

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: Logan Hixon	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683	
Facility Name: Romero Gas Com A 1	Facility Type: Gas Well	
Surface Owner: Private	Mineral Owner: Private	API No. 30-045-25509

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	27	29 N	10W	1850	FSL	1850	FWL	San Juan

Latitude: N36.695109 Longitude: W-107.875231

NATURE OF RELEASE

Type of Release: Produced Water/Oil	Volume of Release: Approximately 14 bbl.	Volume Recovered: 5 bbl. Recovered
Source of Release: Rod String and Polish Rod Liner	Date and Hour of Occurrence: May 30, 2017 at Unknown Time	Date and Hour of Discovery: May 30, 2017 at 1300.
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.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On May 30, 2017, a release was discovered on the polish rod liner and rod string. An estimated 14 bbls of fluids (produced water/oil) was released. In immediate response 5 bbls of fluid was recovered. The well was shut in and it was discovered that the polish rod liner connection had mechanically backed off allowing for produced fluids to flow between the rod string and the liner. The impacted area was approximately 146' x 6' (wide at widest point) x 6" deep. The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills, and Releases. The depth to ground water was estimated to be less than 50 feet below ground surface. This set the regulatory limits to 100 ppm TPH, 10 ppm benzene, and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.* See attached Remediation Activities, Sample Results, and Site Map*

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon	Approved by Environmental Specialist: 	
Title: EHS Coordinator	Approval Date: 9/13/17	Expiration Date:
E-mail Address: Logan.Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/18/17	Phone: 505-333-3683	

* Attach Additional Sheets If Necessary

#NCS 1725633499

OIL CONS. DIV DIST. 3

JUL 21 2017

72

Affected Area and Cleanup Actions

May 30, 2017-

One (1) composite sample was collected from the release area. The sample was analyzed for TPH (DRO/GRO/MRO) via USEPA Method 8015, BTEX via USEPA Method 8021, and for chlorides. The samples collected returned results below the standard for Benzene, but above the standard for BTEX and TPH determined for this site.

June 6, 2017-

The NMOCD was notified of remediation activities to begin on June 8, 2017.

June 8, 2017-

Excavation activities began to remove the impacted soil. The excavation of the section of the release from 110'-146'x6" deep. A sample was collected of the area and was sent for laboratory analysis for TPH (DRO/GRO/MRO) and BTEX analysis via US EPA method 8015 and 8021 respectively, and chlorides. The 110-146'x6" deep returned results below the standards for Benzene, and BTEX, but above the standard for TPH.

June 13, 2017-

Additional excavation was completed of the area. One (1) sample was collected from the 0'-60'x1' deep, one (1) sample from 61'-110'x1' deep, and one (1) sample from 110'-146'x1' deep. The sample from 110'x146'x1' deep returned results below standards for Benzene, and BTEX, but above standards for TPH. The sample from 0'-60'x 1' deep returned results below standards for Benzene, and BTEX, but above standards for TPH. The sample from 61'-110'x1' deep returned results below standards for Benzene, and BTEX, but above standards for TPH.

June 14, 2017-

It was requested that no further action be required for the areas of release from 0'-60'x1' deep and 110'-146'x1' deep.

June 16, 2017-

The request for no further action was granted for the (2) two areas. (*attached*).

June 19, 2017-

Additional excavation was completed on the area of 61'-110' to an extent of 2' deep. The sample from 61'-110' to an extent of 2' deep returned results below standards for Benzene, and BTEX, but above standards for TPH.

June 26, 2017-

Additional excavation was completed on the area of 61'-110' to an extent of 2.5' deep. The sample from 61'-110' to an extent of 2.5' deep returned results below standards for Benzene, and BTEX, but above standards for TPH.

July 5, 2017-

Additional excavation was completed on the area of 61'-110' to an extent of 3' deep. The sample from 61'-110' to an extent of 3' deep returned results below standard set for this site. Approximately 150 CY of soil was disposed of at the Envirotech Landfarm. No further action required.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 05, 2017

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Romero Gas Com A 1

OrderNo.: 1706006

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/1/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706006

Date Reported: 6/5/2017

CLIENT: XTO Energy

Client Sample ID: Surface Composite

Project: Romero Gas Com A 1

Collection Date: 5/30/2017 4:30:00 PM

Lab ID: 1706006-001

Matrix: SOIL

Received Date: 6/1/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	1100	30		mg/Kg	20	6/1/2017 12:04:28 PM	32061
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	50000	990		mg/Kg	100	6/1/2017 11:53:56 AM	32055
Motor Oil Range Organics (MRO)	18000	4900		mg/Kg	100	6/1/2017 11:53:56 AM	32055
Surr: DNOP	0	70-130	S	%Rec	100	6/1/2017 11:53:56 AM	32055
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	3100	330		mg/Kg	100	6/1/2017 4:07:51 PM	R43188
Surr: BFB	339	54-150	S	%Rec	100	6/1/2017 4:07:51 PM	R43188
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	2.8	1.6		mg/Kg	100	6/1/2017 4:07:51 PM	B43188
Toluene	57	3.3		mg/Kg	100	6/1/2017 4:07:51 PM	B43188
Ethylbenzene	25	3.3		mg/Kg	100	6/1/2017 4:07:51 PM	B43188
Xylenes, Total	240	6.5		mg/Kg	100	6/1/2017 4:07:51 PM	B43188
Surr: 4-Bromofluorobenzene	133	66.6-132	S	%Rec	100	6/1/2017 4:07:51 PM	B43188

