

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company XTO Energy Inc.	Contact Kim Champlin
Address #382 County Road 3100, Aztec, NM 87410	Telephone No. (505) 333-3100
Facility Name Pipkin EH CDP	Facility Type Gas Well

Surface Owner BLM	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter F	Section 12	Township 28N	Range 11W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36° 37.419 Longitude 107° 57.621

RCVD JUN 11 '10
OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release Condensate	Volume of Release Approx 68 bbl	Volume Recovered -Approx 40 bbl
Source of Release Tank overflowed	Date and Hour of Occurrence 03/02/09, time unknown	Date and Hour of Discovery 03/02/09 at 3:25 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell- OCD Mark Kelly- BLM	
By Whom? Kim Champlin	Date and Hour 03/03/09 at 2:15 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.* ☐ A dump at the EH Pipkin #8 F, which feeds into the CDP, quit working and sent all of the water in the tank to the CDP. The automation on the tank at the CDP did call out and the host system failed to send out any pages causing the tank to overflow. Vac trucks were dispatched immediately to recover any standing liquid. After calculating fluid production it was determined that 68 barrels of light condensate were released. 40 barrels were recovered and transferred back to the tank. The tank was set in a lined berm so a construction crew was dispatched. The tank and liner were washed and then the liner was pulled back. It was then discovered that the liner had several small holes in it and condensate could be seen under the liner

Describe Area Affected and Cleanup Action Taken.* ☐ The condensate was pulled and transferred back into the tank, 40 barrels. The liner in the berm was washed and pulled back revealing several small holes. Condensate could be seen on the ground. The tank was emptied and moved out of the berm. Construction crews began excavating the contaminated soil. Clean up is complete (documentation attached).

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>Kim Champlin</i>		OIL CONSERVATION DIVISION	
Printed Name: Kim Champlin		Approved by District Supervisor: <i>Brandon Powell</i> For: CP	
Title: Sr. Environmental Representative		Approval Date: 9/29/10	Expiration Date:
E-mail Address: Kim_Champlin@xtoenergy.com		Conditions of Approval:	
Date: 06/08/10 Phone: 505-333-3100		Attached ☐	

* Attach Additional Sheets If Necessary

28P1027232905

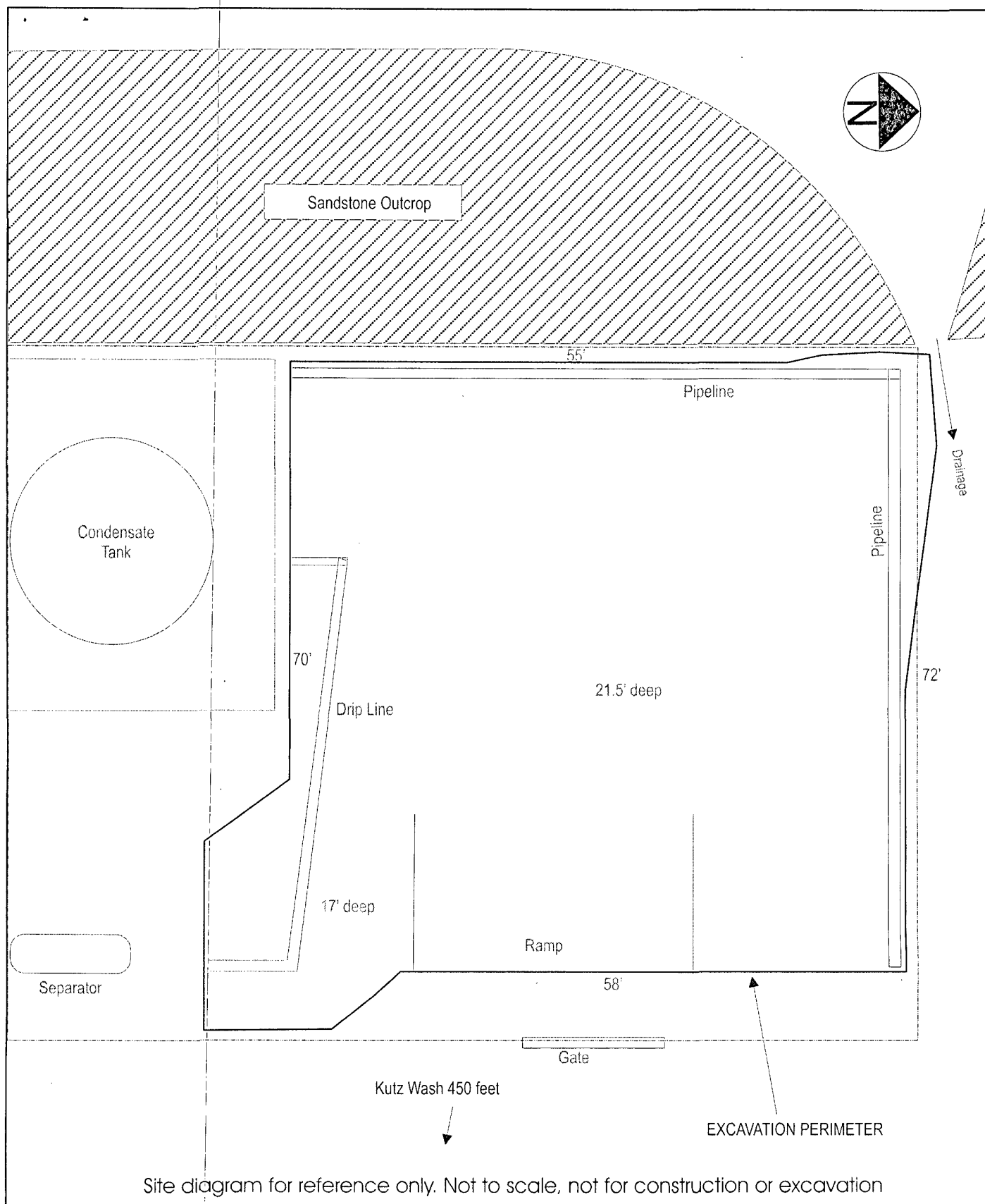
[Handwritten signature]

