



September 22, 2010

Mr. Sam Montoya
XTO Energy
21603 Highway 12
Trinidad, CO 81082

**RE: Soil Investigation Results
Huber-Burkett #1-25
La Plata County, Colorado**

Dear Mr. Montoya:

LT Environmental, Inc. (LTE) is pleased to provide XTO Energy (XTO) with this letter summarizing the results of soil investigation activities conducted at the Huber-Burkett #1-25 (Site) on August 16, 2010 (Figure 1). LTE conducted the investigation at the request of XTO as part of the closure of a former pit used as secondary containment for a produced water tank. The pit was removed as part of tank battery upgrade activities.

SOIL SAMPLING

On August 16, 2010, LTE collected two soil samples at the Site. A composite soil sample (labeled "Huber-Burkett #1-25") was collected from the earthen floor and walls of the pit. The depth of the pit floor was approximately 6 feet below ground surface (bgs). One background sample (labeled "Huber-Burkett #1-25 BG") was collected immediately adjacent to the well pad. Sample locations are shown on Figure 2.

The soil samples were placed in clean Teflon-lined glass jars and Ziploc bags and stored in a cooler with ice in the field. The samples were submitted to Oxidor Laboratories (Oxidor) of Plano, Texas. The pit soil sample was submitted for the analysis of electrical conductivity (EC), sodium absorption ratio (SAR), pH, and total metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc) in soils. The metals analysis was performed using EPA Method 610B, with the exception of mercury which was analyzed by the EPA Method 7471A. The background sample was analyzed for arsenic only.

RESULTS

Tables 1 and 2 present the soil analytical results and the complete laboratory analytical report is included as Appendix 1. Analytical results for pH, EC, SAR, and metals indicate that the values measured in the pit sample do not exceed the regulatory levels defined in the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1, with the exception of arsenic. Arsenic was detected in the pit sample at a concentration of 11.4 milligrams per kilogram (mg/kg). The background sample indicated that arsenic was detected at a concentration of 3.53 mg/kg.



CONCLUSIONS

Soil sample analytical results indicate there are no impacts above the regulatory levels listed in COGCC Table 910-1, except for elevated arsenic concentrations. A background sample collected at the Site contained an arsenic concentration of 3.53 mg/kg, while the pit sample contained 11.4 mg/kg of arsenic. The soil should be remediated by scraping the sidewalls and floor of the pit, then mixing the impacted soil with a load of clean fill to decrease arsenic concentrations. Additional sampling should be conducted to confirm arsenic levels are within background range for site conditions. Once arsenic levels are decreased to an appropriate concentration, the soil can remain in place.

LTE appreciates the opportunity to provide environmental services to XTO. If you have any questions regarding this report, please contact us at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads "Travis Laverty".

Travis Laverty
Staff Geologist

A handwritten signature in black ink that reads "Ashley L. Ager".

Ashley L. Ager, M.S.
Senior Geologist/Office Manager

Attachments (6)

Figure 1 – Site Location Map

Figure 2 – Site Map

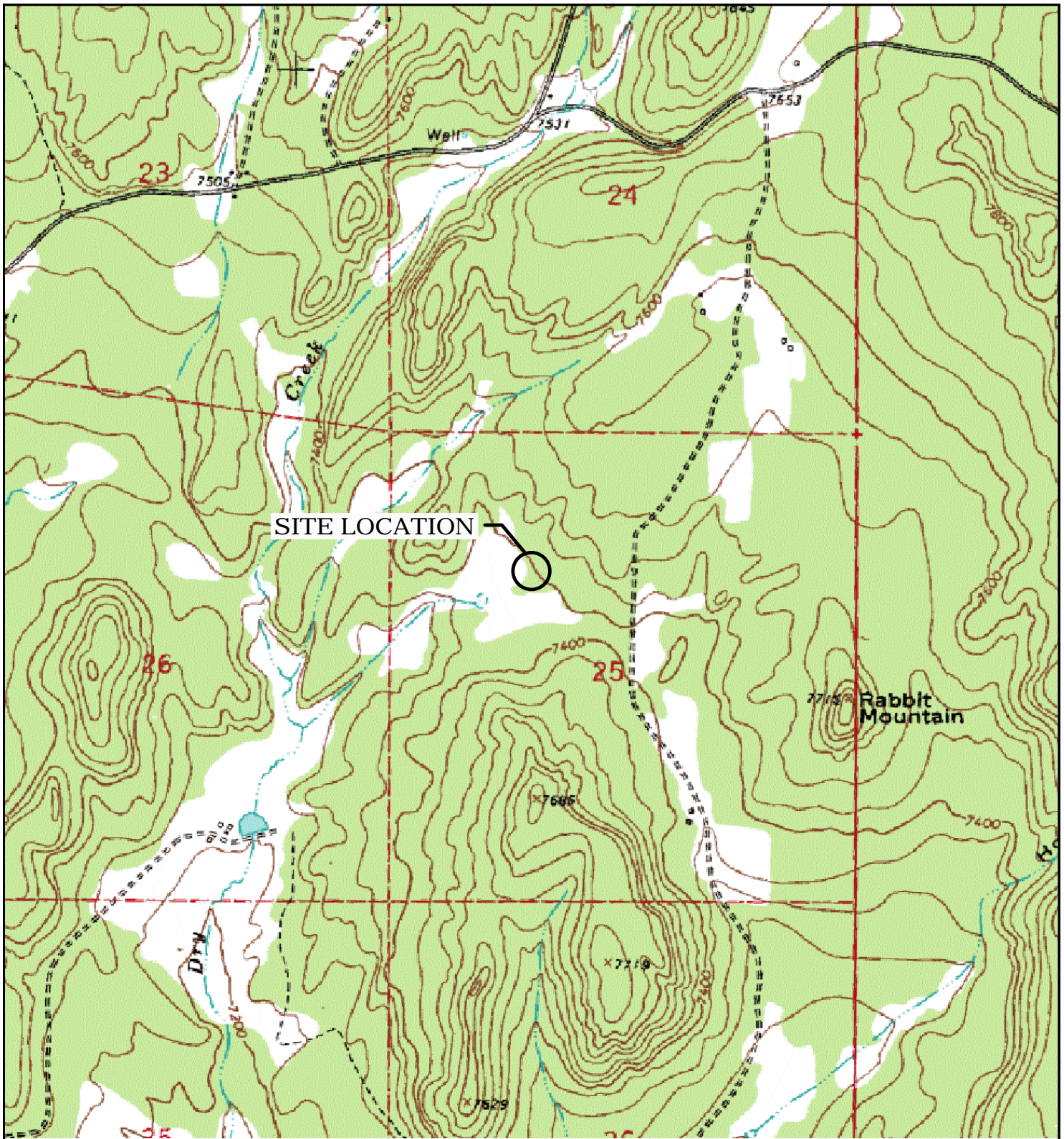
Table 1 – Soil Analytical Results –pH, EC, SAR

