1RP-09-09-2286

RECEIVED
SEP 30 2009
HOBBSOCD

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 Permian Division-SE New Mexico	Contact: Rick Wilson/Production Foreman
Address: P.O. Box 700, Eunice, New Mexico 88231	Telephone No.: (575) 394-2089
Facility Name: EMSU-Central Battery Tank 2	Facility Type: Tank Battery-Nearest Well is EMSU Well #626 (API #30-025-31465)

Surface Owner: State of New Mexico	Mineral Owner	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Unit E	4	21S	36E					Lea

Latitude: 32° 30' 27.93" N **Longitude:** 103° 16' 33.28" W

NATURE OF RELEASE

Type of Release: Crude Oil & Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Below Grade Tank	Date & Hour of Occurrence: Unknown	Date and Hour of Discovery: 8/26/09/8:00 am MST
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATER@150'

Describe Cause of Problem and Remedial Action Taken.: Below Grade Tank removed per OCD approved closure plan. Oil & produced water was incidentally released to adjacent soil when discharge line was disconnected for below grade tank. A flange blind cover was installed to discharge line flange to prevent further leakage of fluid. Initial composite sample (5-spot) from soils directly beneath the tank and leak detection system showed evidence of release. Discreet sample from stained area indicates release of hydrocarbons & chlorides to adjacent soil.

Describe Area Affected and Cleanup Action Taken.: *Impact limited to exposed soil on excavation north wall and adjacent to discharge line piping. No cleanup action was taken at this time. XTO proposes to excavate the TPH (27,900 mg/Kg) and Chlorides (334 mg/Kg) at location Tank-2 North Wall to delineate the TPH and Chlorides by field methods and collect a composite sample for laboratory confirmation when field observations indicate that the extent of contamination has been obtained.

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: John Fergerson, Larson & Associates, Inc. (Consultant)	Approved by ~~District Supervisor~~ ENV ENGINEER:
Title: Hydrogeologist	Approval Date: 09/30/09 Expiration Date: 11/30/09
E-mail Address: john@laenvironmental.com	Conditions of Approval: Attached ☐ IRP-09-09-2286
Date: 9/16/09 Phone: (432) 687-0901	

* Attach Additional Sheets If Necessary

Larson & Associates, Inc.
Environmental Consultants

September 23, 2009

RECEIVED
SEP 30 2009
HOBBSOCD

VIA: Certified Mail (Return Receipt Requested)
VIA EMAIL: GeoffreyR.Leking@state.nm.us

Mr. Geoffrey Leking
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

Re: 1RP-09-09-2286
Below Grade Tank Removal Documentation and Soil Sample Results
XTO Energy, Inc., Eunice Monument South Unit – Central Battery Tank 2
Unit E (SW/4, NW/4), Section 4, Township 21 South, Range 36 East
Lea County, New Mexico

Dear Mr. Leking,
Pursuant to 19.15.17.13E(4) NMAC, this letter is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of XTO Energy, Inc. (XTO) by Larson & Associates, Inc. (LAI), its consultant, to document removal of a below grade tank (Tank 2) and transmit the laboratory results for composite and discreet soil samples collected beneath the tank located at the Eunice Monument South Unit (EMSU), Central Battery (Facility) located in Unit E (SW/4, NW/4), Section 4, Township 21 South, Range 36 East in Lea County, New Mexico. On February 4, 2009, the OCD Environmental Bureau in Santa Fe, New Mexico, approved a closure plan for the below grade tank in accordance with an Agreed Scheduling Order (ASO-008) between XTO and OCD for below-grade tanks and permanent pits in southeast and northwest New Mexico. The global position system (GPS) coordinate for the Facility is latitude 32° 30' 27.93" north and longitude 103° 16' 33.28" west (Figure 1). The below grade tank is constructed of fiberglass with an approximate capacity of 90 barrels (3,780 gallons). The nearest producing well is the XTO EMSU Well #626 with API #30-025-31465. The New Mexico State Land Office (SLO) is the surface owner of record. Groundwater occurs at approximately 150 feet below ground surface and no well, including municipal or private wells used by less than five households for domestic or stock purposes, is located within 500 feet of the Facility. No surface water features, including lakes, rivers, ponds, arroyos, irrigation ditch, lakebed, sinkhole, or playa lake is located within 200 horizontal feet of the Facility. Contact information for XTO is as follows:

XTO Energy Inc.
Permian Division-SE New Mexico
P.O. Box 700
Eunice, New Mexico 88231

Contact Person: Rick Wilson
Phone Number: (575) 394-2089

XTO Energy Inc.
Midland Office
200 N. Loraine Street, Suite 800
Midland, Texas 79701

Contact Person: Guy Haykus
Phone Number: (432) 682-8873

On August 19, 2009, XTO sent certified letters, with return receipt requested, to the OCD District 1 office, located in Hobbs, New Mexico and the New Mexico State Land Office, as surface owner of record, at its Santa Fe and Hobbs, New Mexico offices, to notify these entities of pending closure of the below grade tank (Appendix A). The closure was scheduled to commence on August 26, 2009.

On August 26, 2009, XTO removed ancillary equipment (metal barricade) for salvage or scrap metal. A Hydro-Vac truck was used to excavate soil from around the tank. Excavated soil was placed on the ground within the facility fencing pending disposal at an NMOCD permitted facility. On August 26, 2009, LAI personnel conducted a site visit to collect confirmation samples and to photo document the Tank 2 removal and excavation (Attachment B). LAI field personnel collected a 5-spot composite soil sample (Tank-2 Bottom) from soils directly beneath the tank and leak detection system. A discreet soil sample was collected from an area of stained soil located on the north wall of the excavation (Tank -2 North Wall). The composite and discreet soil samples were placed in clean glass sample containers, labeled, chilled in an ice chest and shipped via overnight courier under chain of custody control and preservation to DHL Analytical located in Round Rock, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. An aerial map and site map of Central Battery with Tank 2 location depicted are presented in Figures 2 and 3, respectfully.

No benzene was reported in the samples at concentrations above the OCD reporting limits of 0.2 milligrams per kilogram (mg/Kg). BTEX (91.75 mg/Kg) was reported above the OCD reporting limit of 50 mg/Kg in the north wall discreet sample (Tank-2 North Wall). TPH was reported in the composite samples at concentrations between 65.0 mg/Kg (Tank-2 Bottom) and 27,900 mg/Kg in the discreet sample (Tank-2 North Wall). Chloride was reported in the composite sample at 5.58 mg/Kg (Tank-2 Bottom). Chloride was reported in the discreet sample at 11.3 mg/Kg (Tank-2 North Wall). A composite sample from the soil pile reported TPH and chloride at 628 mg/Kg and 11.3 mg/Kg, respectively. Table 1 presents a summary of the laboratory analysis. Attachment C presents the laboratory report. Figure 1 presents a topographic map. Figure 2 and Figure 3 present a Google® image and site drawing, respectively.

XTO proposes to excavate soil on the north side of the excavation to reduce the TPH (27,900 mg/Kg) below the OCD recommended remediation action level of 5,000 mg/Kg. Chlorides will be determined by field methods and final samples will be collected for laboratory confirmation when field observations indicate that the extent of contamination has been obtained. Appendix D presents the initial C-141. Please contact either Mark Larson or myself at (432) 687-0901 (office) or email: mark@laenvironmental.com or john@laenvironmental.com if you have questions.

Sincerely,
Larson & Associates, Inc.

John Fergerson, P.G
Hydrogeologist

Attachments: Tables
Table 1: Soil Analytical Data Summary for TPH & Chloride Impacted Soil Samples
Figures
Figure 1: Topographic Map
Figure 2: Aerial Drawing of Central Battery
Figure 3: Site Drawing of Central Battery
Appendix A: Notification Letters
Appendix B: Photo Documentation
Appendix C: Laboratory Report
Appendix D: Initial C-141

Cc: Dudley McMinn/XTO Energy, Inc – Midland
Rick Wilson/XTO Energy Inc/Production Foreman – EMSU

Tables

Soil Analytical Data Summary

Table 1
Soil Analytical Data Summary
EMSU - Central Battery Tank 2
XTO Energy, Inc.
Lea County, New Mexico
Project No.: 8-0137

Sample ID	Date	Benzene	Ethyl benzene	Toluene	Total Xylenes	TRPH	Chlorides
RRAL:							250
Tank-2 Bottom	8/26/2009	<0.00274	<0.00456	<0.00456	<0.00456	65.0	5.58
Tank-2 North Wall	8/26/2009	<0.0295	19.2	6.15	66.4	27,900	334
Tank-2 Soil Pile	8/26/2009	<0.00303	0.0940	<0.00506	0.0716	628	11.3

Notes

RRAL - Recommended Remediation Action Level

Total Petroleum Hydrocarbons analyzed via Method 418.1.

Chlorides analyzed via EPA Method 300.

All values reported in Milligrams per Kilogram - dry (mg/kg, parts per million).

Bold and blue indicates the value exceeds NMOCD requirements.