Clean up of the release began with excavation of soil directly beneath the existing tank berm after it was determined that the liner integrity had failed. During this phase the excavation reached a depth of approximately 16 ½ feet, where gray shale was encountered. Groundwater seeped into the pit overnight, along with traces of free-phase product. Further investigation revealed that the groundwater and product were confined along bedding planes within the shale. A vac truck was used to remove the standing water and the excavation resumed. A track hoe removed the underlying shale until visual inspection indicated that layers containing impacted groundwater had been removed.

Samples were collected throughout the excavation and digging was continued in directions where contamination was revealed. A table of sample results is attached. A total of 2,041 cubic yards of soil and 2,800 barrels of water were disposed of at licensed disposal facilities.

EH Pipkin CDP Soil Sampling Results					
Date	Location	Benzene mg/kg	BTEX mg/kg	TPH mg/kg	Notes
4/6/2009	South Wall	ND	ND	ND	
	East Wall	ND	ND	ND	
	Floor	ND	ND	ND	
	North Wall	ND	6.4	800	
	West Wall	ND	2.7	609	
	SE Corner	ND	15.4	6100	Continued Excavation
4/29/2009	North Wall	ND	ND	ND	
Resample	West Wall	ND	ND	ND	
5/18/2009	South Wall	ND	ND	ND	
SE Resample	SE Floor	ND	ND	ND	
	SE Corner	ND	ND	ND	

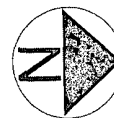
EH Pipkin CDP Groundwater Sampling Results					
Date	Location	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylene ug/L
3/20/2009	Center of Pit	45	45	34	570
5/18/2009	Center of Pit	2.9	6.4	4.1	60



 Lodestar Services, Inc PO Box 4465 Durango, CO 81302	Pipkin Compressor Station EXCAVATION DIAGRAM	PROJECT: Pipkin Compressor REVISED: 06/02/09	SITE MAP AND EXCAVATION PERIMETER 05/18/09
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Composite Sample Locations Shown with Arrows
 Bold Labeling Identifies Closure Samples
 B= Benzene
 T= Toluene
 E= Ethyl-Benzene
 X= Total Xylenes
 TPH= Total Petroleum Hydrocarbons
 Cl= Chloride
 ND = Not Detected
 Diagram for reference only. Not to scale.

West Wall Composite 2
 04/29/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=10 mg/kg



South Wall Composite
 04/06/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=8.1 mg/kg

South Wall
 05/18/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=1.7 mg/kg

SE Floor at 19'
 05/18/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=1.2 mg/kg

SE Corner
 04/06/09
 B=ND
 T=1.4 mg/kg
 E=ND
 X=14 mg/kg
 TPH=3100 mg/kg
 Cl=3.7 mg/kg

SE Corner Composite
 05/18/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=4.3 mg/kg

Floor Composite at 21.5' deep
 04/06/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND mg/kg
 Cl=1.6 mg/kg

West Wall Composite
 04/06/09
 B=ND
 T=ND
 E=ND
 X=2.7 mg/kg
 TPH=609 mg/kg
 Cl=4.5 mg/kg

North Wall Composite
 04/06/09
 B=ND
 T=ND
 E=ND
 X=6.4 mg/kg
 TPH=800 mg/kg
 Cl=6.0 mg/kg

North Wall Composite 2
 04/29/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=8.0 mg/kg

East Wall Composite
 04/06/09
 B=ND
 T=ND
 E=ND
 X=ND
 TPH=ND
 Cl=1.5 mg/kg

EXCAVATION PERIMETER

Lodestar Services, Inc
 PO Box 4465
 Durango, CO 81302

Pipkin Compressor Station
 SAMPLE LOCATIONS

PROJECT: Pipkin Compressor
 REVISED: 06/02/09

LABORATORY SAMPLE
 LOCATIONS AND
 RESULTS
 05/18/09

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Mar-09

CLIENT: XTO Energy
Lab Order: 0903339
Project: EH Pipken Compressor Station
Lab ID: 0903339-01