Table 2 – Soil Analytical Results – Metals

Table 3 – Soil Analytical Results - TPH

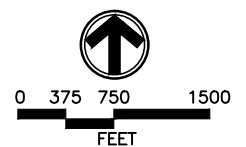
Appendix 1 – Laboratory Analytical Report

FIGURES



LEGEND

○ SITE LOCATION



SOURCE: TOPOZONE.COM
USGS 7.5' QUADRANGLE
(NAD27)

FIGURE 1
SITE LOCATION MAP
HUBER-BURKETT
SENW 25-T35N-R08W
LA PLATA COUNTY, COLORADO
XTO ENERGY



ACCESS ROAD

FORMER PIT
LOCATION

X

WOODLANDS

WOODLANDS

M

PUMP JACK



LEGEND

- SOIL SAMPLE LOCATION
- X BACKGROUND SAMPLE
- ⊙ WELL HEAD
- M METER RUN



NOT TO SCALE

FIGURE 2
SITE MAP
HUBER-BURKETT
SENE 25-T35N-R08W
LA PLATA COUNTY, COLORADO
XTO ENERGY, INC.



huber-burkett/XT0100901

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS - pH, EC, and SAR
HUBER-BURKETT #1-25 (API #05-067-07031)
LA PLATA COUNTY, COLORADO
XTO ENERGY, INC.

Sample ID	Sample Depth	Sample Date	pH	EC (mmhos/cm)	Calcium (meq/L)	Magnesium (meq/L)	Sodium (meq/L)	SAR
Huber-Burkett #1-25	6'	8/16/2010	8.4	0.14	12.6	2.86	52.2	3.44
Huber-Burkett #1-25 BG	0"-3"	8/16/2010	NA	NA	NA	NA	NA	NA
COGCC Concentration Level*			6-9	4	--	--	--	12

Notes:

meq/L - milliequivalents per liter

SAR - Sodium Adsorption Ratio

EC - electrical conductivity

ft bgs - feet below ground surface

NA - not analyzed

*Colorado Oil and Gas Conservation Commission Concentration Level derived from Table 910-1

TABLE 2
SOIL ANALYTICAL RESULTS - METALS
HUBER-BURKETT #1-25 (API #05-067-07031)
LA PLATA COUNTY, COLORADO
XTO ENERGY, INC.

Analyte	Sample ID		COGCC Concentration Level* (mg/kg)
	Huber-Burkett #1-25 (mg/kg)	Huber-Burkett #1-25 BG (mg/kg)	
Arsenic	11.4	3.53	0.39
Barium	318	NA	15,000
Cadmium	0.183	NA	70
Chromium	6.71	NA	120,000
Copper	15.7	NA	3,100
Lead	13.5	NA	400
Mercury	0.0394	NA	23
Nickel	8.16	NA	1,600
Selenium	1.06	NA	390
Silver	<0.1	NA	390
Zinc	61.8	NA	23,000

Notes:

mg/kg - milligrams per kilogram

< - less than the stated laboratory method detection limit

* - Colorado Oil and Gas Conservation Commission Concentration Level derived from Table 910-1

NA - not analyzed

APPENDIX 1
LABORATORY ANALYTICAL REPORT



Wednesday, September 08, 2010

LT Environmental

Julie Linn

2243 Main Ave, Suite 3

Durango, CO 81301

Tel: (970) 903-9197 Fax: (970) 385-1873

jlinn@ltenv.com

Re: Project Name: XTO CO Soil

Project Number: XTO1009

Project Location: Colorado

Oxidor received 2 solid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
1009055-001	Lincoln Trust Pruski #3-22 Background	Solid	8/16/2010 11:06	Arsenic, Dry Weight
1009055-002	Huber-Burkett #1-25 Background	Solid	8/16/2010 10:24	Arsenic, Dry Weight

Respectfully submitted,



Charles Brungardt

President

LT Environmental

Julie Linn

Analytical Report

Project Name: **XTO CO Soil**Customer Sample ID: **Huber-Burkett #1-25 Background**

Oxidor Sample ID: 1009055-002

Matrix: **Solid**

Sample Received: 9/2/2010

Sample Collected: **8/16/2010 10:24**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
% Solids	0.1	0.1	90.4	%	09/02/10 13:52	Dry Weight	J.M.	
Metals								
<i>Digested by method 3050B on 09/03/10 at 14:20</i>								
Arsenic	0.5	0.553	3.53	mg/Kg	09/03/10 20:20	6020	K.O.	