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706006

05-Jun-17

Client: XTO Energy
Project: Romero Gas Com A 1

Sample ID	MB-32061		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 32061		RunNo: 43191					
Prep Date:	6/1/2017		Analysis Date: 6/1/2017		SeqNo: 1360495		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32061		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32061		RunNo: 43191					
Prep Date:	6/1/2017		Analysis Date: 6/1/2017		SeqNo: 1360496		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706006

05-Jun-17

Client: XTO Energy

Project: Romero Gas Com A 1

Sample ID	LCS-32055		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32055		RunNo: 43184					
Prep Date:	6/1/2017		Analysis Date: 6/1/2017		SeqNo: 1359572		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	73.2	114			
Surr: DNOP	4.9		5.000		98.0	70	130			

Sample ID	MB-32055	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	32055		RunNo:	43184				
Prep Date:	6/1/2017	Analysis Date:	6/1/2017		SeqNo:	1359573		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706006

05-Jun-17

Client: XTO Energy
Project: Romero Gas Com A 1

Sample ID	2.5UG GRO LCS		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	LCSS		Batch ID:	R43188		RunNo:	43188			
Prep Date:			Analysis Date:	6/1/2017		SeqNo:	1360032	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB	1100		1000		106	54	150			

Sample ID	RB		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	PBS		Batch ID:	R43188		RunNo:	43188			
Prep Date:			Analysis Date:	6/1/2017		SeqNo:	1360033	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706006

05-Jun-17

Client: XTO Energy
Project: Romero Gas Com A 1

Sample ID	100NG BTEX LCS		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	B43188		RunNo:	43188			
Prep Date:			Analysis Date:	6/1/2017		SeqNo:	1360036	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Sample ID	RB		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	B43188		RunNo:	43188			
Prep Date:			Analysis Date:	6/1/2017		SeqNo:	1360042	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	66.6	132			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1706006

RcptNo: 1

Received By: Anne Thorne

6/1/2017 7:20:00 AM

Anne Thorne

Completed By: Anne Thorne

6/1/2017 8:28:26 AM

Anne Thorne

Reviewed By:

aj

61117

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 12, 2017

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Romero Gas Com A1

OrderNo.: 1706481

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/9/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706481

Date Reported: 6/12/2017

CLIENT: XTO Energy

Client Sample ID: 110'-146' Composite

Project: Romero Gas Com A1

Collection Date: 6/8/2017 10:45:00 AM

Lab ID: 1706481-001

Matrix: SOIL

Received Date: 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	45	30		mg/Kg	20	6/9/2017 9:14:51 PM	32211
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	220	9.6		mg/Kg	1	6/9/2017 12:03:57 PM	32192
Surr: DNOP	96.3	70-130		%Rec	1	6/9/2017 12:03:57 PM	32192
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	21	4.2		mg/Kg	1	6/9/2017 1:18:37 PM	G43390
Surr: BFB	325	54-150	S	%Rec	1	6/9/2017 1:18:37 PM	G43390
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/9/2017 1:18:37 PM	B43390
Toluene	0.047	0.042		mg/Kg	1	6/9/2017 1:18:37 PM	B43390
Ethylbenzene	0.054	0.042		mg/Kg	1	6/9/2017 1:18:37 PM	B43390
Xylenes, Total	0.53	0.084		mg/Kg	1	6/9/2017 1:18:37 PM	B43390
Surr: 4-Bromofluorobenzene	133	66.6-132	S	%Rec	1	6/9/2017 1:18:37 PM	B43390

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706481

12-Jun-17

Client: XTO Energy

Project: Romero Gas Com A1

Sample ID	MB-32211		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32211		RunNo:	43415				
Prep Date:	6/9/2017		Analysis Date:	6/9/2017		SeqNo:	1366812		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32211		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS		Batch ID:	32211		RunNo:	43415				
Prep Date:	6/9/2017		Analysis Date:	6/9/2017		SeqNo:	1366813		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	94.8	90	110				

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706481

12-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	LCS-32192		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32192		RunNo: 43379					
Prep Date:	6/9/2017		Analysis Date: 6/9/2017		SeqNo: 1365958		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	73.2	114			
Surr: DNOP	4.6		5.000		91.6	70	130			

Sample ID	MB-32192		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32192		RunNo: 43379					
Prep Date:	6/9/2017		Analysis Date: 6/9/2017		SeqNo: 1365959		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706481