Client Sample ID: Pipken Compressor GW
Collection Date: 3/20/2009 1:37:00 PM
Date Received: 3/23/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	45	10		µg/L	10	3/28/2009 3:14:39 PM
Toluene	450	10		µg/L	10	3/28/2009 3:14:39 PM
Ethylbenzene	34	10		µg/L	10	3/28/2009 3:14:39 PM
Xylenes, Total	570	20		µg/L	10	3/28/2009 3:14:39 PM
Surr: 4-Bromofluorobenzene	94.2	65.9-130		%REC	10	3/28/2009 3:14:39 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: EH Pipken Compressor Station

Work Order: 0903339

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

Sample ID: 5ML RB MBLK Batch ID: R32981 Analysis Date: 3/28/2009 8:06:45 AM

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

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R32981 Analysis Date: 3/28/2009 4:15:28 PM

Benzene	19.97	µg/L	1.0	99.9	85.9	113
Toluene	20.99	µg/L	1.0	105	86.4	113
Ethylbenzene	20.80	µg/L	1.0	104	83.5	118
Xylenes, Total	61.56	µg/L	2.0	103	83.4	122

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R32981 Analysis Date: 3/28/2009 4:46:00 PM

Benzene	19.97	µg/L	1.0	99.8	85.9	113	0.0200	27
Toluene	20.71	µg/L	1.0	104	86.4	113	1.31	19
Ethylbenzene	20.59	µg/L	1.0	103	83.5	118	1.01	10
Xylenes, Total	60.22	µg/L	2.0	100	83.4	122	2.19	13

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

3/23/2009

Work Order Number 0903339

Received by: AT

Checklist completed by:

Signature



3/23/09
Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Client drop-off

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☐

Not Shipped ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

As per A.A. correct sample time is 13:37. at 3/23

Corrective Action

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-01

Client Sample ID: West Groundwater
Collection Date: 4/6/2009 3:40:00 PM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2009 2:27:09 PM
Benzene	10	1.0		µg/L	1	4/15/2009 2:27:09 PM
Toluene	180	5.0		µg/L	5	4/16/2009 1:14:47 PM
Ethylbenzene	12	1.0		µg/L	1	4/15/2009 2:27:09 PM
Xylenes, Total	180	2.0		µg/L	1	4/15/2009 2:27:09 PM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	1	4/15/2009 2:27:09 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-02

Client Sample ID: East Groundwater
Collection Date: 4/6/2009 3:42:00 PM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/15/2009 2:57:37 PM
Benzene	30	1.0		µg/L	1	4/15/2009 2:57:37 PM
Toluene	290	10		µg/L	10	4/16/2009 1:48:01 PM
Ethylbenzene	39	1.0		µg/L	1	4/15/2009 2:57:37 PM
Xylenes, Total	330	20		µg/L	10	4/16/2009 1:48:01 PM
Surr: 4-Bromofluorobenzene	108	65.9-130		%REC	1	4/15/2009 2:57:37 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-03

Client Sample ID: South Wall
Collection Date: 4/6/2009 3:15:00 PM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2009
Surr: DNOP	80.4	61.7-135		%REC	1	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2009 9:22:10 AM
Surr: BFB	97.5	58.8-123		%REC	1	4/11/2009 9:22:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/11/2009 9:22:10 AM
Benzene	ND	0.050		mg/Kg	1	4/11/2009 9:22:10 AM
Toluene	ND	0.050		mg/Kg	1	4/11/2009 9:22:10 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2009 9:22:10 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/11/2009 9:22:10 AM
Surr: 4-Bromofluorobenzene	103	66.8-139		%REC	1	4/11/2009 9:22:10 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	8.1	0.30		mg/Kg	1	4/15/2009 4:54:45 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-04

Client Sample ID: West Wall
Collection Date: 4/6/2009 3:20:00 PM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	350	10		mg/Kg	1	4/10/2009
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	4/10/2009
Surr: DNOP	87.8	61.7-135		%REC	1	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	89	50		mg/Kg	10	4/11/2009 10:22:48 AM
Surr: BFB	181	58.8-123	S	%REC	10	4/11/2009 10:22:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	10	4/11/2009 10:22:48 AM
Benzene	ND	0.50		mg/Kg	10	4/11/2009 10:22:48 AM
Toluene	ND	0.50		mg/Kg	10	4/11/2009 10:22:48 AM
Ethylbenzene	ND	0.50		mg/Kg	10	4/11/2009 10:22:48 AM
Xylenes, Total	2.7	1.0		mg/Kg	10	4/11/2009 10:22:48 AM
Surr: 4-Bromofluorobenzene	104	66.8-139		%REC	10	4/11/2009 10:22:48 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	4.5	0.30		mg/Kg	1	4/15/2009 5:12:10 PM