Figures

Figure 1: Topographic Map

Figure 2: Aerial Drawing of Central Battery

Figure 3: Site Drawing of Central Battery

JWW

Y \PROJECTS\XTO ENERGY\8-01\8-0137 EMSU CENTRAL BATTERY dwg, 9/23/2009 4 03 09 PM

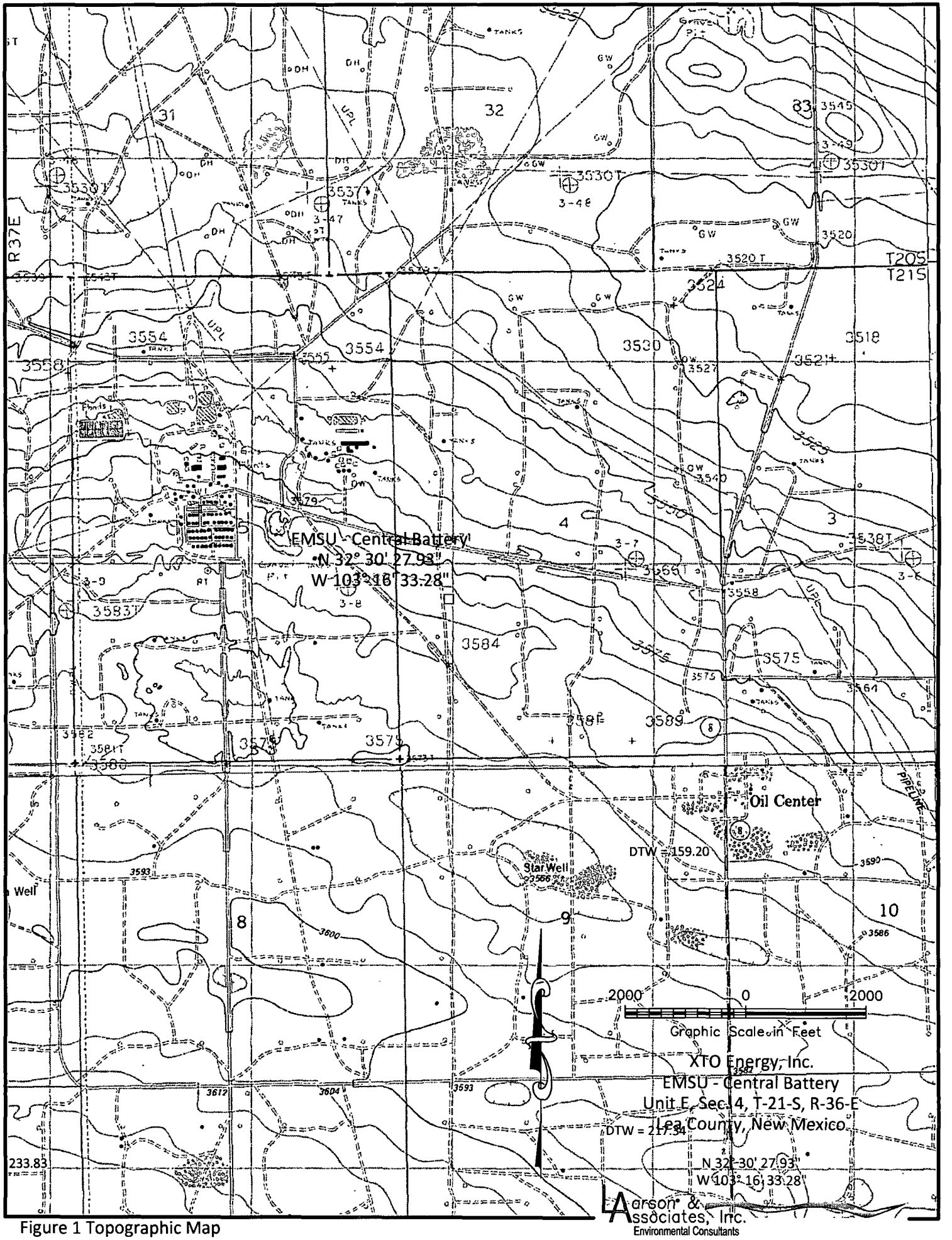


Figure 1 Topographic Map

JWW

Y \PROJECTS\XTO ENERGY\8-01\8-0137 EMSU CENTRAL BATTERY dwg, 9/23/2009 4 03 39 PM

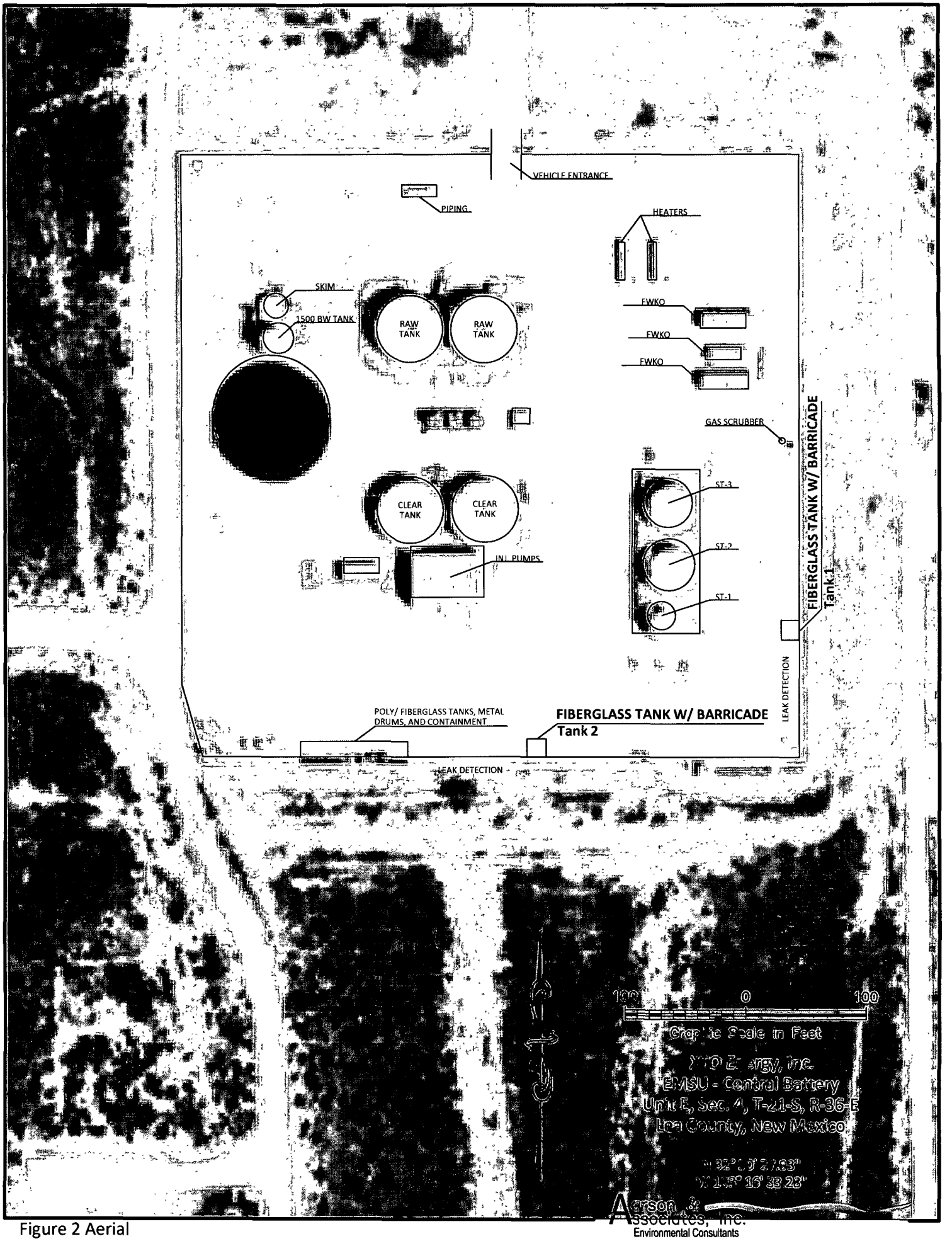
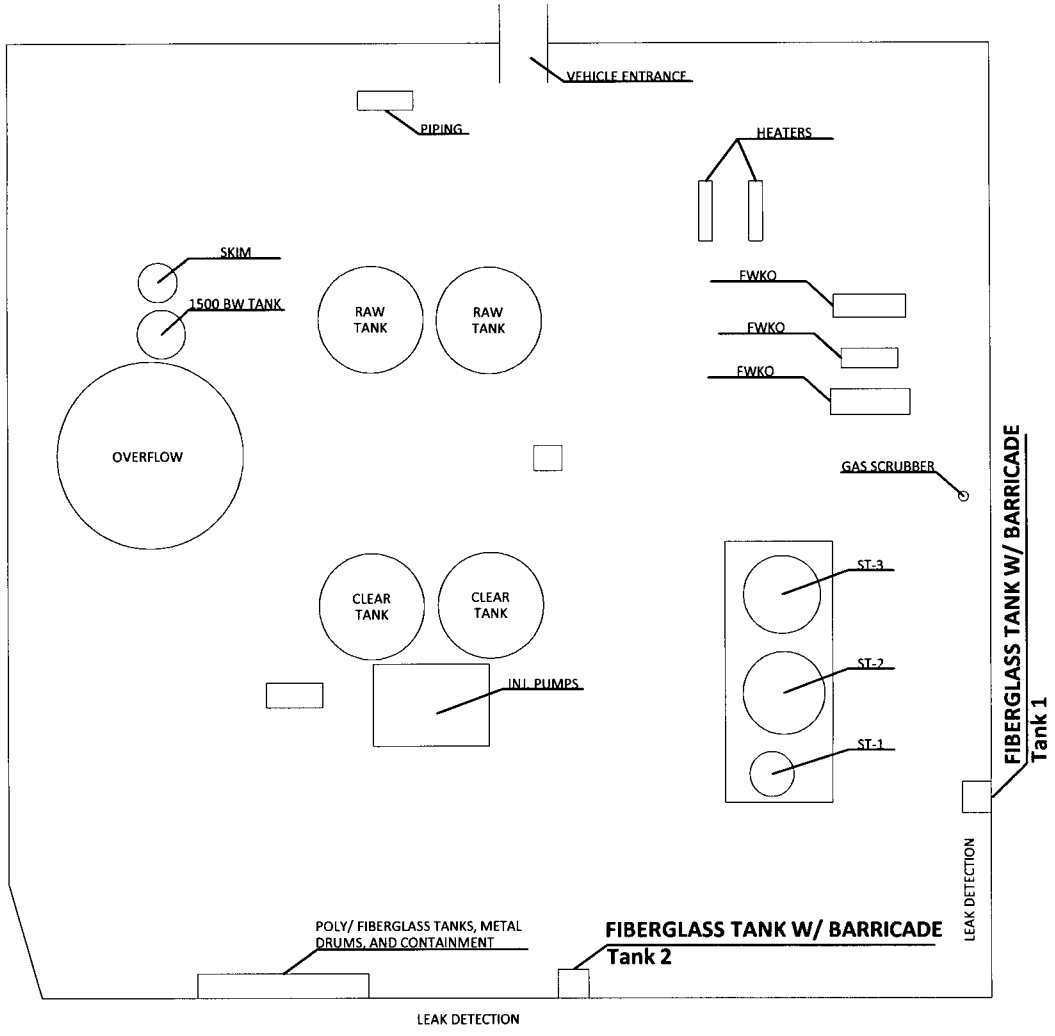