12-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G43390	RunNo:	43390					
Prep Date:		Analysis Date:	6/9/2017	SeqNo:	1366595	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.4	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G43390	RunNo:	43390					
Prep Date:		Analysis Date:	6/9/2017	SeqNo:	1366596	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	76.4	125			
Surr: BFB	1200		1000		115	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706481

12-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: B43390			RunNo: 43390					
Prep Date:		Analysis Date: 6/9/2017			SeqNo: 1366613		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		120	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B43390	RunNo:	43390					
Prep Date:		Analysis Date:	6/9/2017	SeqNo:	1366614	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	66.6	132			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-343-3975 FAX: 505-343-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1706481

RcptNo: 1

Received By: Anne Thorne

6/9/2017 7:15:00 AM

Completed By: Anne Thorne

6/9/2017 8:18:13 AM

Reviewed By: ENM

06/09/17

Anne Thorne

Anne Thorne

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

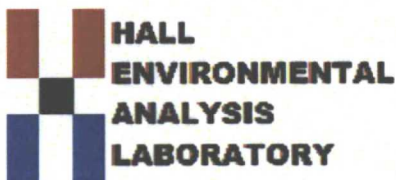
18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

1069

[illegible]

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 15, 2017

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Romero Gas Com A1

OrderNo.: 1706728

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/14/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706728

Date Reported: 6/15/2017

CLIENT: XTO Energy

Client Sample ID: 110'-146' x 1' D

Project: Romero Gas Com A1

Collection Date: 6/13/2017 10:45:00 AM

Lab ID: 1706728-001

Matrix: SOIL

Received Date: 6/14/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	39	30		mg/Kg	20	6/14/2017 10:40:42 AM	32282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	84	10		mg/Kg	1	6/14/2017 10:31:43 AM	32271
Motor Oil Range Organics (MRO)	57	50		mg/Kg	1	6/14/2017 10:31:43 AM	32271
Surr: DNOP	103	70-130		%Rec	1	6/14/2017 10:31:43 AM	32271
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	6/14/2017 9:23:53 AM	32257
Surr: BFB	93.1	54-150		%Rec	1	6/14/2017 9:23:53 AM	32257
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	6/14/2017 9:23:53 AM	32257
Toluene	ND	0.045		mg/Kg	1	6/14/2017 9:23:53 AM	32257
Ethylbenzene	ND	0.045		mg/Kg	1	6/14/2017 9:23:53 AM	32257
Xylenes, Total	ND	0.089		mg/Kg	1	6/14/2017 9:23:53 AM	32257
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	6/14/2017 9:23:53 AM	32257

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706728

Date Reported: 6/15/2017

CLIENT: XTO Energy

Client Sample ID: 61'-110' X 1' D

Project: Romero Gas Com A1

Collection Date: 6/13/2017 2:15:00 PM

Lab ID: 1706728-002

Matrix: SOIL

Received Date: 6/14/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	44	30		mg/Kg	20	6/14/2017 10:53:06 AM	32282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	270	9.4		mg/Kg	1	6/14/2017 10:56:15 AM	32271
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	6/14/2017 10:56:15 AM	32271
Surr: DNOP	102	70-130		%Rec	1	6/14/2017 10:56:15 AM	32271
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/14/2017 9:47:43 AM	32257
Surr: BFB	128	54-150		%Rec	1	6/14/2017 9:47:43 AM	32257
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	6/14/2017 9:47:43 AM	32257
Toluene	ND	0.039		mg/Kg	1	6/14/2017 9:47:43 AM	32257
Ethylbenzene	ND	0.039		mg/Kg	1	6/14/2017 9:47:43 AM	32257
Xylenes, Total	ND	0.078		mg/Kg	1	6/14/2017 9:47:43 AM	32257
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	6/14/2017 9:47:43 AM	32257

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706728

Date Reported: 6/15/2017

CLIENT: XTO Energy

Client Sample ID: 0'-60' X 1' D

Project: Romero Gas Com A1

Collection Date: 6/13/2017 2:45:00 PM

Lab ID: 1706728-003

Matrix: SOIL

Received Date: 6/14/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	99	30		mg/Kg	20	6/14/2017 11:05:31 AM	32282
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	49	9.8		mg/Kg	1	6/14/2017 11:20:59 AM	32271
Motor Oil Range Organics (MRO)	83	49		mg/Kg	1	6/14/2017 11:20:59 AM	32271
Surr: DNOP	99.2	70-130		%Rec	1	6/14/2017 11:20:59 AM	32271
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	6/14/2017 10:11:42 AM	32257
Surr: BFB	104	54-150		%Rec	1	6/14/2017 10:11:42 AM	32257
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/14/2017 10:11:42 AM	32257
Toluene	ND	0.041		mg/Kg	1	6/14/2017 10:11:42 AM	32257
Ethylbenzene	ND	0.041		mg/Kg	1	6/14/2017 10:11:42 AM	32257
Xylenes, Total	ND	0.083		mg/Kg	1	6/14/2017 10:11:42 AM	32257
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	1	6/14/2017 10:11:42 AM	32257