LT Environmental
Julie Linn

Sample Cross Reference

Project Name: **XTO CO Soil**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
Lincoln Trust Pruski #3-22	1009055-001	Dry Weight Arsenic	Dry Weight 6020	DW___15920_S META_05431_S
Huber-Burkett #1-25 Back	1009055-002	Dry Weight Arsenic	Dry Weight 6020	DW___15920_S META_05431_S

LT Environmental
Julie Linn

QC Summary

Project Name: **XTO CO Soil**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID DW__15920_S									
Replicate	% Solids	99.8 %	99.9 %				0.1%	0-20%	
QCBatchID META_05431_S									
Blank	Arsenic	ND mg/Kg							
LCS	Arsenic	0.915 mg/L		1 mg/L	92%	85-115%			
LCSD	Arsenic	0.964 mg/L		1 mg/L	96%	85-115%	5.2%	0-20%	
MS	Arsenic	50.2 mg/Kg	3.28 mg/Kg	50 mg/Kg	94%	80-120%			
MSD	Arsenic	51.2 mg/Kg	3.28 mg/Kg	50 mg/Kg	96%	80-120%	2.0%	0-20%	

LT Environmental

Julie Linn

Case Narrative

Project Name: **XTO CO Soil**

ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

This report is intended only for the use of LT Environmental and may contain information that is privileged and confidential. It may not be reproduced in full (or in part) without the expressed written permission of LT Environmental and Oxidor Laboratories, LLC.

Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

LT Environmental

Julie Linn

Sample Preservation VerificationProject Name: **XTO CO Soil**Receipt temp: **3.4 °C on Ice**All applicable VOA's received free of headspace: **N/A**Receipt method: **Additional Analysis**Custody seal intact: **Not Present**All samples / labels received intact: **Yes**Customer Sample ID: **Lincoln Trust Pruski #3-22 Background**Collected By: **Devin Henemann**Oxidor Sample ID: **1009055-001**Collector Affiliation: **LT Environmental**Collected: **08/16/10 11:06**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **Huber-Burkett #1-25 Background**Collected By: **Devin Henemann**Oxidor Sample ID: **1009055-002**Collector Affiliation: **LT Environmental**Collected: **08/16/10 10:24**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

L.J.

H.Y.



Chain of Custody

PROJECT DESCRIPTION: XTO CO Soil

OXIDOR Laboratories, LLC
1825 East Plano Parkway #160
Plano, TX 75074-8570
P 972 424 6422 F 972 424 6508
customerservice@oxidor.com

Chain of Custody Record

Page ____ of ____

Send Report To		Project / Report Information	
Company Name LT Environmental		Circle Requested Turn Around Time (Less than 2 Days must be verified with lab) 7-10 Days 5-7 Days RUSH 3-4 Days 2 Days ASAP	
Address 2243 Main Ave, Suite 3		Project Name XTO CO Soil	
City Durango State CO Zip 81301		Project Location Colorado	
Contact Name Julie Linn		Project # XTO 1009	
Contact Email jlinn@ltenv.com		Sampler Name Julie Linn	
Phone 970 903 9197 Fax 970 385 1873		Sampler Company LTE	
Send Invoiced To (Only if Different from above)		Matrix Codes	
Company Name		L - Liquid S - Solid	
Address		W - Wipes A - Air	
City		Preservation Codes	
State		1 - None 4 - HCl	
Zip		2 - HNO ₃ 5 - NaOH	
Contact Name		3 - H ₂ SO ₄ 6 - Ice	
Phone		7 - Other	
Fax		Container Codes	
		P - Plastic G - Glass	
		O - Other	
		Special Instructions *	
		BTEX 8021 NO MTBE	
		TPH 805 NO MRO	
		TABLE 910 NO Boron (See Attached)	
		*Please confirm conditional requests prior to additional analysis	
		Requested Analysis	
		PH, SAR, EC, BTEX 8021, BTEX 805, TPH 805, AS, Total Solids / Dry Weight, Laboratory Review Checklist, Chromatograms / Data Pages	

OXIDOR Order ID	Customer Sample ID	Sample Info		Matrix	# of Containers	Container Type	Pres Code	Temp / (Grab /Chill) / (Grab /Parts Interval)	Hold	Requested Analysis										Total Solids / Dry Weight	Laboratory Review Checklist			
		Date	Time							PH, SAR, EC	BTEX 8021	BTEX 805	TPH 805	AS	Total Solids / Dry Weight	Laboratory Review Checklist								
1009055																								
-001	1 DURANGO COMPRESSOR STATION	8-16-10	0951	S	3	G	6																	
-002	2 HUBER-BURKETT #1-25	8-16-10	10:24	S	3	G	6																	
-003	3 LEAVEN TRUST PLOT #3-22	8-16-10	11:06	S	3	G	6																	
-004	4 FINNEY #5-12U	8-16-10	11:50	S	3	G	6																	
-005	5 FINNEY #5-12U	8-16-10	11:50	S	1	G	6																	
-006	6 LINCOLN TRUST PLOT #1-25	8-16-10	11:06	S	1	G	6																	
-007	7 HUBER-BURKETT #1-25	8-16-10	10:24	S	1	G	6																	
-008	8 DURANGO COMPRESSOR STATION	8-16-10	0951	S	1	G	6																	
	9 Background																							
	10																							
	11																							
	12																							
	13																							
	14																							
	15																							

Relinquished by X	Affiliation LT	Date 8/16/10	Time 1552	Received by X	Affiliation LT	Date 8/16/10	Time 1552
Relinquished by X	Affiliation LT	Date 8/16/10	Time 1552	Received by X	Affiliation LT	Date 8/16/10	Time 1552
Relinquished by X	Affiliation LT	Date 8/16/10	Time 1552	Received by X	Affiliation LT	Date 8/16/10	Time 1552
Relinquished by X	Affiliation LT	Date 8/16/10	Time 1552	Received by X	Affiliation LT	Date 8/16/10	Time 1552

Submission of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
OXIDOR cannot accept verbal changes to this document. Please fax or email written modifications.