Figure 2 Aerial



100 0 100

Graphic Scale in Feet

XTO Energy, Inc.
EMSU - Central Battery
Unit E, Sec. 4, T-21-S, R-36-E
Lea County, New Mexico

N 32° 30' 27.93"
W 103° 16' 33.28"

LArson & Associates, Inc.
Environmental Consultants

Figure 3 - Site Drawing

Attachment A

Notification Letters

XTO ENERGY

August 19, 2009

VIA: Certified Mail (Return Receipt Requested)

Mr. Patrick Lyons, Commissioner
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: Notice of Below-Grade Tank 2 Closure
XTO Energy, Inc.
Eunice Monument South Unit Central Tank Battery – Tank 2
Unit E (SW/4, NW/4), Section 4
Township 21 South, Range 36 East
Lea County, New Mexico

Dear Commissioner Lyons,
Pursuant to paragraph (1) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico State Land Office (SLO), as surface owner of record, by XTO Energy, Inc. (XTO) of its intent to close a below-grade tank (Tank #2) at the central tank battery (Facility) located in the Eunice Monument South Unit beginning August 26, 2009. The Facility is located in Unit E (SW/4, NW/4), Section 4, Township 21 South, Range 36 East in Lea County, New Mexico. The latitude and longitude is 32° 30' 27.93" north and 103° 16' 33.28" west, respectively. The closure will be performed according to a plan meeting the requirements of Paragraphs (1) through (6) of Subsection E of 19.15.17.13 NMAC that was approved by the New Mexico Oil Conservation Division (OCD) on July 17, 2009. The closure plan may be viewed at the OCD District 1 office located in Hobbs, New Mexico or with the OCD Environmental Bureau in Santa Fe, New Mexico. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,
XTO Energy, Inc.

Clif Green
Production Superintendent

Cc: Leon Anderson - SLO Hobbs District (w/Return Receipt)
Dudley McMinn - XTO
Mark Larson - Larson & Associates, Inc.

XTO ENERGY

August 19, 2009

VIA: Certified Mail (Return Receipt Requested)

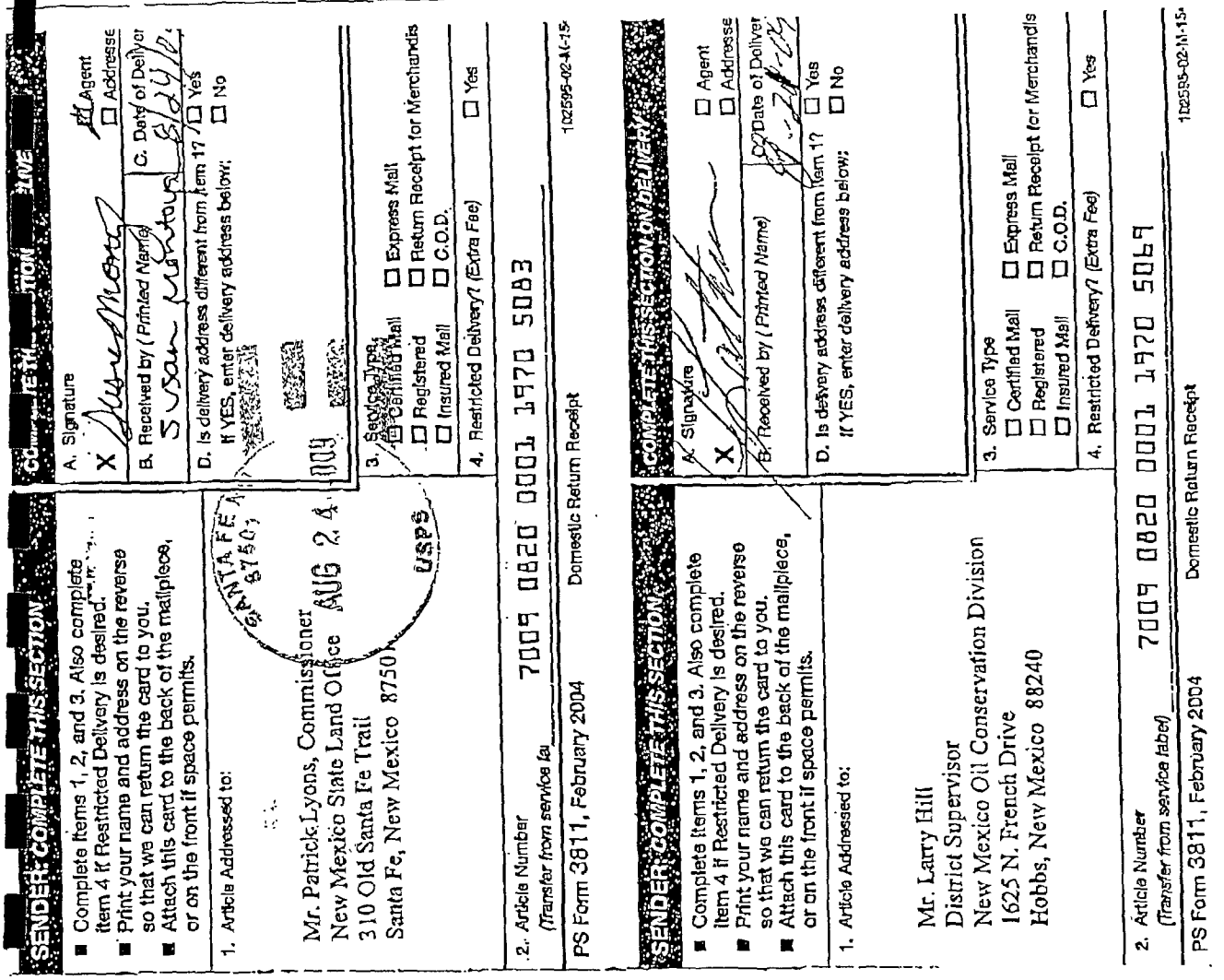
Mr. Larry Hill
District Supervisor
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Notice of Below-Grade Tank 2 Closure
XTO Energy, Inc.
Eunice Monument South Unit Central Tank Battery – Tank 2
Unit E (SW/4, NW/4), Section 4
Township 21 South, Range 36 East
Lea County, New Mexico

Dear Mr. Hill,
Pursuant to paragraph (2) of Subsection J of 19.15.17.13 NMAC, notice is hereby given to the New Mexico Oil Conservation Division (OCD) by XTO Energy, Inc. (XTO) of its intent to close a below-grade tank (Tank #2) at the central tank battery (Facility) located in the Eunice Monument South Unit (EMSU) beginning August 26, 2009. The Facility is located in Unit E (SW/4, NW/4), Section 4, Township 21 South, Range 36 East in Lea County, New Mexico. The latitude and longitude is 32° 30' 27.93" north and 103° 16' 33.28" west, respectively. The nearest well is the EMSU Well no. 626 with API #30-025-31465. The closure will be in accordance with a plan meeting the requirements of Paragraphs (1) through (6) of Subsection E of 19.15.17.11 NMAC that was approved by the OCD Environmental Bureau in Santa Fe, New Mexico, on July 17, 2009. Please contact myself at (432) 682-8873 or Mark Larson with Larson & Associates, Inc. at (432) 687-0901, if you have questions.
Sincerely,
XTO Energy, Inc.

Clif Green
Production Superintendent

Cc: Dudley McMinn – XTO Energy
Mark Larson - Larson & Associates, Inc.