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706728

15-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32282		SampType: mbk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 32282		RunNo: 43485					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1370344		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32282		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32282		RunNo: 43485					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1370345		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706728

15-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	LCS-32271		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32271		RunNo: 43444					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1369340		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	73.2	114			
Surr: DNOP	4.8		5.000		96.7	70	130			

Sample ID	MB-32271		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32271		RunNo: 43444					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1369341		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	70	130			

Sample ID	1706728-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	110'-146' x 1' D		Batch ID: 32271		RunNo: 43444					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1369836		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.7	48.26	83.91	118	55.8	122			
Surr: DNOP	4.6		4.826		94.6	70	130			

Sample ID	1706728-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	110'-146' x 1' D		Batch ID: 32271		RunNo: 43444					
Prep Date:	6/14/2017		Analysis Date: 6/14/2017		SeqNo: 1369837		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	10	49.90	83.91	78.7	55.8	122	13.5	20	
Surr: DNOP	4.7		4.990		93.7	70	130	0	0	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706728

15-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32257		SampType:		MBLK		TestCode: EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:		32257		RunNo: 43490				
Prep Date:	6/13/2017		Analysis Date:		6/14/2017		SeqNo: 1370009		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	960		1000		95.9	54	150				

Sample ID	LCS-32257		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32257		RunNo: 43490					
Prep Date:	6/13/2017		Analysis Date: 6/14/2017		SeqNo: 1370010		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	76.4	125			
Surr: BFB	1000		1000		103	54	150			

Sample ID	MB-32244		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32244		RunNo: 43491					
Prep Date:	6/13/2017		Analysis Date: 6/14/2017		SeqNo: 1370036		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		110	54	150			

Sample ID	LCS-32244		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32244		RunNo: 43491					
Prep Date:	6/13/2017		Analysis Date: 6/14/2017		SeqNo: 1370037		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		119	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706728

15-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32257		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 32257		RunNo: 43490					
Prep Date:	6/13/2017		Analysis Date: 6/14/2017		SeqNo: 1370018		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		123	66.6	132			

Sample ID	LCS-32257			SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS			Batch ID:	32257		RunNo:	43490			
Prep Date:	6/13/2017			Analysis Date:	6/14/2017		SeqNo:	1370019		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	105	80	120				
Toluene	1.1	0.050	1.000	0	106	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.2	0.10	3.000	0	108	80	120				
Surr: 4-Bromofluorobenzene	1.2		1.000		125	66.6	132				

Sample ID	MB-32244		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	32244		RunNo:	43491				
Prep Date:	6/13/2017		Analysis Date:	6/14/2017		SeqNo:	1370062		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.1		1.000		108	66.6	132				

Sample ID	LCS-32244		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	32244		RunNo:	43491				
Prep Date:	6/13/2017		Analysis Date:	6/14/2017		SeqNo:	1370063		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132				

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysts Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1706728

RcptNo: 1

Received By: Anne Thorne

6/14/2017 7:50:00 AM

Completed By: Anne Thorne

6/14/2017 7:59:02 AM

Reviewed By:

6/14/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

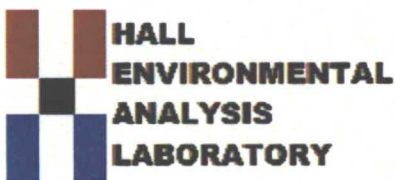
17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

[illegible]

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 22, 2017

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410
TEL: (505) 787-0519
FAX (505) 333-3280

RE: Romero Gas Com A1

OrderNo.: 1706A36

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1706A36

Date Reported: 6/22/2017

CLIENT: XTO Energy

Client Sample ID: 61' x 110' x 2' D

Project: Romero Gas Com A1

Collection Date: 6/19/2017 10:45:00 AM

Lab ID: 1706A36-001

Matrix: SOIL

Received Date: 6/20/2017 7:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	57	30		mg/Kg	20	6/22/2017 6:35:36 AM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	140	9.7		mg/Kg	1	6/21/2017 11:24:41 AM	32398
Motor Oil Range Organics (MRO)	110	48		mg/Kg	1	6/21/2017 11:24:41 AM	32398
Surr: DNOP	97.7	70-130		%Rec	1	6/21/2017 11:24:41 AM	32398
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	6/21/2017 4:05:37 AM	32371
Surr: BFB	96.9	54-150		%Rec	1	6/21/2017 4:05:37 AM	32371
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/21/2017 4:05:37 AM	32371
Toluene	ND	0.043		mg/Kg	1	6/21/2017 4:05:37 AM	32371
Ethylbenzene	ND	0.043		mg/Kg	1	6/21/2017 4:05:37 AM	32371
Xylenes, Total	ND	0.085		mg/Kg	1	6/21/2017 4:05:37 AM	32371
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	1	6/21/2017 4:05:37 AM	32371

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A36

22-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32429		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 32429		RunNo: 43687					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377162		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-32429		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 32429		RunNo: 43687					
Prep Date:	6/21/2017		Analysis Date: 6/22/2017		SeqNo: 1377163		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A36