Temp at Receipt 34 °C

Chain of Custody

PROJECT DESCRIPTION: **XTO CO Soil**

Leslie Jones

1009055

From: Travis Lavery [tlavery@ltenv.com]
Sent: Thursday, September 02, 2010 11:22 AM
To: CustomerService
Cc: 'Ashley Ager'; 'Julie Linn'
Subject: Order ID: 1008302

Hello,

We would like to run background samples that are currently on hold for Oxidor Sample ID: 1008302-002 and 1008302-003 for Arsenic Only.

Thanks,

Travis Lavery

LTE

Tuesday, August 24, 2010

LT Environmental

Julie Linn

2243 Main Ave, Suite 3

Durango, CO 81301

Tel: (970) 903-9197 Fax: (970) 385-1873

jlinn@ltenv.com

Re: Project Name: XTO CO Soil

Project Number: XTO1009

Project Location: Colorado

Oxidor received 8 solid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
1008302-001	Durango Compressor Station	Solid	8/16/2010 09:51	Arsenic, Barium, BTEX, Cadmium, Chromium, Dry Weight, Lead, Mercury, Paint Filter Test, Selenium, Silver, Total Petroleum Hydrocarbons (DRO), Total Petroleum Hydrocarbons (GRO)
1008302-002	Huber-Burkett #1-25	Solid	8/16/2010 10:24	Arsenic, Barium, Cadmium, Calcium, Extractable, Chromium, Conductivity, Copper, Dry Weight, Lead, Magnesium, Extractable, Mercury, Nickel, pH, SAR, Extraction, Selenium, Silver, Sodium Adsorption Ratio (SAR), Sodium, Extractable, Zinc
1008302-003	Lincoln Trust Pruski #3-22	Solid	8/16/2010 11:06	Arsenic, Barium, Cadmium, Calcium, Extractable, Chromium, Conductivity, Copper, Dry Weight, Lead, Magnesium, Extractable, Mercury, Nickel, pH, SAR, Extraction, Selenium, Silver, Sodium Adsorption Ratio (SAR), Sodium, Extractable, Zinc
1008302-004	Finney #5-12U	Solid	8/16/2010 11:50	Arsenic, Barium, BTEX, Cadmium, Chromium, Dry Weight, Lead, Mercury, Paint Filter Test, Selenium, Silver, Total Petroleum Hydrocarbons (DRO), Total Petroleum Hydrocarbons (GRO)

Respectfully submitted,



Charles Brungardt

President

LT Environmental

Julie Linn

Analytical Report

Project Name: **XTO CO Soil**Customer Sample ID: **Huber-Burkett #1-25**

Oxidor Sample ID: 1008302-002

Sample Received: 8/17/2010

Matrix: **Solid**Sample Collected: **8/16/2010 10:24**

Parameter	MQL	SQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Conductivity	0.01	0.0100	0.140	mmhos/cm	08/17/10 17:00	9050A	B.F.	
% Solids	0.1	0.1	91.9	%	08/18/10 09:07	Dry Weight	E.C.	
pH	0.1	0.1	8.4	pH Units	08/17/10 16:10	9045C	B.F.	
Metals								
<i>Digested by method 3005A on 08/23/10 at 09:55</i>								
Calcium, Extractable	0.5	0.50	12.6	mg/L	08/23/10 16:36	6020	K.O.	
Magnesium, Extractable	0.5	0.50	2.86	mg/L	08/23/10 16:36	6020	K.O.	
Sodium Adsorption Ratio (SAR)			3.44		08/23/10 16:36	Ag Handbook No 60 USDA	K.O.	E-1
Sodium, Extractable	0.5	0.50	52.2	mg/L	08/23/10 16:36	6020	K.O.	
<i>Digested by method 3050B on 08/19/10 at 11:30</i>								
Arsenic	0.5	0.544	11.4	mg/Kg	08/19/10 20:10	6020	K.O.	
Barium	0.5	5.47	318	mg/Kg	08/19/10 20:16	6020	K.O.	D-1
Cadmium	0.1	0.109	0.183	mg/Kg	08/19/10 20:10	6020	K.O.	
Chromium	0.5	0.544	6.71	mg/Kg	08/19/10 20:10	6020	K.O.	
Copper	0.5	0.544	15.7	mg/Kg	08/19/10 20:10	6020	K.O.	
Lead	0.5	0.544	13.5	mg/Kg	08/19/10 20:10	6020	K.O.	
Nickel	0.5	0.544	8.16	mg/Kg	08/19/10 20:10	6020	K.O.	
Selenium	0.5	0.544	1.06	mg/Kg	08/19/10 20:10	6020	K.O.	
Silver	0.1	0.109	ND	mg/Kg	08/19/10 20:10	6020	K.O.	
Zinc	0.5	0.544	61.8	mg/Kg	08/19/10 20:10	6020	K.O.	
<i>Digested by method 7471A on 08/19/10 at 13:10</i>								
Mercury	0.025	0.0272	0.0394	mg/Kg	08/19/10 19:22	7471A	K.O.	
Sample Prep								
SAR, Extraction								
SAR, Extraction					08/20/10 14:30	Ag Handbook No 60 USDA	K.O.	