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Patrick Lyons, Commissioner
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

SANTA FE NM 875 AUG 24 2009 USPS

COMPLETE THIS SECTION ON DELIVERY

A. Signature X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 1970 5083

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Larry Hill
District Supervisor
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

COMPLETE THIS SECTION ON DELIVERY

A. Signature X — ☐ Agent ☐ Addressee

B. Received by (Printed Name) — C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 1970 5069

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Leon Anderson
NMOCD – Hobbs Field Office
2702-D North Grimes Street
Hobbs, New Mexico 88240

COMPLETE THIS SECTION ON DELIVERY

A. Signature X — ☐ Agent ☒ Addressee

B. Received by (Printed Name) — C. Date of Delivery 8/27/09

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

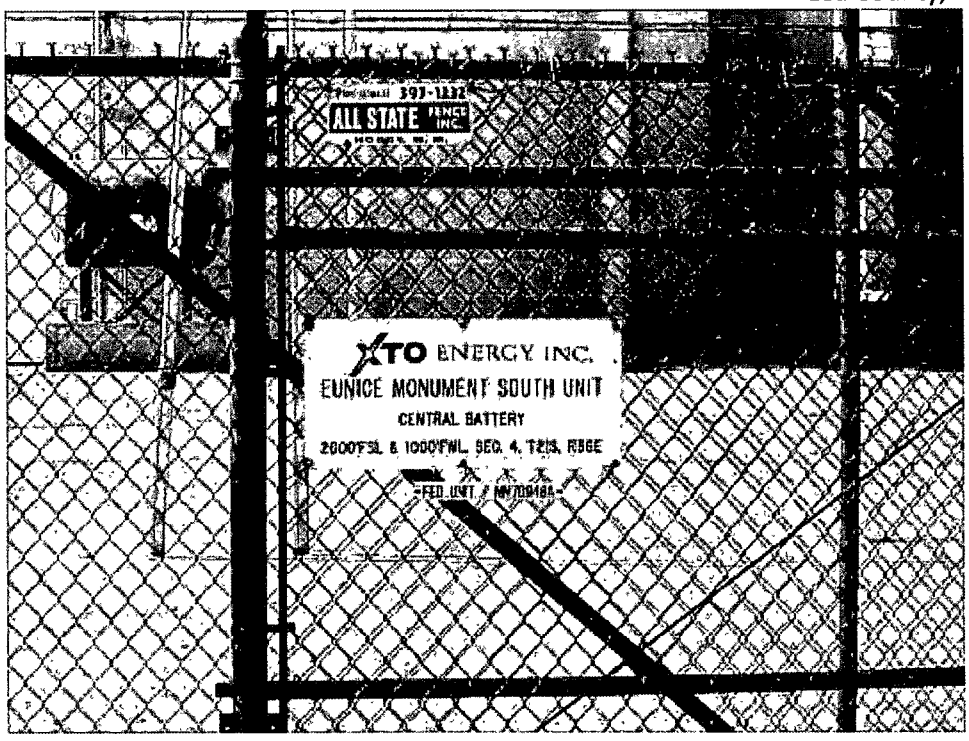
4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 0820 0001 1970 5090

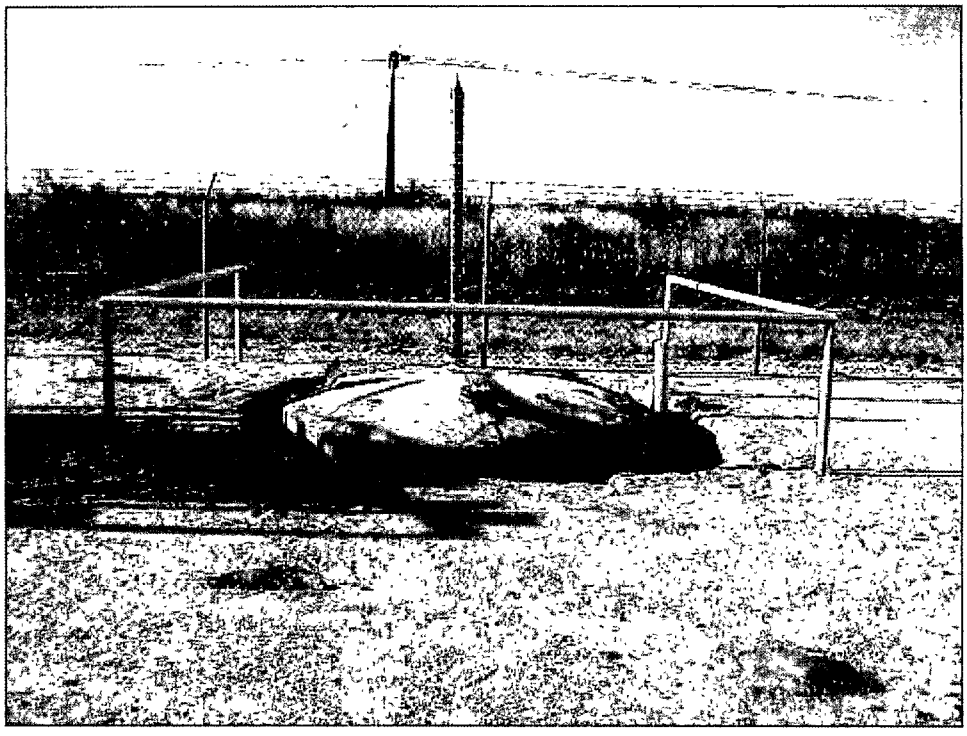
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Attachment B

Photo Documentation

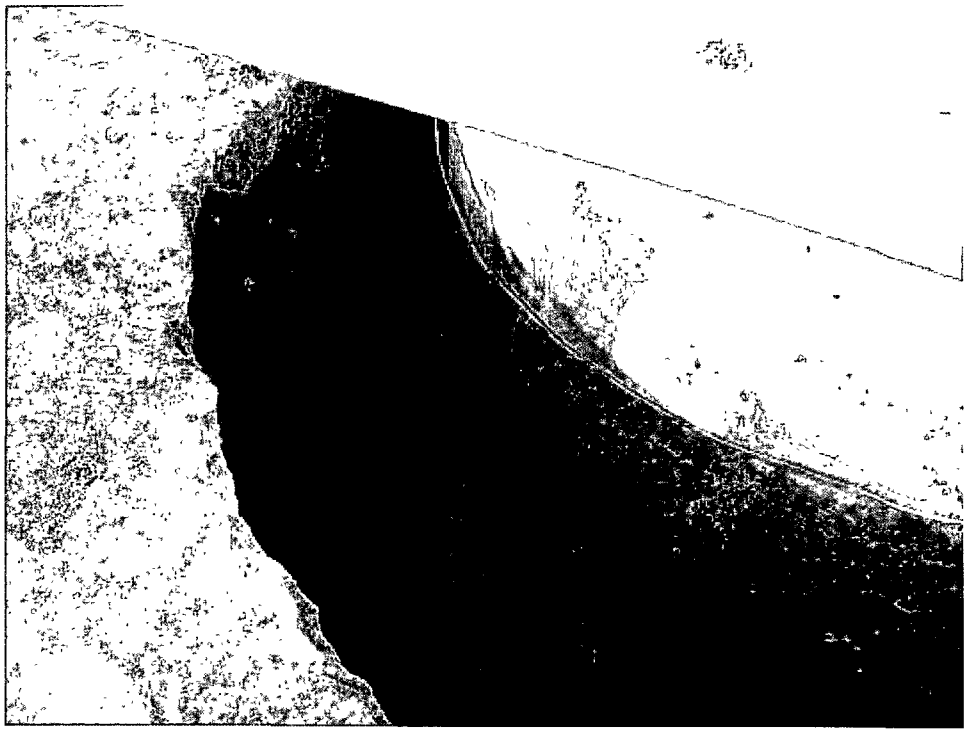


View Facing SSW: Close-up of Central Battery Sign



View Facing South: Below Grade Tank 2 Location near Southern Fence Line

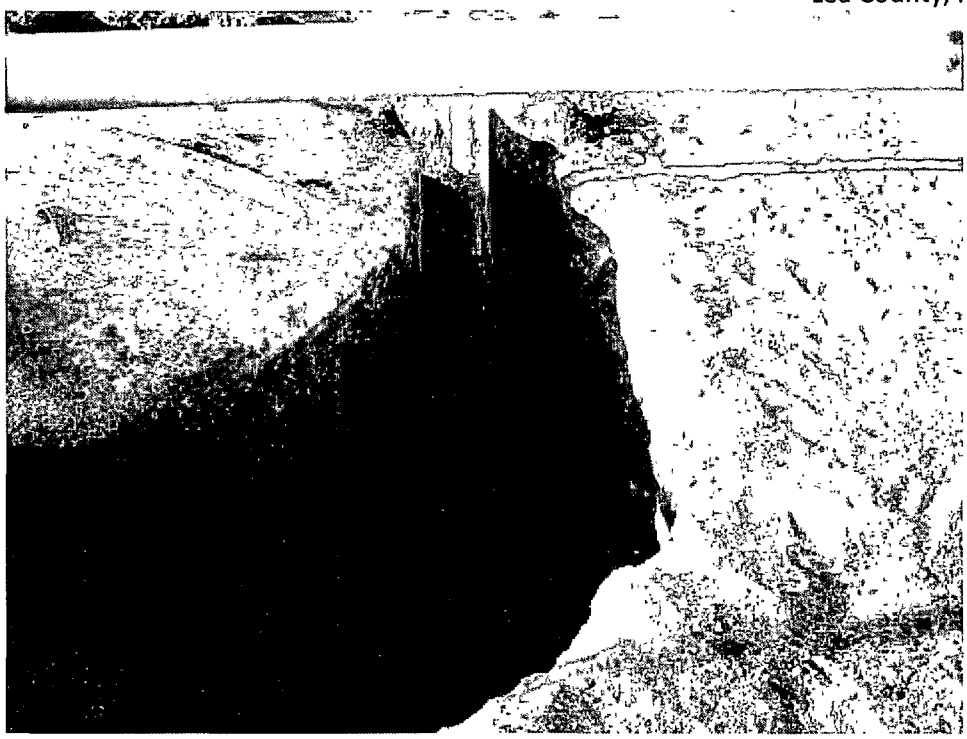
View Facing Down: Tank 2 and Discharge Line Connection