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

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-05

Client Sample ID: North Wall
Collection Date: 4/6/2009 3:13:00 PM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	480	10		mg/Kg	1	4/10/2009
Motor Oil Range Organics (MRO)	210	50		mg/Kg	1	4/10/2009
Surr: DNOP	90.6	61.7-135		%REC	1	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	130	100		mg/Kg	20	4/11/2009 10:53:07 AM
Surr: BFB	139	58.8-123	S	%REC	20	4/11/2009 10:53:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	4/11/2009 10:53:07 AM
Benzene	ND	1.0		mg/Kg	20	4/11/2009 10:53:07 AM
Toluene	ND	1.0		mg/Kg	20	4/11/2009 10:53:07 AM
Ethylbenzene	ND	1.0		mg/Kg	20	4/11/2009 10:53:07 AM
Xylenes, Total	6.4	2.0		mg/Kg	20	4/11/2009 10:53:07 AM
Surr: 4-Bromofluorobenzene	96.1	66.8-139		%REC	20	4/11/2009 10:53:07 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	6.0	1.5		mg/Kg	5	4/15/2009 5:29:34 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-06

Client Sample ID: East Wall
Collection Date: 4/6/2009 9:45:00 AM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2009
Surr: DNOP	84.7	61.7-135		%REC	1	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2009 11:23:32 AM
Surr: BFB	110	58.8-123		%REC	1	4/11/2009 11:23:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/11/2009 11:23:32 AM
Benzene	ND	0.050		mg/Kg	1	4/11/2009 11:23:32 AM
Toluene	ND	0.050		mg/Kg	1	4/11/2009 11:23:32 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2009 11:23:32 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/11/2009 11:23:32 AM
Surr: 4-Bromofluorobenzene	104	66.8-139		%REC	1	4/11/2009 11:23:32 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	1.5	0.30		mg/Kg	1	4/15/2009 5:46:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-07

Client Sample ID: SE Corner
Collection Date: 4/6/2009 3:25:00 PM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1600	100		mg/Kg	10	4/10/2009
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	4/10/2009
Surr: DNOP	0	61.7-135	S	%REC	10	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	400	100		mg/Kg	20	4/11/2009 11:54:09 AM
Surr: BFB	277	58.8-123	S	%REC	20	4/11/2009 11:54:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	2.0		mg/Kg	20	4/11/2009 11:54:09 AM
Benzene	ND	1.0		mg/Kg	20	4/11/2009 11:54:09 AM
Toluene	1.4	1.0		mg/Kg	20	4/11/2009 11:54:09 AM
Ethylbenzene	ND	1.0		mg/Kg	20	4/11/2009 11:54:09 AM
Xylenes, Total	14	2.0		mg/Kg	20	4/11/2009 11:54:09 AM
Surr: 4-Bromofluorobenzene	114	66.8-139		%REC	20	4/11/2009 11:54:09 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	3.7	1.5		mg/Kg	5	4/15/2009 6:04:23 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Apr-09

CLIENT: XTO Energy
Lab Order: 0904129
Project: EH Pipkin Compressor
Lab ID: 0904129-08

Client Sample ID: Floor
Collection Date: 4/6/2009 3:30:00 PM
Date Received: 4/8/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2009
Surr: DNOP	89.4	61.7-135		%REC	1	4/10/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2009 12:24:41 PM
Surr: BFB	118	58.8-123		%REC	1	4/11/2009 12:24:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	4/11/2009 12:24:41 PM
Benzene	ND	0.050		mg/Kg	1	4/11/2009 12:24:41 PM
Toluene	ND	0.050		mg/Kg	1	4/11/2009 12:24:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2009 12:24:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/11/2009 12:24:41 PM
Surr: 4-Bromofluorobenzene	95.5	66.8-139		%REC	1	4/11/2009 12:24:41 PM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	1.6	0.30		mg/Kg	1	4/15/2009 6:21:48 PM

