8 07/07/17 07:20 • (MSD) R3231954-9 07/07/17 07:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier
TPH (GC/FID) Low Fraction	6.28	ND	5.38	5.20	85.7	82.9	1	10.0-147		
(S) a,a,a-Trifluorotoluene(FID)					98.9	99.8		77.0-120		
(S) a,a,a-Trifluorotoluene(PID)					108	109		75.0-128		

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
25-1 30-045-30681SDG:
L920449DATE/T
07/11/17

WG996297

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

L920449-01,02,03

Method Blank (MB)

(MB) R3231684-1 07/07/17 10:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	1.06	<u>J</u>	0.274	4.00
(S) o-Terphenyl	91.4			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231684-2 07/07/17 10:20 • (LCSD) R3231684-3 07/07/17 10:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	60.0	48.9	55.3	81.5	92.2	50.0-150			12.3	20
(S) o-Terphenyl				95.6	115	18.0-148				

ACCOUNT:
XTO Energy - San Juan DivisionPROJECT:
25-1 30-045-30681SDG:
L920449DATE/T
07/11/17



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

C

T

S

C

S

Q

G

A

S



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

ESC LAB SCIENCES Cooler Receipt Form

Client:	<i>X TORAM</i>	SDG#	<i>19</i>
Cooler Received/Opened On:	<i>7/6/17</i>	Temperature:	<i>3.4</i>
Received By: Marina Malone			
Signature: <i>Marina Malone</i>			

Receipt Check List	NP	Yes
COC Seal Present / Intact?	<i>✓</i>	
COC Signed / Accurate?		<i>✓</i>
Bottles arrive intact?		<i>✓</i>
Correct bottles used?		<i>✓</i>
Sufficient volume sent?		<i>✓</i>
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		