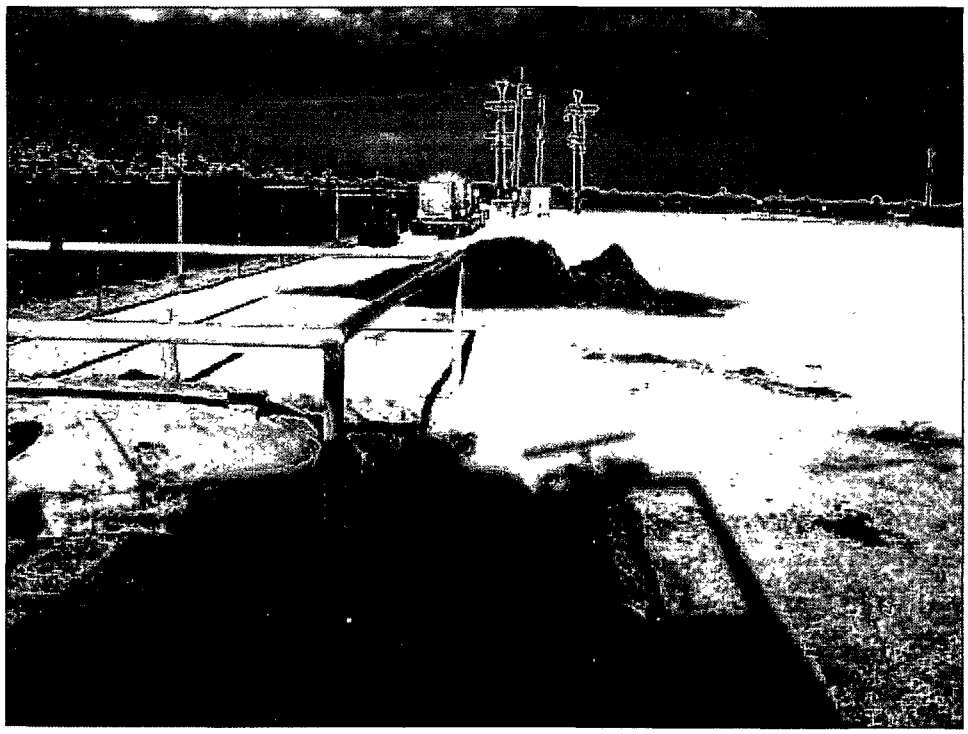
View Facing Down: Soil Removed from Eastern Wall of Tank 2

View Facing Down: Soil Removed from Northern Side of Tank 2

View Facing Down: Soil Removed from Southern Side of Tank 2

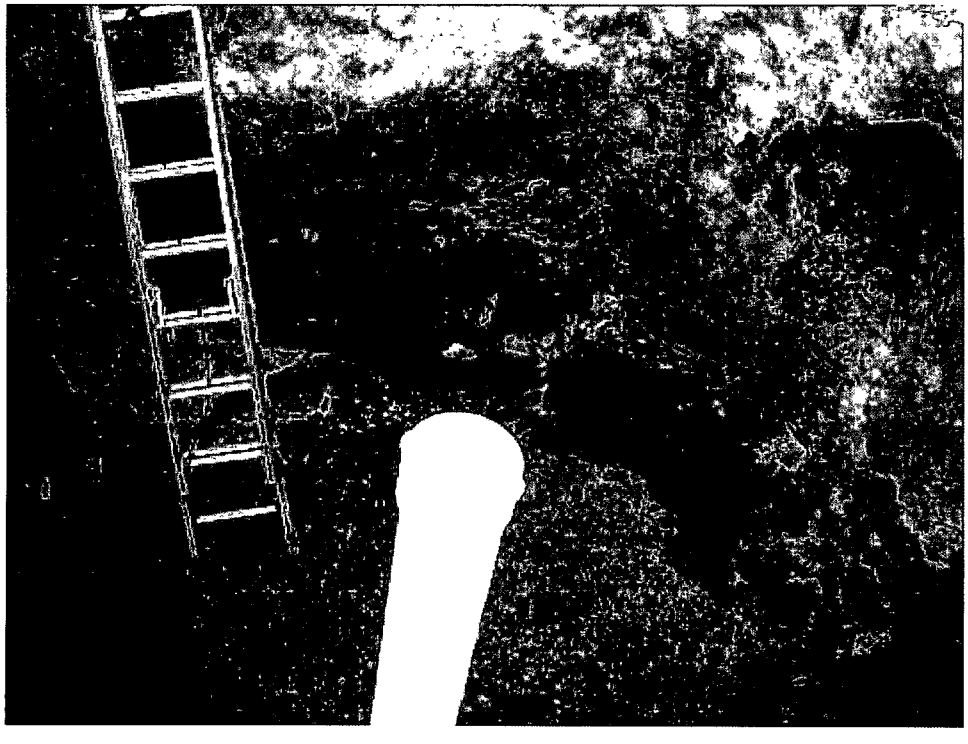


View Facing Down: Soil Removed from Western Side of Tank 2



View Facing West: Tank 2 Soil Pile

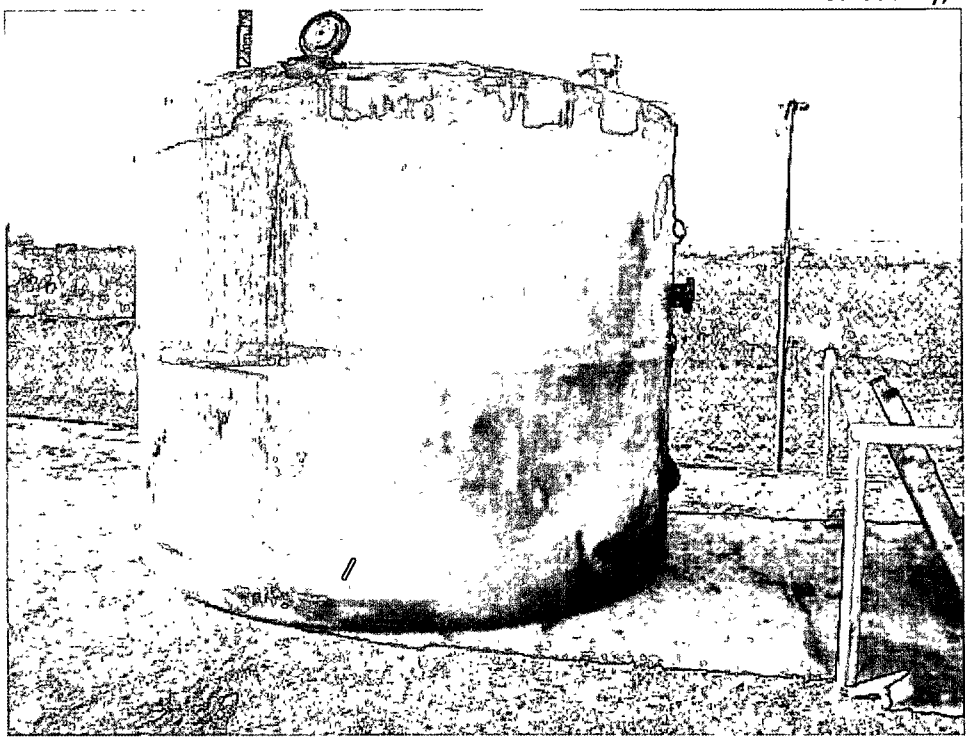
View Facing SSW: Backhoe Removing Tank 2 from Excavation