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

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: EH Pipkin Compressor

Work Order: 0904129

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: MB-18826		MBLK			Batch ID: 18826	Analysis Date: 4/15/2009 5:53:11 AM			
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-18826		LCS			Batch ID: 18826	Analysis Date: 4/15/2009 6:10:36 AM			
Chloride	15.39	mg/Kg	0.30	103	90	110			
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-18804		MBLK			Batch ID: 18804	Analysis Date: 4/10/2009			
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-18804		LCS			Batch ID: 18804	Analysis Date: 4/10/2009			
Diesel Range Organics (DRO)	41.70	mg/Kg	10	83.4	64.6	116			
Sample ID: LCSD-18804		LCSD			Batch ID: 18804	Analysis Date: 4/10/2009			
Diesel Range Organics (DRO)	47.27	mg/Kg	10	94.5	64.6	116	12.5	17.4	
Method: EPA Method 8015B: Gasoline Range									
Sample ID: MB-18793		MBLK			Batch ID: 18793	Analysis Date: 4/11/2009 3:58:18 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-18793		LCS			Batch ID: 18793	Analysis Date: 4/11/2009 1:56:22 PM			
Gasoline Range Organics (GRO)	28.59	mg/Kg	5.0	110	64.4	133			
Sample ID: LCSD-18793		LCSD			Batch ID: 18793	Analysis Date: 4/11/2009 2:26:53 PM			
Gasoline Range Organics (GRO)	30.35	mg/Kg	5.0	117	69.5	120	5.97	11.6	
Method: EPA Method 8021B: Volatiles									
Sample ID: MB-18793		MBLK			Batch ID: 18793	Analysis Date: 4/11/2009 3:58:18 PM			
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.10						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-18793		LCS			Batch ID: 18793	Analysis Date: 4/11/2009 2:57:25 PM			
Methyl tert-butyl ether (MTBE)	1.184	mg/Kg	0.10	118	67.9	135			
Benzene	1.065	mg/Kg	0.050	104	78.8	132			
Toluene	1.032	mg/Kg	0.050	102	78.9	112			
Ethylbenzene	1.081	mg/Kg	0.050	108	69.3	125			
Xylenes, Total	3.228	mg/Kg	0.10	108	73	128			
Sample ID: LCSD-18793		LCSD			Batch ID: 18793	Analysis Date: 4/11/2009 3:27:49 PM			
Methyl tert-butyl ether (MTBE)	1.287	mg/Kg	0.10	129	67.9	135	8.33	28	
Benzene	1.098	mg/Kg	0.050	108	78.8	132	3.05	27	
Toluene	1.058	mg/Kg	0.050	105	78.9	112	2.49	19	
Ethylbenzene	1.117	mg/Kg	0.050	112	69.3	125	3.26	10	
Xylenes, Total	3.333	mg/Kg	0.10	111	73	128	3.22	13	

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: EH Pipkin Compressor

Work Order: 0904129

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

Sample ID: 5ML RB MBLK

Batch ID: R33261 Analysis Date: 4/15/2009 9:22:06 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5
Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	2.0

Sample ID: 100NG BTEX LCS

Batch ID: R33261 Analysis Date: 4/16/2009 4:50:43 AM

Methyl tert-butyl ether (MTBE)	18.77	µg/L	2.5	93.9	51.2	138
Benzene	20.72	µg/L	1.0	104	85.9	113
Toluene	21.35	µg/L	1.0	107	86.4	113
Ethylbenzene	20.68	µg/L	1.0	103	83.5	118
Xylenes, Total	60.64	µg/L	2.0	101	83.4	122

Sample ID: 100NG BTEX LCSD

Batch ID: R33261 Analysis Date: 4/16/2009 5:21:06 AM

Methyl tert-butyl ether (MTBE)	19.31	µg/L	2.5	96.5	51.2	138	2.80	28
Benzene	20.83	µg/L	1.0	104	85.9	113	0.539	27
Toluene	21.22	µg/L	1.0	106	86.4	113	0.601	19
Ethylbenzene	20.69	µg/L	1.0	103	83.5	118	0.0290	10
Xylenes, Total	61.03	µg/L	2.0	102	83.4	122	0.638	13

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

4/8/2009

Work Order Number 0904129

Received by: AT

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name Greyhound

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

Container/Temp Blank temperature?

1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record			
Client: <u>Kim Champlin</u> <u>XTO Energy</u> Mailing Address: <u>3822 R 3100</u> <u>Artesia, NM 87410</u> Phone #: <u>505 333 3207</u> email or Fax#: _____ QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation) ☐ Other _____ ☐ EDD (Type) _____			
Turn-Around Time: ☒ Standard ☐ Rush Project Name: <u>EIA Ripkin Compressor</u> Project #: _____ Project Manager: <u>Martin Nee</u> Sampler: <u>Ashley Ayer</u> For Ice ☐ For Vials ☐ For No. _____ Sample Temperature: _____ Preservative Type: _____ Container Type and #: _____ Sample Request ID: _____ Date: _____ Time: _____ Matrix: _____ Sample: _____ SEAL No: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____			
Date: <u>4-6-09</u> Time: <u>1540</u> Matrix: <u>water</u> Sample Request ID: <u>West Groundwater</u>	Date: <u>4-6-09</u> Time: <u>1542</u> Matrix: <u>water</u> Sample Request ID: <u>East Groundwater</u>	Date: <u>4-6-09</u> Time: <u>1515</u> Matrix: <u>soil</u> Sample Request ID: <u>South Wall</u>	Date: <u>4-6-09</u> Time: <u>1520</u> Matrix: <u>soil</u> Sample Request ID: <u>West Wall</u>
Date: <u>4-6-09</u> Time: <u>1513</u> Matrix: <u>soil</u> Sample Request ID: <u>North Wall</u>	Date: <u>4-6-09</u> Time: <u>1545</u> Matrix: <u>soil</u> Sample Request ID: <u>East Wall</u>	Date: <u>4-6-09</u> Time: <u>1525</u> Matrix: <u>soil</u> Sample Request ID: <u>SE Corner</u>	Date: <u>4-6-09</u> Time: <u>1530</u> Matrix: <u>soil</u> Sample Request ID: <u>Floor</u>
Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____
Date: <u>4-8-09</u> Time: <u>0715</u> Matrix: <u>Ashley & Ayer</u> Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____	Date: _____ Time: _____ Matrix: _____ Sample Request ID: _____

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc.