LT Environmental

Julie Linn

Sample Cross Reference

 Project Name: **XTO CO Soil**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
Durango Compressor Stati	1008302-001	Total Petroleum Hydrocarbons (DRO)	8015C (Mod)	DRO__00106BS
		Dry Weight	Dry Weight	DW__14620_S
		Total Petroleum Hydrocarbons (GRO)	8015C (Mod)	GRO__00110AS
		Mercury	7471A	MERC_04517_S
		Barium	6020	META_01831_S
		Chromium	6020	META_01831_S
		Lead	6020	META_01831_S
		Selenium	6020	META_01831_S
		Silver	6020	META_01831_S
		Cadmium	6020	META_01831_S
		Arsenic	6020	META_01831_S
		BTEX	8260B	VOC__26210_S
Huber-Burkett #1-25	1008302-002	Conductivity	9050A	COND_01808_S
		Dry Weight	Dry Weight	DW__14620_S
		Mercury	7471A	MERC_04517_S
		Lead	6020	META_01831_S
		Copper	6020	META_01831_S
		Chromium	6020	META_01831_S
		Cadmium	6020	META_01831_S
		Arsenic	6020	META_01831_S
		Nickel	6020	META_01831_S
		Barium	6020	META_01831_S
		Selenium	6020	META_01831_S
		Silver	6020	META_01831_S
		Zinc	6020	META_01831_S
		Magnesium, Extractable	6020	META_02431_L
		Sodium, Extractable	6020	META_02431_L
		Calcium, Extractable	6020	META_02431_L
		pH	9045C	PH__11211_S
Lincoln Trust Pruski #3-22	1008302-003	Conductivity	9050A	COND_01808_S
		Dry Weight	Dry Weight	DW__14620_S
		Mercury	7471A	MERC_04517_S
		Selenium	6020	META_01831_S
		Lead	6020	META_01831_S
		Copper	6020	META_01831_S
		Nickel	6020	META_01831_S
		Cadmium	6020	META_01831_S
		Silver	6020	META_01831_S
		Barium	6020	META_01831_S
		Arsenic	6020	META_01831_S
		Zinc	6020	META_01831_S
		Chromium	6020	META_01831_S
		Magnesium, Extractable	6020	META_02431_L
		Sodium, Extractable	6020	META_02431_L
		Calcium, Extractable	6020	META_02431_L
		pH	9045C	PH__11211_S

LT Environmental
Julie Linn

Sample Cross Reference

Project Name: **XTO CO Soil**

Customer ID:	Lab ID:	Test	Method	QCBatchID:
Finney #5-12U	1008302-004	Total Petroleum Hydrocarbons (DRO)	8015C (Mod)	DRO__00106BS
		Dry Weight	Dry Weight	DW__14620_S
		Total Petroleum Hydrocarbons (GRO)	8015C (Mod)	GRO__00110AS
		Mercury	7471A	MERC_04517_S
		Arsenic	6020	META_01831_S
		Barium	6020	META_01831_S
		Cadmium	6020	META_01831_S
		Lead	6020	META_01831_S
		Selenium	6020	META_01831_S
		Silver	6020	META_01831_S
		Chromium	6020	META_01831_S
		BTEX	8260B	VOC__26210_S

LT Environmental
Julie Linn

QC Summary

Project Name: **XTO CO Soil**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID COND_01808_S									
Blank	Conductivity	ND µmhos/cm							
LCS	Conductivity	106 µmhos/cm		100.3	106%	90-110%			
LCSD	Conductivity	105 µmhos/cm		100.3 µmhos/cm	105%	90-110%	0.9%	0-25%	
Replicate	Conductivity	130 µmhos/cm	0.125 mmhos/cm				3.9%		
QCBatchID DW__14620_S									
Replicate	% Solids	79.2 %	79.7 %				0.6%	0-20%	
QCBatchID PH__11211_S									
Replicate	pH	6.6 pH Units	6.7 pH Units				0.9%	0-10%	
QCBatchID MERC_04517_S									
Blank	Mercury	ND mg/Kg							
LCS	Mercury	0.0046 mg/L		0.005 mg/L	92%	85-115%			
LCSD	Mercury	0.0051 mg/L		0.005 mg/L	101%	85-115%	9.6%	0-25%	
MS	Mercury	0.530 mg/Kg	ND	0.5 mg/Kg	106%	80-120%			
MSD	Mercury	0.554 mg/Kg	ND	0.5 mg/Kg	111%	80-120%	4.4%	0-25%	
QCBatchID META_01831_S									
Blank	Arsenic	ND mg/Kg							
	Barium	ND mg/Kg							
	Cadmium	ND mg/Kg							
	Chromium	ND mg/Kg							
	Copper	ND mg/Kg							
	Lead	ND mg/Kg							
	Nickel	ND mg/Kg							
	Selenium	ND mg/Kg							
	Silver	ND mg/Kg							
	Zinc	ND mg/Kg							
LCS	Arsenic	0.945 mg/L		1 mg/L	95%	85-115%			
	Barium	10.2 mg/L		11 mg/L	93%	85-115%			
	Cadmium	0.955 mg/L		1 mg/L	96%	85-115%			
	Chromium	0.929 mg/L		1 mg/L	93%	85-115%			
	Copper	10.6 mg/L		11 mg/L	96%	85-115%			
	Lead	10.1 mg/L		11 mg/L	92%	85-115%			
	Nickel	0.964 mg/L		1 mg/L	96%	85-115%			
	Selenium	0.991 mg/L		1 mg/L	99%	85-115%			
	Silver	0.921 mg/L		1 mg/L	92%	85-115%			
	Zinc	10.8 mg/L		11 mg/L	98%	85-115%			
LCSD	Arsenic	1.00 mg/L		1 mg/L	101%	85-115%	6.2%	0-20%	
	Barium	10.6 mg/L		11 mg/L	97%	85-115%	4.0%	0-20%	
	Cadmium	0.999 mg/L		1 mg/L	100%	85-115%	4.5%	0-20%	

