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Below-Grade Tank Closure Final Report

XTO Energy, Inc. 1RP-09-10-2311 Eunice Monument South Unit – Satellite 3 Unit D (NW/4, NW/4), Section 4, T21S, R36E Lea County, NM

Project No. 8-0141

Prepared by:

Larson and Associates, Inc. 507 North Marienfeld Street Suite 200 Midland, Texas 79701 432.687.0901

January 7, 2010

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1.0 Executive Summary

The following report documents the closure of a below-grade tank associated with the XTO Energy (XTO) Eunice Monument South Unit – Satellite 3 (Site) located in Lea County, New Mexico. The legal description of the Site is Unit D (NW/4, NW/4), Section 4, Township 21 South, Range 36 East (Figure 1). The geodetic location is N32° 31' 15.54", W103° 16' 28.50".

Closure activities consisted of notifications to the New Mexico Oil Conservation Division (OCD) and the landowner of record (New Mexico State Land Office), removal of below-grade tank and soil, the collection of soil samples, OCD issuance of a remediation case number and the subsequent investigation, backfilling and closure of the former below-grade tank. Activities were performed in conformance with New Mexico Administrative Code Rule 19.15.17 as amended June 16, 2008 and June 18, 2009.

2.0 Operator Information

Primary Contact: Address:	Mr. Rick Wilson XTO Energy Inc., Permian Division – SE New Mexico PO Box 700 Eunice, New Mexico 88231
Office:	575.394.2089 X2201
Secondary Contact: Address:	Guy Haykus XTO Energy Inc. Midland Office 200 N. Loraine Street, Suite 800 Midland, Texas 79701
Office:	432.682.8873

3.0 Closure Actions

3.1 Location and Siting Description

The Site has a geodetic location of N32° 31' 15.54", W103° 16' 28.50", and is located in rural Lea County, about 1 mile northwest of Oil Center, New Mexico. The nearest producing well is the EMSU Well #626, API # 30-025-29868. The approximately 0.7 acre Site contains the 90 barrel nominal capacity below-grade fiberglass tank, and ancillary production equipment. The Facility is covered with crushed caliche rock and is relatively flat (Figures 2 and 3).

The Facility's siting criteria presented the following findings:

- Groundwater is between 50 and 100 feet below the bottom of the below-grade tank, based on records from the New Mexico State Engineer (NMSE).
- No continuously flowing watercourse is within 300 horizontal feet of the Facility.
- No surface water features, including lakes, rivers, ponds, arroyos, lakebed, sinkhole, or playa lake, are located within 200 horizontal feet of Facility.
- No permanent residence, school, hospital, institution, or church is within 300 horizontal feet of Facility.

- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No fresh water wells or springs are located within 1000 horizontal feet of Facility.
- The Facility is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance.
- The Facility is not within 500 feet an area designated as wetlands.
- The Facility is not within an area overlying a subsurface mine.
- The Facility is not within an unstable area.
- The Facility is not within a 100-year flood plain.

3.2 Closure Plan and Approval

On December 12, 2008, Larson & Associates, Inc. (LAI), on behalf of XTO, submitted a below-grade tank closure plan to the OCD in Santa Fe and Hobbs, New Mexico, in accordance with an Agreed Scheduling Order (ASO-008) between XTO and OCD. The Closure Plan was approved and signed by the OCD representative Mr. Brad Jones on July 17, 2009. A copy of the signed C-144 closure plan is provided in Appendix A.

3.3 Landowner and OCD Notifications

In accordance with the approved closure plan and prior to commencing work, notification of closure was sent by XTO to the New Mexico State Land Office (the surface owner) and the OCD.

3.4 Tank Closure Activities

On October 14, 2009, XTO used a HydroVac truck to excavate around the tank, and a backhoe to remove the tank. Approximately 20 cubic yards of excavated soil were disposed at Sundance Services, Inc. (OCD Permit R5516/NM-01-0003) on November 14, 2009. Waste manifests are presented as Appendix B.

On the following day, October 15, 2009, LAI personnel collected a 5-part composite soil sample from the bottom (Satellite #3) of the excavation. A 5-part composite sample was also collected from the excavated soil pile for waste characterization (Satellite #3 Soil Pile).

Xenco Laboratories, Inc. 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 (Appendix C).

No benzene, BTEX, or TPH was detected in the excavation bottom composite sample. However, chlorides were detected below the 250 milligram per kilogram (mg/kg) OCD reporting limit (75.7 mg/kg). Appendix C contains laboratory analytical reports for this project.