22-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	LCS-32398		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	32398		RunNo:	43677				
Prep Date:	6/20/2017		Analysis Date:	6/21/2017		SeqNo:	1375846		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	73.2	114				
Surr: DNOP	3.9		5.000		78.3	70	130				

Sample ID	MB-32398		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32398		RunNo: 43677					
Prep Date:	6/20/2017		Analysis Date: 6/21/2017		SeqNo: 1375847		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A36

22-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32371		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32371		RunNo: 43647					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1375311		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.3	54	150			

Sample ID	LCS-32371		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32371		RunNo: 43647					
Prep Date:	6/19/2017		Analysis Date: 6/20/2017		SeqNo: 1375312		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	76.4	125			
Surr: BFB	1100		1000		109	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A36

22-Jun-17

Client: XTO Energy
Project: Romero Gas Com A1

Sample ID	MB-32371		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	32371		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375343	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

Sample ID	LCS-32371		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	32371		RunNo:	43647			
Prep Date:	6/19/2017		Analysis Date:	6/20/2017		SeqNo:	1375344	Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		125	66.6	132			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: XTO Energy

Work Order Number: 1706A36

RcptNo: 1

Received By: Anne Thorne

6/20/2017 7:35:00 AM

Completed By: Anne Thorne

6/20/2017 8:27:44 AM

Reviewed By: ENH

06/20/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			



Analytical Report

Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number:

Samples Received: 6/26/2017 2:11:00PM

Job Number: 98031-0528

Work Order: P706037

Project Name/Location: Romero Gas Com A #1A

Report Reviewed By:

Date: 6/27/17

Walter Hinchman, Laboratory Director

Date: 6/27/17

Tim Cain, Quality Assurance Officer

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Romero Gas Com A #1A
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
27-Jun-17 14:51

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
60-110x 2.5'	P706037-01A	Soil	06/26/17	06/26/17	Glass Jar, 4 oz.

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Ph (970) 259-0615 Fr (800) 362-1879

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



XTO Energy Inc.	Project Name:	Romero Gas Com A #1A	Reported:
382 CR 3100	Project Number:	98031-0528	27-Jun-17 14:51
Aztec NM, 87410	Project Manager:	Logan Hixon	

60-110x 2.5'
P706037-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1726004	06/26/17	06/26/17	EPA 8015D	
Diesel Range Organics (C10-C28)	341	25.0	mg/kg	1	1726005	06/27/17	06/27/17	EPA 8015D	
Oil Range Organics (C28-C40+)	120	50.0	mg/kg	1	1726005	06/27/17	06/27/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %		50-150	1726004	06/26/17	06/26/17	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1726005	06/27/17	06/27/17	EPA 8015D	

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laboratory@envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Romcro Gas Com A #1A
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
27-Jun-17 14:51

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1726004 - Purge and Trap EPA 5030A

Blank (1726004-BLK1)

Prepared & Analyzed: 26-Jun-17

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		"	8.00		111	50-150			

LCS (1726004-BS1)

Prepared & Analyzed: 26-Jun-17

Gasoline Range Organics (C6-C10)	67.1	20.0	mg/kg	60.9		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.84		"	8.00		111	50-150			

Matrix Spike (1726004-MS1)

Source: P706037-01

Prepared & Analyzed: 26-Jun-17

Gasoline Range Organics (C6-C10)	65.6	20.0	mg/kg	60.9	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		"	8.00		112	50-150			

Matrix Spike Dup (1726004-MSD1)

Source: P706037-01

Prepared & Analyzed: 26-Jun-17

Gasoline Range Organics (C6-C10)	66.4	20.0	mg/kg	60.9	ND	109	70-130	1.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		"	8.00		111	50-150			

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XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Romero Gas Com A #1A
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
27-Jun-17 14:51

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1726005 - DRO Extraction EPA 3570										
Blank (1726005-BLK1)				Prepared & Analyzed: 27-Jun-17						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			
LCS (1726005-BS1)				Prepared & Analyzed: 27-Jun-17						
Diesel Range Organics (C10-C28)	469	25.0	mg/kg	500		93.7	38-132			
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			
Matrix Spike (1726005-MS1)				Source: P706037-01		Prepared & Analyzed: 27-Jun-17				
Diesel Range Organics (C10-C28)	827	25.0	mg/kg	500	341	97.1	38-132			
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			
Matrix Spike Dup (1726005-MSD1)				Source: P706037-01		Prepared & Analyzed: 27-Jun-17				
Diesel Range Organics (C10-C28)	878	25.0	mg/kg	500	341	107	38-132	6.04	20	
Surrogate: n-Nonane	52.1		"	50.0		104	50-200			

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laboratory@envirotech-inc.com



XTO Energy Inc.
382 CR 3100
Aztec NM, 87410

Project Name: Romero Gas Com A #1A
Project Number: 98031-0528
Project Manager: Logan Hixon

Reported:
27-Jun-17 14:51

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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laboratory@envirotech-inc.com

•

Page 7 of 7

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

1073

Page 7 of 7

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

July 10, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L920454
Samples Received: 07/06/2017
Project Number: 30-045-25509
Description: Romero GC A #1

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

Entire Report Reviewed By:



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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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



60'-110' X3' L920454-01 Solid

Collected by
Kurt

Collected date/time
07/05/17 09:55

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	WG996310	1	07/07/17 09:31	07/07/17 09:40	MLW
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG996365	1	07/06/17 15:21	07/07/17 05:21	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG996297	1	07/06/17 21:36	07/07/17 15:47	KLM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
30-045-25509

SDG:
L920454

DATE/TIME:
07/10/17 13:10

PAGE:
3 of 12

CASE NARRATIVE

ONE LAB. NATIONWIDE.