LT Environmental

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QC Summary

Project Name: **XTO CO Soil**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID META_01831_S									
MS	Chromium	0.954 mg/L		1 mg/L	95%	85-115%	2.7%	0-20%	
	Copper	11.0 mg/L		11 mg/L	100%	85-115%	3.7%	0-20%	
	Lead	10.5 mg/L		11 mg/L	96%	85-115%	3.9%	0-20%	
	Nickel	1.01 mg/L		1 mg/L	101%	85-115%	4.4%	0-20%	
	Selenium	1.10 mg/L		1 mg/L	110%	85-115%	10.2%	0-20%	
	Silver	0.957 mg/L		1 mg/L	96%	85-115%	3.8%	0-20%	
	Zinc	11.2 mg/L		11 mg/L	102%	85-115%	3.6%	0-20%	
	Arsenic	50.6 mg/Kg	1.15 mg/Kg	50 mg/Kg	99%	80-120%			
	Barium	550 mg/Kg	33.4 mg/Kg	550 mg/Kg	94%	80-120%			
	Cadmium	47.6 mg/Kg	0.220 mg/Kg	50 mg/Kg	95%	80-120%			
	Chromium	55.9 mg/Kg	8.59 mg/Kg	50 mg/Kg	95%	80-120%			
	Copper	532 mg/Kg	4.63 mg/Kg	550 mg/Kg	96%	80-120%			
	Lead	514 mg/Kg	2.89 mg/Kg	550 mg/Kg	93%	80-120%			
	Nickel	57.4 mg/Kg	9.32 mg/Kg	50 mg/Kg	96%	80-120%			
	Selenium	53.4 mg/Kg	1.33 mg/Kg	50 mg/Kg	104%	80-120%			
	Silver	46.4 mg/Kg	0.067 mg/Kg	50 mg/Kg	93%	80-120%			
	Zinc	559 mg/Kg	22.3 mg/Kg	550 mg/Kg	98%	80-120%			
	Arsenic	51.8 mg/Kg	1.15 mg/Kg	50 mg/Kg	101%	80-120%	2.2%	0-20%	
	Barium	578 mg/Kg	33.4 mg/Kg	550 mg/Kg	99%	80-120%	4.9%	0-20%	
MSD	Cadmium	50.2 mg/Kg	0.220 mg/Kg	50 mg/Kg	100%	80-120%	5.3%	0-20%	
	Chromium	59.1 mg/Kg	8.59 mg/Kg	50 mg/Kg	101%	80-120%	5.6%	0-20%	
	Copper	552 mg/Kg	4.63 mg/Kg	550 mg/Kg	100%	80-120%	3.7%	0-20%	
	Lead	538 mg/Kg	2.89 mg/Kg	550 mg/Kg	97%	80-120%	4.6%	0-20%	
	Nickel	61.1 mg/Kg	9.32 mg/Kg	50 mg/Kg	104%	80-120%	6.2%	0-20%	
	Selenium	57.0 mg/Kg	1.33 mg/Kg	50 mg/Kg	111%	80-120%	6.6%	0-20%	
	Silver	47.9 mg/Kg	0.067 mg/Kg	50 mg/Kg	96%	80-120%	3.1%	0-20%	
	Zinc	582 mg/Kg	22.3 mg/Kg	550 mg/Kg	102%	80-120%	4.0%	0-20%	
QCBatchID META_02431_L									
Blank	Calcium, Extractable	ND mg/L							
	Magnesium, Extractable	ND mg/L							
	Sodium, Extractable	ND mg/L							
LCS	Calcium, Extractable	9.96 mg/L		10.1 mg/L	99%	85-115%			
	Magnesium, Extractable	10.6 mg/L		10.1 mg/L	105%	85-115%			
	Sodium, Extractable	9.94 mg/L		10.1 mg/L	98%	85-115%			
LCSD	Calcium, Extractable	10.0 mg/L		10.1 mg/L	99%	85-115%	0.4%	0-20%	
	Magnesium, Extractable	10.5 mg/L		10.1 mg/L	104%	85-115%	0.9%	0-20%	
	Sodium, Extractable	10.0 mg/L		10.1 mg/L	99%	85-115%	0.6%	0-20%	
MS	Calcium, Extractable	191 mg/L	146 mg/L	50.5 mg/L	89%	80-120%			
	Magnesium, Extractable	66.5 mg/L	15.6 mg/L	50.5 mg/L	101%	80-120%			
	Sodium, Extractable	89.0 mg/L	40.9 mg/L	50.5 mg/L	95%	80-120%			
MSD	Calcium, Extractable	193 mg/L	146 mg/L	50.5 mg/L	93%	80-120%	1.0%	0-20%	
	Magnesium, Extractable	67.4 mg/L	15.6 mg/L	50.5 mg/L	103%	80-120%	1.3%	0-20%	
	Sodium, Extractable	90.6 mg/L	40.9 mg/L	50.5 mg/L	98%	80-120%	1.8%	0-20%	