Date: 11-May-09

CLIENT:	XTO Energy	Client Sample ID:	North Wall Composite 2
Lab Order:	0904459	Collection Date:	4/29/2009 1:00:00 PM
Project:	Pipkin Compressor Stn.	Date Received:	4/30/2009
Lab ID:	0904459-01	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2009
Surr: DNOP	97.0	61.7-135		%REC	1	5/3/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2009 3:52:17 AM
Surr: BFB	102	58.8-123		%REC	1	5/6/2009 3:52:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	5/6/2009 3:52:17 AM
Toluene	ND	0.050		mg/Kg	1	5/6/2009 3:52:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2009 3:52:17 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2009 3:52:17 AM
Surr: 4-Bromofluorobenzene	109	66.8-139		%REC	1	5/6/2009 3:52:17 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	8.0	1.5		mg/Kg	5	5/6/2009 7:37:45 PM

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

Hall Environmental Analysis Laboratory, Inc.

Date: 11-May-09

CLIENT: XTO Energy
Lab Order: 0904459
Project: Pipkin Compressor Stn.
Lab ID: 0904459-02

Client Sample ID: West Wall Composite 2
Collection Date: 4/29/2009 1:03:00 PM
Date Received: 4/30/2009
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/3/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2009
Surr: DNOP	99.2	61.7-135		%REC	1	5/3/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2009 4:23:01 AM
Surr: BFB	102	58.8-123		%REC	1	5/6/2009 4:23:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	5/6/2009 4:23:01 AM
Toluene	ND	0.050		mg/Kg	1	5/6/2009 4:23:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2009 4:23:01 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2009 4:23:01 AM
Surr: 4-Bromofluorobenzene	108	66.8-139		%REC	1	5/6/2009 4:23:01 AM
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	10	1.5		mg/Kg	5	5/6/2009 8:12:34 PM

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

Page 2 of 2

QA/QC SUMMARY REPORT

Client: XTO Energy
Project: Pipkin Compressor Stn.

Work Order: 0904459

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: MB-19035		MBLK			Batch ID: 19035	Analysis Date: 5/6/2009 2:41:48 PM			
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-19035		LCS			Batch ID: 19035	Analysis Date: 5/6/2009 2:59:13 PM			
Chloride	15.22	mg/Kg	0.30	101	90	110			
Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-19004		MBLK			Batch ID: 19004	Analysis Date: 5/3/2009			
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-19004		LCS			Batch ID: 19004	Analysis Date: 5/3/2009			
Diesel Range Organics (DRO)	45.59	mg/Kg	10	91.2	64.6	116			
Sample ID: LCSD-19004		LCSD			Batch ID: 19004	Analysis Date: 5/3/2009			
Diesel Range Organics (DRO)	38.78	mg/Kg	10	77.6	64.6	116	16.1	17.4	
Method: EPA Method 8015B: Gasoline Range									
Sample ID: 0904459-02A MSD		MSD			Batch ID: 18993	Analysis Date: 5/6/2009 6:25:29 AM			
Gasoline Range Organics (GRO)	28.19	mg/Kg	5.0	110	69.5	120	17.2	11.6	R
Sample ID: MB-18993		MBLK			Batch ID: 18993	Analysis Date: 5/6/2009 7:57:09 AM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-18993		LCS			Batch ID: 18993	Analysis Date: 5/6/2009 6:55:54 AM			
Gasoline Range Organics (GRO)	30.60	mg/Kg	5.0	118	64.4	133			
Sample ID: 0904459-02A MS		MS			Batch ID: 18993	Analysis Date: 5/6/2009 3:08:34 PM			
Gasoline Range Organics (GRO)	28.25	mg/Kg	5.0	110	69.5	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Pipkin Compressor Stn.

Work Order: 0904459

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

Sample ID: 0904459-01A MSD		MSD		Batch ID: 18993		Analysis Date: 5/6/2009 5:24:19 AM		
Benzene	0.9058	mg/Kg	0.050	89.9	78.8	132	1.57	27
Toluene	0.9021	mg/Kg	0.050	90.2	78.9	112	2.37	19
Ethylbenzene	0.9632	mg/Kg	0.050	96.3	69.3	125	3.83	10
Xylenes, Total	2.886	mg/Kg	0.10	96.2	73	128	5.00	13

Sample ID: MB-18993

Benzene	ND	mg/Kg	0.050
Toluene	ND	mg/Kg	0.050
Ethylbenzene	ND	mg/Kg	0.050
Xylenes, Total	ND	mg/Kg	0.10

Sample ID: LCS-18993

Benzene	0.9689	mg/Kg	0.050	94.4	78.8	132
Toluene	1.001	mg/Kg	0.050	96.6	78.9	112
Ethylbenzene	1.043	mg/Kg	0.050	104	69.3	125
Xylenes, Total	3.132	mg/Kg	0.10	104	73	128