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 Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

60'x110' X3'

Collected date/time: 07/05/17 09:55

SAMPLE RESULTS - 01

L920454

ONE LAB. NATIONWIDE



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	07/07/2017 09:40	WG996310

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.108	1	07/07/2017 05:21	WG996365
(S) o,a,a-Trifluorotoluene(FID)	104		77.0-120		07/07/2017 05:21	WG996365

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	27.8		4.32	1	07/07/2017 15:47	WG996297
C28-C40 Oil Range	10.3	<u>B</u>	4.32	1	07/07/2017 15:47	WG996297
(S) o-Terphenyl	90.2		18.0-148		07/07/2017 15:47	WG996297

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996310

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L920454-01](#)

Method Blank (MB)

(MB) R3231775-1 07/07/17 09:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L919427-07 Original Sample (OS) • Duplicate (DUP)

(OS) L919427-07 07/07/17 09:40 • (DUP) R3231775-3 07/07/17 09:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.1	85.4	1	0.374		5

Laboratory Control Sample (LCS)

(LCS) R3231775-2 07/07/17 09:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996365

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



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
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			77.0-120

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) <i>a,a,a</i> -Trifluorotoluene(FID)				107	107	77.0-120				

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	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.28	ND	5.38	5.20	85.7	82.9	1	10.0-147			3.33	30
(S) <i>a,a,a</i> -Trifluorotoluene(FID)					98.9	99.8		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996297

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



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	J	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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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		

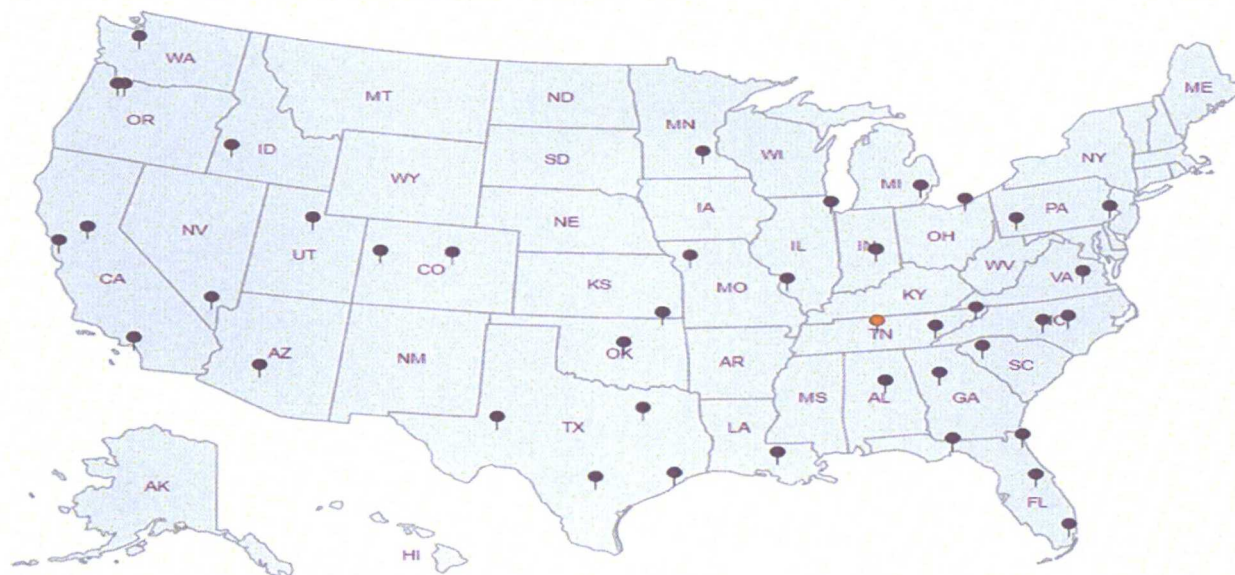
Third Party & Federal Accreditations

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 ^{n/a} 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:
XTO Energy - San Juan Division

PROJECT:
30-045-25509

SDG:
L920454

DATE/TIME:
07/10/17 13:10

PAGE:
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ESC LAB SCIENCES Cooler Receipt Form

Client: <u>XTOR/M</u>		SDG#	<u>L920454</u>
Cooler Received/Opened On: <u>7/6/17</u>		Temperature:	<u>34</u>
Received By: Marina Malone			
Signature: <u>Marina Malone</u>			
Receipt Check List		NP	Yes
COC Seal Present / Intact?		<input checked="" type="checkbox"/>	
COC Signed / Accurate?			<input checked="" type="checkbox"/>
Bottles arrive intact?			<input checked="" type="checkbox"/>
Correct bottles used?			<input checked="" type="checkbox"/>
Sufficient volume sent?			<input checked="" type="checkbox"/>
If Applicable			<input checked="" type="checkbox"/>
VOA Zero headspace?			
Preservation Correct / Checked?			