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QC Summary

Project Name: **XTO CO Soil**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID DRO_00106BS									
Blank	Diesel-Range Organics	ND mg/Kg							
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	o-Terphenyl	77.7 mg/Kg		100 mg/Kg	78%	60-140%			
LCS	Diesel-Range Organics	421 mg/Kg		500 mg/Kg	84%	60-140%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	o-Terphenyl	450 mg/Kg		500 mg/Kg	90%	60-140%			
LCSD	Diesel-Range Organics	440 mg/Kg		500 mg/Kg	88%	60-140%	4.3%	0-25%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	o-Terphenyl	470 mg/Kg		500 mg/Kg	94%	60-140%			
MS	Diesel-Range Organics	438 mg/Kg	ND	500 mg/Kg	88%	60-140%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	o-Terphenyl	427 mg/Kg		500 mg/Kg	85%	60-140%			
MSD	Diesel-Range Organics	405 mg/Kg	ND	500 mg/Kg	81%	60-140%	7.9%	0-25%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	o-Terphenyl	428 mg/Kg		500 mg/Kg	86%	60-140%			
QCBatchID GRO_00110AS									
Blank	Gasoline-Range Organics	ND mg/Kg							
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Bromofluorobenzene	0.0453 mg/Kg		0.05 mg/Kg	91%	60-140%			
LCS	Gasoline-Range Organics	0.517 mg/Kg		0.5 mg/Kg	103%	75-125%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Bromofluorobenzene	0.054 mg/Kg		0.05 mg/Kg	108%	60-140%			
LCSD	Gasoline-Range Organics	0.525 mg/Kg		0.5 mg/Kg	105%	75-125%	1.5%	0-20%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Bromofluorobenzene	0.052 mg/Kg		0.05 mg/Kg	104%	60-140%			
MS	Gasoline-Range Organics	0.430 mg/Kg	ND	0.5 mg/Kg	86%	75-125%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Bromofluorobenzene	0.046 mg/Kg		0.05 mg/Kg	92%	60-140%			
MSD	Gasoline-Range Organics	0.408 mg/Kg	ND	0.5 mg/Kg	82%	75-125%	5.3%	0-20%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	Bromofluorobenzene	0.046 mg/Kg		0.05 mg/Kg	92%	60-140%			
QCBatchID VOC_26210_S									
Blank	Benzene	ND µg/kg							
	Toluene	ND µg/kg							
	Ethylbenzene	ND µg/kg							
	m,p-Xylene	ND µg/kg							
	o-Xylene	ND µg/kg							
	Xylenes (Total)	ND µg/kg							
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	4-Bromofluorobenzene	45.1 µg/kg		50 µg/kg	90%	70-130%			
LCS	Benzene	53.7 µg/kg		50 µg/kg	107%	70-130%			

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QC Summary

Project Name: **XTO CO Soil**

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID VOC__26210_S									
	Toluene	53.7 µg/kg		50 µg/kg	107%	70-130%			
	Ethylbenzene	55.4 µg/kg		50 µg/kg	111%	70-130%			
	m,p-Xylene	109 µg/kg		100 µg/kg	109%	70-130%			
	o-Xylene	54.4 µg/kg		50 µg/kg	109%	70-130%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	4-Bromofluorobenzene	49.4 µg/kg		50 µg/kg	99%	70-130%			
LCSD	Benzene	54.2 µg/kg		50 µg/kg	108%	70-130%	1.0%	0-25%	
	Toluene	55.0 µg/kg		50 µg/kg	110%	70-130%	2.4%	0-25%	
	Ethylbenzene	59.0 µg/kg		50 µg/kg	118%	70-130%	6.3%	0-25%	
	m,p-Xylene	114 µg/kg		100 µg/kg	114%	70-130%	4.5%	0-25%	
	o-Xylene	57.4 µg/kg		50 µg/kg	115%	70-130%	5.3%	0-25%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	4-Bromofluorobenzene	51.5 µg/kg		50 µg/kg	103%	70-130%			
MS	Benzene	52.9 µg/kg	ND	50 µg/kg	106%	70-130%			
	Toluene	51.3 µg/kg	ND	50 µg/kg	103%	70-130%			
	Ethylbenzene	53.0 µg/kg	ND	50 µg/kg	106%	70-130%			
	m,p-Xylene	103 µg/kg	ND	100 µg/kg	103%	70-130%			
	o-Xylene	52.3 µg/kg	ND	50 µg/kg	105%	70-130%			
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	4-Bromofluorobenzene	49.9 µg/kg		50 µg/kg	100%	70-130%			
MSD	Benzene	53.3 µg/kg	ND	50 µg/kg	107%	70-130%	0.8%	0-25%	
	Toluene	51.2 µg/kg	ND	50 µg/kg	102%	70-130%	0.2%	0-25%	
	Ethylbenzene	51.6 µg/kg	ND	50 µg/kg	103%	70-130%	2.7%	0-25%	
	m,p-Xylene	101 µg/kg	ND	100 µg/kg	101%	70-130%	2.0%	0-25%	
	o-Xylene	51.8 µg/kg	ND	50 µg/kg	104%	70-130%	1.0%	0-25%	
	Surrogate	Result		Spike Conc	Recovery	Rec Limits			
	4-Bromofluorobenzene	48.7 µg/kg		50 µg/kg	97%	70-130%			

LT Environmental
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Case Narrative

Project Name: **XTO CO Soil**

D-1	Elevated reporting limit(s) due to dilution. Dilution resulted from sample matrix interference, high target analyte(s), high non-target analyte(s) or a combination thereof.
E-1	Not covered under scope of NELAC accreditation.
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5

Metals CCV percent deviation of Sodium for QC Batch ID META_02413_L was slightly outside Oxidor QC limits.