Sample ID: 0904459-01A MS

Benzene	0.9201	mg/Kg	0.050	91.3	78.8	132
Toluene	0.9237	mg/Kg	0.050	92.4	78.9	112
Ethylbenzene	1.001	mg/Kg	0.050	100	69.3	125
Xylenes, Total	3.034	mg/Kg	0.10	101	73	128

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

4/30/2009

Work Order Number 0904459

Received by: ARS

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐ Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
Container/Temp Blank temperature?	6°	<6° C Acceptable If given sufficient time to cool.	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-09

CLIENT: XTO Energy

Client Sample ID: SE Corner Composite

Lab Order: 0905353

Collection Date: 5/18/2009 2:10:00 PM

Project: XTO Eh Pipkin Compressor Station Excavation

Date Received: 5/20/2009

Lab ID: 0905353-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/21/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/21/2009
Surr: DNOP	97.6	61.7-135		%REC	1	5/21/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2009 3:46:43 PM
Surr: BFB	85.0	58.8-123		%REC	1	5/28/2009 3:46:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	5/28/2009 3:46:43 PM
Toluene	ND	0.050		mg/Kg	1	5/28/2009 3:46:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2009 3:46:43 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2009 3:46:43 PM
Surr: 4-Bromofluorobenzene	86.2	66.8-139		%REC	1	5/28/2009 3:46:43 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	4.3	0.30		mg/Kg	1	5/26/2009 7:12:05 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-09

CLIENT:	XTO Energy	Client Sample ID:	South Wall Composite
Lab Order:	0905353	Collection Date:	5/18/2009 2:30:00 PM
Project:	XTO Eh Pipkin Compressor Station Excavation	Date Received:	5/20/2009
Lab ID:	0905353-02	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/21/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/21/2009
Surr: DNOP	93.9	61.7-135		%REC	1	5/21/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2009 4:17:09 PM
Surr: BFB	96.4	58.8-123		%REC	1	5/28/2009 4:17:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	5/28/2009 4:17:09 PM
Toluene	ND	0.050		mg/Kg	1	5/28/2009 4:17:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2009 4:17:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2009 4:17:09 PM
Surr: 4-Bromofluorobenzene	97.7	66.8-139		%REC	1	5/28/2009 4:17:09 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1.7	0.30		mg/Kg	1	5/26/2009 8:21:43 PM

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-09

CLIENT: XTO Energy **Client Sample ID:** Floor Composite
Lab Order: 0905353 **Collection Date:** 5/18/2009 2:37:00 PM
Project: XTO Eh Pipkin Compressor Station Excavation **Date Received:** 5/20/2009
Lab ID: 0905353-03 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/21/2009
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/21/2009
Surr: DNOP	96.8	61.7-135		%REC	1	5/21/2009
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2009 4:47:31 PM
Surr: BFB	88.5	58.8-123		%REC	1	5/28/2009 4:47:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	5/28/2009 4:47:31 PM
Toluene	ND	0.050		mg/Kg	1	5/28/2009 4:47:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2009 4:47:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2009 4:47:31 PM
Surr: 4-Bromofluorobenzene	91.7	66.8-139		%REC	1	5/28/2009 4:47:31 PM
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1.2	0.30		mg/Kg	1	5/26/2009 8:56:32 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-09

CLIENT:	XTO Energy	Client Sample ID:	Eh Pipkin Compressor Excavation
Lab Order:	0905353	Collection Date:	5/18/2009 3:12:00 PM
Project:	XTO Eh Pipkin Compressor Station Excavation	Date Received:	5/20/2009
Lab ID:	0905353-04	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	2.9	1.0		µg/L	1	5/30/2009 1:00:39 PM
Toluene	6.4	1.0		µg/L	1	5/30/2009 1:00:39 PM
Ethylbenzene	4.1	1.0		µg/L	1	5/30/2009 1:00:39 PM
Xylenes, Total	60	2.0		µg/L	1	5/30/2009 1:00:39 PM
Surr: 4-Bromofluorobenzene	96.4	65.9-130		%REC	1	5/30/2009 1:00:39 PM

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-09

CLIENT: XTO Energy **Client Sample ID:** TRIP BLANK
Lab Order: 0905353 **Collection Date:**
Project: XTO Eh Pipkin Compressor Station Excavation **Date Received:** 5/20/2009
Lab ID: 0905353-05 **Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	1.0		µg/L	1	5/29/2009 10:18:47 PM
Toluene	ND	1.0		µg/L	1	5/29/2009 10:18:47 PM
Ethylbenzene	ND	1.0		µg/L	1	5/29/2009 10:18:47 PM
Xylenes, Total	ND	2.0		µg/L	1	5/29/2009 10:18:47 PM
Surr: 4-Bromofluorobenzene	76.7	65.9-130		%REC	1	5/29/2009 10:18:47 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

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QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: XTO Eh Pipkin Compressor Station Excavation