TD

July 10, 2017

XTO Energy - San Juan Division

Sample Delivery Group: L920454
Samples Received: 07/06/2017
Project Number: 30-045-25509
Description: Romero GC A #1

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

Entire Report Reviewed By:



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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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



60'-110' X3' L920454-01 Solid

Collected by
Kurt

Collected date/time
07/05/17 09:55

Received date/time
07/05/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG996310	1	07/07/17 09:31	07/07/17 09:40	MLW
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG996365	1	07/06/17 15:21	07/07/17 05:21	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG996297	1	07/06/17 21:36	07/07/17 15:47	KLM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
30-045-25509

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L920454

DATE/TIME:
07/10/17 13:10

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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 Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

60'x110' X3'

Collected date/time: 07/05/17 09:55

SAMPLE RESULTS - 01

L920454

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	07/07/2017 09:40	WG996310

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.108	1	07/07/2017 05:21	WG996365
(S) o,a,a-Trifluorotoluene(FID)	104		77.0-120		07/07/2017 05:21	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	27.8		4.32	1	07/07/2017 15:47	WG996297
C28-C40 Oil Range	10.3	<u>B</u>	4.32	1	07/07/2017 15:47	WG996297
(S) o-Terphenyl	90.2		18.0-148		07/07/2017 15:47	WG996297

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996310

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Method Blank (MB)

(MB) R3231775-1 07/07/17 09:40

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L919427-07 Original Sample (OS) • Duplicate (DUP)

(OS) L919427-07 07/07/17 09:40 • (DUP) R3231775-3 07/07/17 09:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.1	85.4	1	0.374		5

Laboratory Control Sample (LCS)

(LCS) R3231775-2 07/07/17 09:40

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996365

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



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
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			77.0-120

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) <i>a,a,a</i> -Trifluorotoluene(FID)				107	107	77.0-120				

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	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.28	ND	5.38	5.20	85.7	82.9	1	10.0-147			3.33	30
(S) <i>a,a,a</i> -Trifluorotoluene(FID)					98.9	99.8		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG996297

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

ONE LAB, NATIONWIDE.

L920454-01

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	J	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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**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**

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



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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		

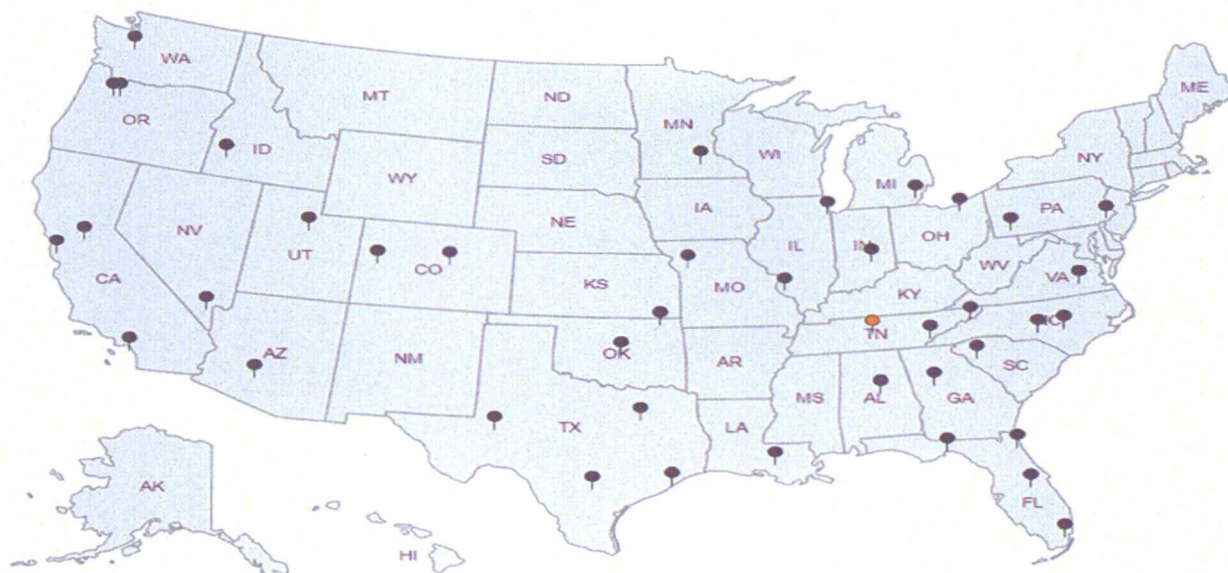
Third Party & Federal Accreditations

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 ⁶ Accreditation not applicable