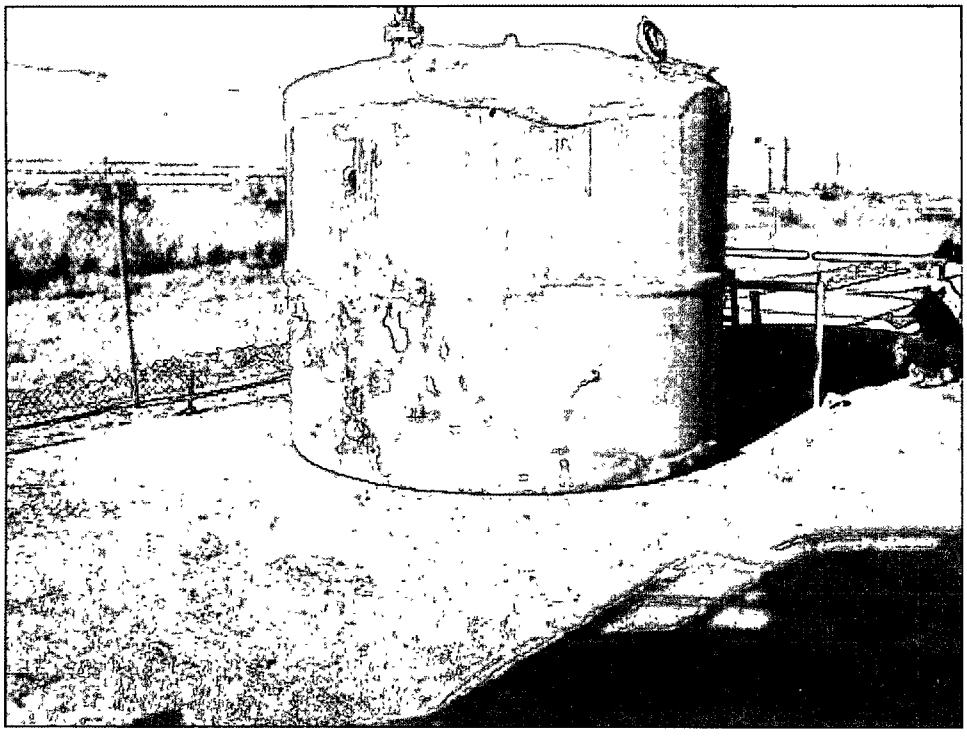
View Facing Down: Excavation West Wall

View Facing Down: Excavation South Wall

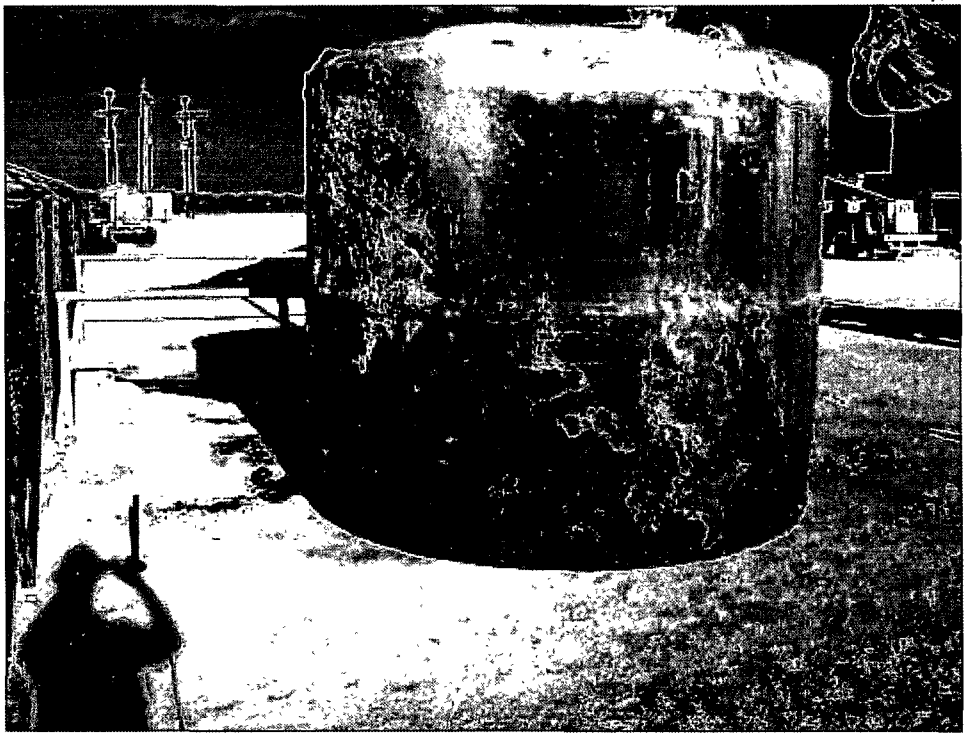
View Facing Down: Excavation West Wall



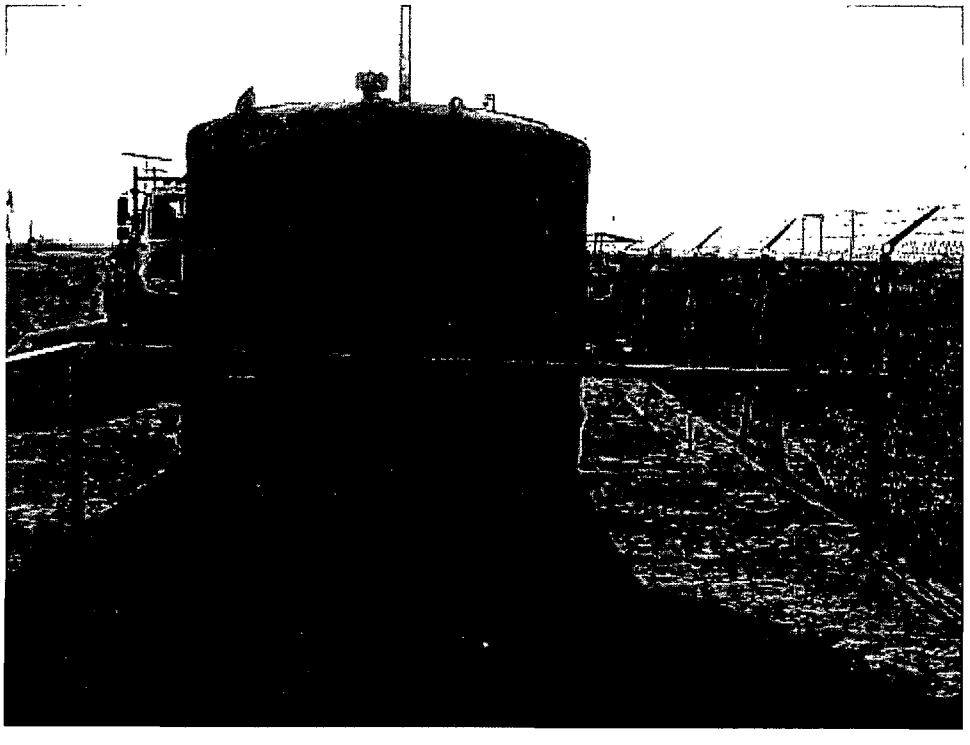
View Facing SSE: Outer Wall of Tank 2



View Facing SW: Outer Wall of Tank 2



View Facing West: Outer Wall of Tank 2



View Facing East: Outer Wall of Tank 2

View Facing Down: Installing Slip Plate Cover to Discharge Line

View Facing North Inside Excavation: Stained Soil on North Wall of Excavation

Attachment C

Laboratory Report

DHL ANALYTICAL

September 03, 2009

Michelle Green
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

TEL: (432) 687-0901
FAX: (432) 687-0456

Order No: 0908283

RE: XTO EMSU - Central Battery Tank 2

Dear Michelle Green:

DHL Analytical received 3 sample(s) on 8/27/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-09-TX

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to: M. Green

DATE: 8-26-09 PAGE 1 OF 1
PO #: LAB WORK ORDER #: 0908283
PROJECT LOCATION OR NAME: XTO - EMSU - Central Battery Tank 2
LAI PROJECT #: 8-0137 COLLECTOR: D. McGinnis

TRRP report? ☐ Yes ☐ No
TIME ZONE: Time zone/State: MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☑ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
Tank-2 Bottom	01	8-26	0750	S	2				✓		✓	✓															✓	
Tank-2 N. Wall	02	8-26	0755	S	2				✓		✓	✓															✓	
Tank-2 Soil Pile	03	8-26	0800	S	2				✓		✓	✓															✓	
TOTAL																												

RELINQUISHED BY: (Signature) DATE/TIME 8-26-09 / 1440 RECEIVED BY: (Signature) LSO
RELINQUISHED BY: (Signature) LSO DATE/TIME 9/27/09 0830 RECEIVED BY: (Signature) Akhaneck
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 2.4°C THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # LSO
☐ HAND DELIVERED

Lone Star Overnight

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 43386697

43386697

1. To:
Print Name (Person):
Phone (Important): 512-388-8222
Company Name: DHL Analytical
Street Address (No P.O. Box or P.O. Box Zip Code Deliveries): 2300 Double Creek Drive
Suite / Floor:
City: Round Rock State: TX Zip: 78664

2. From:
Print Name (Person): MICHELLE GREEN
Phone (Important): 432-687-0901
Company Name: LARSON & ASSOCIATES
Street Address: 507 NORTH MARIENFELD
Suite / Floor: 200
City: MIDLAND State: TX Zip: 79701

3. Service:
- [x] By 10:30am Delivery (Noon to select zip codes.)
- [ ] By 8:30am Delivery (Most Cities) (Extra Charge, No Signature Obtained)
- [ ] Saturday Delivery - By 12 Noon (Extra Charge)
- [ ] Other ____________
- [ ] Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L______ x W______ x H______

4. Package:
Weight: 20lbs.
Your Company's Billing Reference Information
Ship Date: (mm/dd/yy) / /

5. Payment:

FOR COURIER USE ONLY
Courier Number: 2232
Pick-up Location:
Date: 6/24
Time: 1400
Facility Code:

LIMIT OF LIABILITY. We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (no ... exceed $25,000), 2) pay an a... nal fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Addition... itations of liability are con... in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SI... ATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

CUSTODY SEAL
DATE: 3-2-09
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name **Larson & Associates** Date Received: **8/27/2009**

Work Order Number **0908283** Received by **AK**

Checklist completed by: Signature 8/27/09 Date Reviewed by Initials 8/27/09 Date

Carrier name LoneStar

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.4 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted. _____ Person contacted _____

Contacted by: _____ Regarding. _____

Comments: _____

Corrective Action _____

Page 1 of 1

DHL Analytical Date: 09/03/09

CLIENT:	Larson & Associates	**CASE NARRATIVE**
Project:	XTO EMSU - Central Battery Tank 2	
Lab Order:	0908283	

Sample was analyzed using the methods outlined in the following references:

Method SW8021B - Volatile Organics by GC
Method E418.1 - TRPH Analysis
Method E300 - Anions Analysis
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 8/27/09. A total of 3 samples were received. The time of collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

VOLATILE ORGANICS ANALYSIS

For Volatile Organics by GC analysis sample Tank-2 N. Wall was diluted prior to analysis due to the nature of the sample (concentration of hydrocarbons).

For Volatile Organics analysis performed on 9/1/09 the surrogate recovery for sample Tank-2 Soil Pile was below control limits. This is flagged accordingly. This was due to matrix effect and confirmed by re-analysis. No further corrective actions were taken.