Work Order: 0905353

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions									
Sample ID: 0905353-01AMSD		MSD			Batch ID: 19194	Analysis Date: 5/26/2009 8:04:18 PM			
Chloride	18.38	mg/Kg	0.30	93.6	75	125	3.07	20	
Sample ID: MB-19194		MBLK			Batch ID: 19194	Analysis Date: 5/26/2009 6:37:16 PM			
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-19194		LCS			Batch ID: 19194	Analysis Date: 5/26/2009 6:54:41 PM			
Chloride	14.67	mg/Kg	0.30	97.8	90	110			
Sample ID: 0905353-01AMS		MS			Batch ID: 19194	Analysis Date: 5/26/2009 7:46:54 PM			
Chloride	18.95	mg/Kg	0.30	97.4	75	125			

Method: EPA Method 8015B: Diesel Range Organics									
Sample ID: MB-19148		MBLK			Batch ID: 19148	Analysis Date: 5/21/2009			
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-19148		LCS			Batch ID: 19148	Analysis Date: 5/21/2009			
Diesel Range Organics (DRO)	52.42	mg/Kg	10	105	64.6	116			
Sample ID: LCSD-19148		LCSD			Batch ID: 19148	Analysis Date: 5/21/2009			
Diesel Range Organics (DRO)	53.43	mg/Kg	10	107	64.6	116	1.90	17.4	

Method: EPA Method 8015B: Gasoline Range									
Sample ID: MB-19152		MBLK			Batch ID: 19152	Analysis Date: 5/28/2009 7:20:01 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: 5ML RB		MBLK			Batch ID: R33878	Analysis Date: 5/29/2009 9:06:58 AM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-19152		LCS			Batch ID: 19152	Analysis Date: 5/28/2009 5:18:00 PM			
Gasoline Range Organics (GRO)	26.89	mg/Kg	5.0	104	64.4	133			
Sample ID: 2.5UG GRO LCS		LCS			Batch ID: R33878	Analysis Date: 5/29/2009 7:15:44 PM			
Gasoline Range Organics (GRO)	27.48	mg/Kg	5.0	110	64.4	133			
Sample ID: LCSD-19152		LCSD			Batch ID: 19152	Analysis Date: 5/28/2009 5:48:26 PM			
Gasoline Range Organics (GRO)	27.23	mg/Kg	5.0	106	69.5	120	1.26	11.6	
Sample ID: 2.5UG GRO LCSD		LCSD			Batch ID: R33878	Analysis Date: 5/29/2009 7:46:11 PM			
Gasoline Range Organics (GRO)	27.21	mg/Kg	5.0	109	69.5	120	0.987	11.6	

Qualifiers:

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

Page 1

QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: XTO Eh Pipkin Compressor Station Excavation

Work Order: 0905353

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: MB-19152		MBLK		Batch ID: 19152		Analysis Date: 5/28/2009 7:20:01 PM			
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
Sample ID: LCS-19152		LCS		Batch ID: 19152		Analysis Date: 5/28/2009 6:18:56 PM			
Benzene	1.042	mg/Kg	0.050	102	78.8	132			
Toluene	1.062	mg/Kg	0.050	104	78.9	112			
Ethylbenzene	1.068	mg/Kg	0.050	107	69.3	125			
Xylenes, Total	3.196	mg/Kg	0.10	107	73	128			
Sample ID: LCSD-19152		LCSD		Batch ID: 19152		Analysis Date: 5/28/2009 6:49:30 PM			
Benzene	1.012	mg/Kg	0.050	99.3	78.8	132	2.92	27	
Toluene	1.011	mg/Kg	0.050	99.1	78.9	112	4.94	19	
Ethylbenzene	1.034	mg/Kg	0.050	103	69.3	125	3.26	10	
Xylenes, Total	3.104	mg/Kg	0.10	103	73	128	2.95	13	
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		MBLK		Batch ID: R33878		Analysis Date: 5/29/2009 9:06:58 AM			
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		LCS		Batch ID: R33878		Analysis Date: 5/30/2009 5:24:25 AM			
Benzene	19.92	µg/L	1.0	99.6	85.9	113			
Toluene	19.82	µg/L	1.0	99.1	86.4	113			
Ethylbenzene	20.29	µg/L	1.0	101	83.5	118			
Xylenes, Total	60.55	µg/L	2.0	101	83.4	122			
Sample ID: 100NG BTEX LCSD		LCSD		Batch ID: R33878		Analysis Date: 5/30/2009 5:54:51 AM			
Benzene	20.56	µg/L	1.0	103	85.9	113	3.18	27	
Toluene	20.46	µg/L	1.0	102	86.4	113	3.14	19	
Ethylbenzene	20.86	µg/L	1.0	104	83.5	118	2.79	10	
Xylenes, Total	62.33	µg/L	2.0	104	83.4	122	2.90	13	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

5/20/2009

Work Order Number 0905353

Received by: TLS

Checklist completed by:

Signature

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

4.5°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