Our Locations

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ACCOUNT:
XTO Energy - San Juan Division

PROJECT:
30-045-25509

SDG:
L920454

DATE/TIME:
07/10/17 13:10

PAGE:
10 of 12

ESC LAB SCIENCES Cooler Receipt Form

Client: <u>XTORNM</u>		SDG#	<u>L920454</u>	
Cooler Received/Opened On: <u>7/6/17</u>	Temperature:	<u>34</u>		
Received By: Marina Malone				
Signature: <u>Marina Malone</u>				
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		<input checked="" type="checkbox"/>		
COC Signed / Accurate?			<input checked="" type="checkbox"/>	
Bottles arrive intact?			<input checked="" type="checkbox"/>	
Correct bottles used?			<input checked="" type="checkbox"/>	
Sufficient volume sent?			<input checked="" type="checkbox"/>	
If Applicable			<input checked="" type="checkbox"/>	
VOA Zero headspace?				
Preservation Correct / Checked?				

TD

Hixon, Logan

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Friday, June 16, 2017 8:20 AM
To: Hixon, Logan
Cc: McDaniel, James; Hoekstra, Kurt; Bramwell, Chris; Weaver, John; Dawes, Thomas; Fields, Vanessa, EMNRD; Powell, Brandon, EMNRD
Subject: RE: Romero Gas Com A 1

Categories: External Sender

Logan,

OCD has reviewed XTO request for alternative closure standards received on June 14 2017.

- Sample area 61'x110' will need to be further remediation due the elevated levels of DRO.
- No further action will be required for sample areas labeled as 0'-60' and 110'-146'.

Please include this approval in your final C-141 and if you have any additional questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Hixon, Logan [mailto:Logan_Hixon@xtoenergy.com]
Sent: Wednesday, June 14, 2017 2:41 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: McDaniel, James <James_McDaniel@xtoenergy.com>; Hoekstra, Kurt <Kurt_Hoekstra@xtoenergy.com>; Bramwell, Chris <Chris_Bramwell@xtoenergy.com>; Weaver, John <John_Weaver@xtoenergy.com>; Dawes, Thomas <Thomas_Dawes@xtoenergy.com>
Subject: RE: Romero Gas Com A 1

Good Afternoon,

We began excavation on this site last week and continued yesterday. We have excavated to a depth of 1'-1.5' across the release area. We collected (3) three composite samples yesterday and received the attached sample results.

We would like to request closure with the sample results attached. The samples returned results of non-detect for benzene, BTEX, and GRO in all (3) three samples. The remaining constituents are DRO and MRO, which are believed to be non-mobile.

Thank you for your consideration on this request, and if you have any questions do not hesitate to contact us.

If you have any questions do not hesitate to contact us.

Thank You!

EHS Coordinator

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |

Home: 505-320-6133 | Logan.Hixon@xtoenergy.com

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From: Hixon, Logan

Sent: Tuesday, June 06, 2017 10:32 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Cc: McDaniel, James (James.McDaniel@xtoenergy.com) <James.McDaniel@xtoenergy.com>; Hoekstra, Kurt

<Kurt.Hoekstra@xtoenergy.com>; Bramwell, Chris (Chris.Bramwell@xtoenergy.com)

<Chris.Bramwell@xtoenergy.com>; Weaver, John (John.Weaver@xtoenergy.com) <John.Weaver@xtoenergy.com>;

Dawes, Thomas (Thomas.Dawes@xtoenergy.com) <Thomas.Dawes@xtoenergy.com>

Subject: Romero Gas Com A 1

Hello All,

This is to notify you of a release on the Romero Gas Com A 1 location. On May 30, 2017 it was discovered that the polish rod liner connection had mechanically backed off allowing for produced fluids to flow between the rod string and the liner. Approximately (9) nine barrels of fluids were lost. On May 30, 2017 (1) composite sample was collected from the impacted area. The surface sample returned results requiring soil removal at the surface. We would like to begin the soil remediation on Thursday June 8, 2017, at approximately 8:00 A.M. and collect closure samples on the same day.

The site was ranked a 20 pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to an estimated depth to groundwater less than 50 feet below ground surface. This will set the closure standards to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

This location has requirements that when entering the location as a non-XTO employee that you be escorted to the site off of the Sullivan road paved road. So if you will call me before you start into location, we will make sure an XTO representative is present to escort you to location.

Thank you for your consideration and if you have any questions do not hesitate to contact us at any time.

If you have any questions do not hesitate to contact us.

Thank You!

EHS Coordinator

Logan Hixon | 382 CR 3100 | Aztec, NM 87410 | ph: 505-333-3100 | Cell: 505-386 8018 |

Home: 505-320-6133 | Logan.Hixon@xtoenergy.com

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Romero Gas Com A 1

61'-110'x 6" wide x 3' deep

110'-146'x2'wide x1' deep

0'-60'x 6' wide (widest point) x 1' deep

Google earth