DHL Analytical

Date: 09/03/09

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Lab Order: 0908283

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0908283-01	Tank-2 Bottom		08/26/09 07:50 AM	08/27/09
0908283-02	Tank-2 N. Wall		08/26/09 07:55 AM	08/27/09
0908283-03	Tank-2 Soil Pile		08/26/09 08:00 AM	08/27/09

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Lab Order: 0908283

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0908283-01A	Tank-2 Bottom	08/26/09 07 50 AM	Soil	SW5030B	Purge and Trap Soils GC	09/01/09 08 37 AM	36929
0908283-01B	Tank-2 Bottom	08/26/09 07 50 AM	Soil	SW3550B	Soil Prep Sonication TRPH	09/02/09 09 30 AM	36964
	Tank-2 Bottom	08/26/09 07 50 AM	Soil	E300	Anion Prep	08/28/09 09 39 AM	36884
	Tank-2 Bottom	08/26/09 07 50 AM	Soil	D2216	Moisture Preparation	09/02/09 10 30 AM	36961
0908283-02A	Tank-2 N Wall	08/26/09 07 55 AM	Soil	SW5030B	Purge and Trap Soils GC	09/01/09 08 37 AM	36929
	Tank-2 N Wall	08/26/09 07 55 AM	Soil	SW5030B	Purge and Trap Soils GC	09/01/09 08 37 AM	36929
0908283-02B	Tank-2 N Wall	08/26/09 07 55 AM	Soil	SW3550B	Soil Prep Sonication TRPH	09/02/09 09 30 AM	36964
	Tank-2 N Wall	08/26/09 07 55 AM	Soil	E300	Anion Prep	08/28/09 09 39 AM	36884
	Tank-2 N Wall	08/26/09 07 55 AM	Soil	D2216	Moisture Preparation	09/02/09 10 30 AM	36961
0908283-03A	Tank-2 Soil Pile	08/26/09 08 00 AM	Soil	SW5030B	Purge and Trap Soils GC	09/01/09 08 37 AM	36929
0908283-03B	Tank-2 Soil Pile	08/26/09 08 00 AM	Soil	SW3550B	Soil Prep Sonication TRPH	09/02/09 09 30 AM	36964
	Tank-2 Soil Pile	08/26/09 08 00 AM	Soil	E300	Anion Prep	08/28/09 09 39 AM	36884
	Tank-2 Soil Pile	08/26/09 08 00 AM	Soil	D2216	Moisture Preparation	09/02/09 10 30 AM	36961

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Lab Order: 0908283

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0908283-01A	Tank-2 Bottom	Soil	SW8021B	Volatile Organics by GC	36929	1	09/01/09 02 54 PM	GC4_090901A
0908283-01B	Tank-2 Bottom	Soil	E300	Anions by IC method - Soil	36884	1	08/31/09 11 43 AM	IC2_090831A
	Tank-2 Bottom	Soil	D2216	Percent Moisture	36961	1	09/02/09 04 30 PM	PMOIST_090902A
	Tank-2 Bottom	Soil	E418 1	TRPH	36964	1	09/02/09 01 30 PM	IR207_090902A
0908283-02A	Tank-2 N Wall	Soil	SW8021B	Volatile Organics by GC	36929	50	09/01/09 03 38 PM	GC4_090901A
	Tank-2 N Wall	Soil	SW8021B	Volatile Organics by GC	36929	10	09/01/09 11 39 PM	GC4_090901A
0908283-02B	Tank-2 N Wall	Soil	E300	Anions by IC method - Soil	36884	10	08/31/09 12 57 PM	IC2_090831A
	Tank-2 N. Wall	Soil	D2216	Percent Moisture	36961	1	09/02/09 04 30 PM	PMOIST_090902A
	Tank-2 N Wall	Soil	E418 1	TRPH	36964	100	09/02/09 01 30 PM	IR207_090902A
0908283-03A	Tank-2 Soil Pile	Soil	SW8021B	Volatile Organics by GC	36929	1	09/01/09 03 16 PM	GC4_090901A
0908283-03B	Tank-2 Soil Pile	Soil	E300	Anions by IC method - Soil	36884	1	08/31/09 12 13 PM	IC2_090831A
	Tank-2 Soil Pile	Soil	D2216	Percent Moisture	36961	1	09/02/09 04 30 PM	PMOIST_090902A
	Tank-2 Soil Pile	Soil	E418 1	TRPH	36964	5	09/02/09 01 30 PM	IR207_090902A

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Project No: 8-0137
Lab Order: 0908283

Client Sample ID: Tank-2 Bottom
Lab ID: 0908283-01
Collection Date: 08/26/09 07:50 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Volatile Organics by GC		**SW8021B**					**Analyst: JAW**
Benzene	ND	0 00274	0 00456		mg/Kg-dry	1	09/01/09 02 54 PM
Ethylbenzene	ND	0 00456	0 0137		mg/Kg-dry	1	09/01/09 02 54 PM
Toluene	ND	0 00456	0 0137		mg/Kg-dry	1	09/01/09 02:54 PM
Xylenes, Total	ND	0 00456	0 0137		mg/Kg-dry	1	09/01/09 02 54 PM
Surr Tetrachloroethene	87 1	0	79 - 135		%REC	1	09/01/09 02.54 PM
TRPH		**E418.1**					**Analyst: JBC**
Petroleum Hydrocarbons, TR	65 0	5 20	10 4	N	mg/Kg-dry	1	09/02/09 01 30 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Chloride	5 58	5 16	5 16		mg/Kg-dry	1	08/31/09 11 43 AM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	3 80	0	0		WT%	1	09/02/09 04 30 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Project No: 8-0137
Lab Order: 0908283

Client Sample ID: Tank-2 N. Wall
Lab ID: 0908283-02
Collection Date: 08/26/09 07:55 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Volatile Organics by GC		**SW8021B**					**Analyst: JAW**
Benzene	ND	0 0295	0 0492		mg/Kg-dry	10	09/01/09 11 39 PM
Ethylbenzene	19 2	0 246	0 739		mg/Kg-dry	50	09/01/09 03 38 PM
Toluene	6 15	0 0492	0 148		mg/Kg-dry	10	09/01/09 11 39 PM
Xylenes, Total	66.4	0 246	0 739		mg/Kg-dry	50	09/01/09 03 38 PM
Surr Tetrachloroethene	108	0	79 - 135		%REC	10	09/01/09 11 39 PM
Surr Tetrachloroethene	92 1	0	79 - 135		%REC	50	09/01/09 03 38 PM
TRPH		**E418.1**					**Analyst: JBC**
Petroleum Hydrocarbons, TR	27900	557	1110	N	mg/Kg-dry	100	09/02/09 01 30 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Chloride	334	54 8	54 8		mg/Kg-dry	10	08/31/09 12 57 PM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	10 9	0	0		WT%	1	09/02/09 04 30 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: XTO EMSU - Central Battery Tank 2
Project No: 8-0137
Lab Order: 0908283

Client Sample ID: Tank-2 Soil Pile
Lab ID: 0908283-03
Collection Date: 08/26/09 08:00 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Volatile Organics by GC		**SW8021B**					**Analyst: JAW**
Benzene	ND	0 00303	0 00506		mg/Kg-dry	1	09/01/09 03 16 PM
Ethylbenzene	0 0940	0.00506	0 0152		mg/Kg-dry	1	09/01/09 03 16 PM
Toluene	ND	0 00506	0 0152		mg/Kg-dry	1	09/01/09 03.16 PM
Xylenes, Total	0 0716	0 00506	0 0152		mg/Kg-dry	1	09/01/09 03.16 PM
Surr Tetrachloroethene	62 4	0	79 - 135	S	%REC	1	09/01/09 03 16 PM
TRPH		**E418.1**					**Analyst: JBC**
Petroleum Hydrocarbons, TR	628	27 2	54 4	N	mg/Kg-dry	5	09/02/09 01 30 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Chloride	11 3	5 41	5 41		mg/Kg-dry	1	08/31/09 12 13 PM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	8.47	0	0		WT%	1	09/02/09 04 30 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_090901A

Sample ID:	LCS-36929	Batch ID:	36929	TestNo:	SW8021B	Units:	mg/Kg
SampType:	LCS	Run ID:	GC4_090901A	Analysis Date:	09/01/09 10:21 AM	Prep Date:	09/01/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0 0968	0 00500	0 1000	0	96 8	65	113			
Toluene	0 102	0 0150	0 1000	0	102	73	115			
Ethylbenzene	0 104	0 0150	0.1000	0	104	74	118			
Xylenes, Total	0 309	0.0150	0 3000	0	103	73	119			
Surr Tetrachloroethene	0 214		0 2000		107	79	135			

Sample ID:	MB-36929	Batch ID:	36929	TestNo:	SW8021B	Units:	mg/Kg
SampType:	MBLK	Run ID:	GC4_090901A	Analysis Date:	09/01/09 11.39 AM	Prep Date:	09/01/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	ND	0 00500								
Toluene	ND	0.0150								
Ethylbenzene	ND	0 0150								
Xylenes, Total	ND	0 0150								
Surr Tetrachloroethene	0 208		0 2000		104	79	135			

Sample ID:	0908302-15AMS	Batch ID:	36929	TestNo:	SW8021B	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GC4_090901A	Analysis Date:	09/01/09 10:10 PM	Prep Date:	09/01/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0 104	0.00579	0 1158	0	90 2	65	113			
Toluene	0 105	0 0174	0 1158	0	90 4	73	115			
Ethylbenzene	0 105	0 0174	0.1158	0	90 9	74	118			
Xylenes, Total	0 319	0 0174	0 3473	0	91 7	73	119			
Surr Tetrachloroethene	0 215		0 2316		92 8	79	135			

Sample ID:	0908302-15AMSD	Batch ID:	36929	TestNo:	SW8021B	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GC4_090901A	Analysis Date:	09/01/09 10:31 PM	Prep Date:	09/01/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Benzene	0 110	0 00579	0 1158	0	94 7	65	113	4.87	30	
Toluene	0 110	0 0174	0 1158	0	94 7	73	115	4.65	30	
Ethylbenzene	0 110	0 0174	0 1158	0	94 9	74	118	4 31	30	
Xylenes, Total	0 333	0 0174	0 3473	0	95 8	73	119	4 37	30	
Surr. Tetrachloroethene	0 218		0.2316		94.0	79	135	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_090901A