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Oxidor Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

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Sample Preservation Verification

Project Name: **XTO CO Soil**Receipt temp: **3.4 °C on Ice**All applicable VOA's received free of headspace: **N/A**Receipt method: **Fed Ex**Custody seal intact: **Not Present**All samples / labels received intact: **Yes**Customer Sample ID: **Durango Compressor Station**Collected By: **Devin Henemann**Oxidor Sample ID: **1008302-001**Collector Affiliation: **LT Environmental**Collected: **08/16/10 09:51**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	2	Grab		Temp	-
1000 mL Glass	1	Grab		Temp	-

Customer Sample ID: **Huber-Burkett #1-25**Collected By: **Devin Henemann**Oxidor Sample ID: **1008302-002**Collector Affiliation: **LT Environmental**Collected: **08/16/10 10:24**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	2	Grab		Temp	-
1000 mL Glass	1	Grab		Temp	-

Customer Sample ID: **Lincoln Trust Pruski #3-22**Collected By: **Devin Henemann**Oxidor Sample ID: **1008302-003**Collector Affiliation: **LT Environmental**Collected: **08/16/10 11:06**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	2	Grab		Temp	-
1000 mL Glass	1	Grab		Temp	-

Customer Sample ID: **Finney #5-12U**Collected By: **Devin Henemann**Oxidor Sample ID: **1008302-004**Collector Affiliation: **LT Environmental**Collected: **08/16/10 11:50**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	2	Grab		Temp	-
1000 mL Glass	1	Grab		Temp	-

Customer Sample ID: **Finney #5-12U Background Sample**Collected By: **Devin Henemann**Oxidor Sample ID: **1008302-005**Collector Affiliation: **LT Environmental**Collected: **08/16/10 11:50**Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

LT Environmental

Julie Linn

Sample Preservation Verification

Project Name: **XTO CO Soil**

Customer Sample ID: **Lincoln Trust Pruski #3-22 Background**

Collected By: **Devin Henemann**

Oxidor Sample ID: **1008302-006**

Collector Affiliation: **LT Environmental**

Collected: **08/16/10 11:06**

Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **Huber-Burkett #1-25 Background**

Collected By: **Devin Henemann**

Oxidor Sample ID: **1008302-007**

Collector Affiliation: **LT Environmental**

Collected: **08/16/10 10:24**

Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Customer Sample ID: **Durango Compressor Station Background**

Collected By: **Devin Henemann**

Oxidor Sample ID: **1008302-008**

Collector Affiliation: **LT Environmental**

Collected: **08/16/10 09:51**

Matrix: **Solid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated Preservation</u>	<u>pH</u>
4 oz Glass Jar	1	Grab		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

H.Y.



Chain of Custody

PROJECT DESCRIPTION: XTO CO Soil



OXIDOR Laboratories, LLC
 1825 East Plano Parkway #160
 Plano, TX 75074-8570
 P: 972 424 6422 F: 972 424 6508
 customerservice@oxidor.com



Chain of Custody Record

Page ____ of ____

Send Report To Company Name <u>LT Environmental</u> Address <u>2243 Main Ave, Suite 3</u> City <u>Durango</u> State <u>CO</u> Zip <u>81301</u> Contact Name <u>Julie Linn</u> Contact Email <u>jlinn@ltenv.com</u> Phone <u>970 903 9197</u> Fax <u>970 385 1873</u>				Project / Report Information Circle Requested Turn Around Time (Less than 2 Days must be verified with lab) 7-10 Days 5-7 Days RUSH 3-4 Days 2 Days ASAP Project Name <u>XTO CO Soil</u> Project Location <u>Colorado</u> Project # <u>XTO 1009</u> PO # _____ Sampler Name <u>Debra Hincman</u> Sampler Company <u>LTE</u> Sampler Signature <u>[Signature]</u>														
Send Invoice To (Only if Different from above) Company Name _____ Address _____ City _____ State _____ Zip _____ Contact Name _____ Phone _____ Fax _____				Matrix Codes L - Liquid S - Solid W - Wipes A - Air Preservation Codes 1 - None 4 - HCl 2 - HNO ₃ 5 - NaOH 3 - H ₂ SO ₄ 6 - Ice 7 - Other _____ Container Codes P - Plastic G - Glass O - Other _____														
Special Instructions * <u>BTEX 8021 NO MTBE</u> <u>TPH 8015 NO MRO</u> <u>TABLE 910 NO BORON (see Attached)</u> *Please confirm conditional requests prior to additional analysis				Requested Analysis														
OXIDOR Order ID	Customer Sample ID	Sample Info		Matrix	# of Containers	Container Type	Pres Code	(C)ump (G)rab	Parts / Interval	Hold	PH, SAR, EC	BTEX 8021	RUDE 8 Metals	Print Filters	TPH 8015	Total Solids / Dry Weight	Laboratory Review Checklist	Chromatograms / Data Pages
1008302		Date	Time															
-001	¹ DURANGO COMPRESSOR STATION	8-16-10	0951	S	3	G	6					X	X	X	X			
-002	² HUBER-BURKETT #1-25	8-16-10	10:24	S	3	G	6				X			X				
-003	³ LINCOLN TRUST PRUITT #3-22	8-16-10	11:02	S	3	G	6				X			X				
-004	⁴ FINNEY #5-12U	8-16-10	11:50	S	3	G	6					X	X	X	X			
-005	⁵ FINNEY #5-12U Background sample	8-16-10	11:50	S	1	G	6			X								
-006	⁶ Lincoln Trust Pruitt Background	8-16-10	11:06	S	1	G	6			X								
-007	⁷ HUBER-BURKETT #1-25 Background	8-16-10	10:24	S	1	G	6			X								
-008	⁸ Durango compressor station Background	8-16-10	0951	S	1	G	6			X								

Relinquished by X <u>[Signature]</u>	Affiliation LTE	Date 8/16/10	Time 1552	Received by X <u>[Signature]</u>	Affiliation LTE	Date 8/16/10	Time 900
Relinquished by X	Affiliation	Date	Time	Received by X	Affiliation	Date	Time
Relinquished by X	Affiliation	Date	Time	Received by OXIDOR by X <u>[Signature]</u>	Affiliation	Date	Time
Relinquished by X	Affiliation	Date	Time	Received by OXIDOR by X <u>[Signature]</u>	Affiliation	Date	Time

Submission of samples signifies acceptance of OXIDOR's Standard Terms and Conditions.
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5/22/2008 - Rev. 4.0

Temp at Receipt 34 °C