Sample ID:	ICV-090901	Batch ID:	R45275		TestNo:		SW8021B		Units:		mg/Kg
SampType:	ICV	Run ID:	GC4_090901A		Analysis Date:		09/01/09 09:58 AM		Prep Date:		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Benzene		0 196	0 00500	0 2000	0	97 8	85	115			
Toluene		0 205	0 0150	0 2000	0	103	85	115			
Ethylbenzene		0 208	0 0150	0 2000	0	104	85	115			
Xylenes, Total		0 619	0 0150	0 6000	0	103	85	115			
Surr Tetrachloroethene		0 227		0 2000		114	79	135			

Sample ID:	CCV1-090901	Batch ID:	R45275		TestNo:		SW8021B		Units:		mg/Kg
SampType:	CCV	Run ID:	GC4_090901A		Analysis Date:		09/01/09 04:22 PM		Prep Date:		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Benzene		0 0996	0 00500	0 1000	0	99 7	85	115			
Toluene		0 0986	0 0150	0.1000	0	98 6	85	115			
Ethylbenzene		0.101	0 0150	0.1000	0	101	85	115			
Xylenes, Total		0 304	0 0150	0 3000	0	101	85	115			
Surr Tetrachloroethene		0 173		0 2000		86 3	79	135			

Sample ID:	CCV2-090901	Batch ID:	R45275		TestNo:		SW8021B		Units:		mg/Kg
SampType:	CCV	Run ID:	GC4_090901A		Analysis Date:		09/01/09 09:04 PM		Prep Date:		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Benzene		0 0974	0 00500	0 1000	0	97 4	85	115			
Toluene		0 0998	0 0150	0 1000	0	99 8	85	115			
Ethylbenzene		0 101	0 0150	0.1000	0	101	85	115			
Xylenes, Total		0 303	0 0150	0 3000	0	101	85	115			
Surr Tetrachloroethene		0 168		0 2000		84 0	79	135			

Sample ID:	CCV3-090901	Batch ID:	R45275		TestNo:		SW8021B		Units:		mg/Kg
SampType:	CCV	Run ID:	GC4_090901A		Analysis Date:		09/02/09 12:44 AM		Prep Date:		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Benzene		0 101	0 00500	0 1000	0	101	85	115			
Toluene		0 0989	0 0150	0 1000	0	98 9	85	115			
Ethylbenzene		0 0998	0 0150	0 1000	0	99 8	85	115			
Xylenes, Total		0 298	0 0150	0 3000	0	99 4	85	115			
Surr Tetrachloroethene		0 169		0 2000		84.7	79	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090831A

Sample ID:	LCS-36884	**Batch ID:**	36884		**TestNo:**		E300			**Units:**	mg/Kg
SampType:	LCS	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 09:46 AM			**Prep Date:**	08/28/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		52 3	5.00	50.00	0	105	80	120			
Sample ID:	LCSD-36884	**Batch ID:**	36884		**TestNo:**		E300			**Units:**	mg/Kg
SampType:	LCSD	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 10:01 AM			**Prep Date:**	08/28/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		52.0	5 00	50.00	0	104	80	120	0 481	20	
Sample ID:	MB-36884	**Batch ID:**	36884		**TestNo:**		E300			**Units:**	mg/Kg
SampType:	MBLK	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 10:15 AM			**Prep Date:**	08/28/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		ND	5 00								
Sample ID:	0908282-01B MS	**Batch ID:**	36884		**TestNo:**		E300			**Units:**	mg/Kg-dry
SampType:	MS	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 12:27 PM			**Prep Date:**	08/28/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		68 8	5 60	56 04	11 59	102	80	120			
Sample ID:	0908282-01B MSD	**Batch ID:**	36884		**TestNo:**		E300			**Units:**	mg/Kg-dry
SampType:	MSD	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 12:42 PM			**Prep Date:**	08/28/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		69.5	5 60	56 04	11 59	103	80	120	1.03	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_090831A

Sample ID:	ICV-090831	**Batch ID:**	R45225		**TestNo:**		E300			**Units:**	mg/Kg
SampType:	ICV	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 09.23 AM			**Prep Date:**	08/31/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		26 9	5 00	25.00	0	108	90	110			

Sample ID:	CCV1-090831	**Batch ID:**	R45225		**TestNo:**		E300			**Units:**	mg/Kg
SampType:	CCV	**Run ID:**	IC2_090831A		**Analysis Date:**		08/31/09 01:11 PM			**Prep Date:**	08/31/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chloride		10 4	5 00	10.00	0	104	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_090902A

Sample ID:	LCS-36964	**Batch ID:**	36964		**TestNo:**		E418.1			**Units:**	mg/Kg
SampType:	LCS	**Run ID:**	IR207_090902A		**Analysis Date:**		09/02/09 01:30 PM			**Prep Date:**	09/02/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Petroleum Hydrocarbons, TR		92 5	10 0	100 0	0	92 5	80	120			N
Sample ID:	MB-36964	**Batch ID:**	36964		**TestNo:**		E418.1			**Units:**	mg/Kg
SampType:	MBLK	**Run ID:**	IR207_090902A		**Analysis Date:**		09/02/09 01:30 PM			**Prep Date:**	09/02/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Petroleum Hydrocarbons, TR		ND	10 0								N
Sample ID:	0908282-01B MS	**Batch ID:**	36964		**TestNo:**		E418.1			**Units:**	mg/Kg-dry
SampType:	MS	**Run ID:**	IR207_090902A		**Analysis Date:**		09/02/09 01:30 PM			**Prep Date:**	09/02/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Petroleum Hydrocarbons, TR		92 2	11 2	111.7	0	82 5	80	120			N
Sample ID:	0908282-01B MSD	**Batch ID:**	36964		**TestNo:**		E418.1			**Units:**	mg/Kg-dry
SampType:	MSD	**Run ID:**	IR207_090902A		**Analysis Date:**		09/02/09 01:30 PM			**Prep Date:**	09/02/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Petroleum Hydrocarbons, TR		98 4	11 2	112.4	0	87 5	80	120	6 48	20	N

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_090902A

Sample ID:	ICV-090902	Batch ID:	418_S-09/02/09	TestNo:		E418.1		Units:		mg/Kg	
SampType:	ICV	Run ID:	IR207_090902A	Analysis Date:		09/02/09 01:30 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		275	10 0	250.0	0	110	90	110			N

Sample ID:	CCV1-090902	Batch ID.	418_S-09/02/09	TestNo:		E418.1		Units:		mg/Kg	
SampType:	CCV	Run ID:	IR207_090902A	Analysis Date:		09/02/09 01:30 PM		Prep Date:			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Petroleum Hydrocarbons, TR		272	10 0	250 0	0	109	85	115			N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908283
Project: XTO EMSU - Central Battery Tank 2

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_090902A

Sample ID:	0908302-16B-DUP	**Batch ID:**	36961		**TestNo:**	D2216			**Units:**		WT%
SampType:	DUP	**Run ID:**	PMOIST_090902A		**Analysis Date:**	09/02/09 04:30 PM			**Prep Date:**		09/02/09
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Percent Moisture		34 2	0	0	33 58				1 89	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

Attachment D

Initial C-141

1RP-09-09-2286

RECEIVED
SEP 30 2009
HOBBSOCD

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 Permian Division-SE New Mexico	Contact: Rick Wilson/Production Foreman
Address: P.O. Box 700, Eunice, New Mexico 88231	Telephone No.: (575) 394-2089
Facility Name: EMSU-Central Battery Tank 2	Facility Type: Tank Battery-Nearest Well is EMSU Well #626 (API #30-025-31465)

Surface Owner: State of New Mexico	Mineral Owner	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Unit E	4	21S	36E					Lea

Latitude: 32° 30' 27.93" N **Longitude:** 103° 16' 33.28" W

NATURE OF RELEASE

Type of Release: Crude Oil & Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Below Grade Tank	Date & Hour of Occurrence: Unknown	Date and Hour of Discovery: 8/26/09/8:00 am MST
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATERS @ 150'

Describe Cause of Problem and Remedial Action Taken.: Below Grade Tank removed per OCD approved closure plan. Oil & produced water was incidentally released to adjacent soil when discharge line was disconnected for below grade tank. A flange blind cover was installed to discharge line flange to prevent further leakage of fluid. Initial composite sample (5-spot) from soils directly beneath the tank and leak detection system showed evidence of release. Discreet sample from stained area indicates release of hydrocarbons & chlorides to adjacent soil.

Describe Area Affected and Cleanup Action Taken.: *Impact limited to exposed soil on excavation north wall and adjacent to discharge line piping. No cleanup action was taken at this time. XTO proposes to excavate the TPH (27,900 mg/Kg) and Chlorides (334 mg/Kg) at location Tank-2 North Wall to delineate the TPH and Chlorides by field methods and collect a composite sample for laboratory confirmation when field observations indicate that the extent of contamination has been obtained.

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: John Fergerson, Larson & Associates, Inc. (Consultant)	ENV ENGINEER: Approved by ~~District Supervisor~~:
Title: Hydrogeologist	Approval Date: 09/30/09 Expiration Date: 11/30/09
E-mail Address: john@laenvironmental.com	Conditions of Approval: Attached ☐
Date: 9/16/09 Phone: (432) 687-0901	

* Attach Additional Sheets If Necessary