3.5 Excavation Backfilling

Pit backfilling consisted of compacting six- to eight-inch lifts of clean soil purchased from the State Caliche pit, a nearby supply, and compacting each lift with heavy equipment. The uppermost 18-inches consisted of topsoil purchased from the surface leasee, Mr. Tom Pearce. The topsoil was graded to level with the surrounding surface. Since the former tank was located within an active oilfield tank battery, the site was not drilled and reseeded. See Appendix D for photographs of the entire closure process.

An Initial and Final form C-141 was submitted to the OCD Hobbs office for excavation backfilling approval (Appendix E).

4.0 Conclusion and Recommendation

Based on the documented activities performed in conformance with the OCD-approved below-grade tank closure plan, LAI recommends final closure for this Site.

Table 1 Soil Analytical Data Summary EMSU - Satellite #3 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0141

Sample ID	Date	Benzene	Ethyl benzene	Toluene	Total Xylenes	Total BTEX	TRPH	Chlorides
Reporting Limit		0.2				50	100	250
Satellite 3 Bottom	10/15/2009	<0.0012	<0.0012	<0.0023	<0.0012	<0.0012	<11.5	75.7
Satellite 3 Soil Pile	10/15/2009	<0.0013	0.0023	<0.0025	0.0111	<0.0013	12,300	102

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.

Table 1 Soil Analytical Data Summary EMSU - Satellite #3 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0141

Sample ID Date		TPH	Chlorides	
RRAL:			250	
Satellite-3 Fill	12/16/2009	234	5.72	

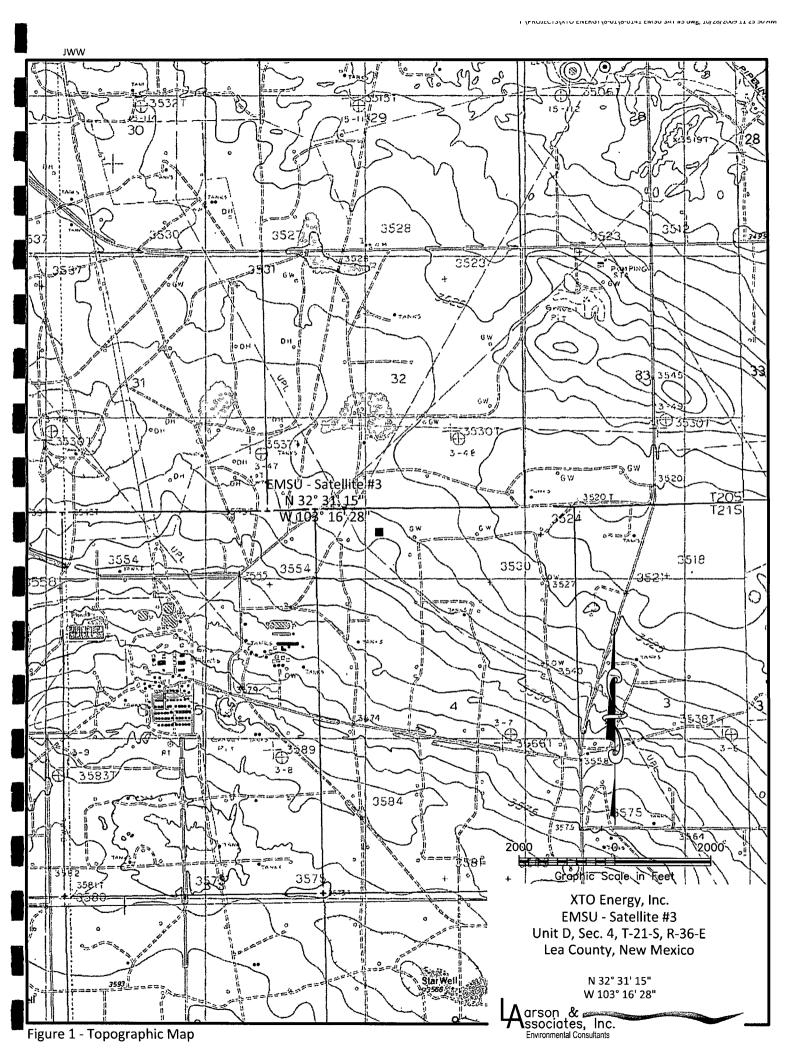
Notes

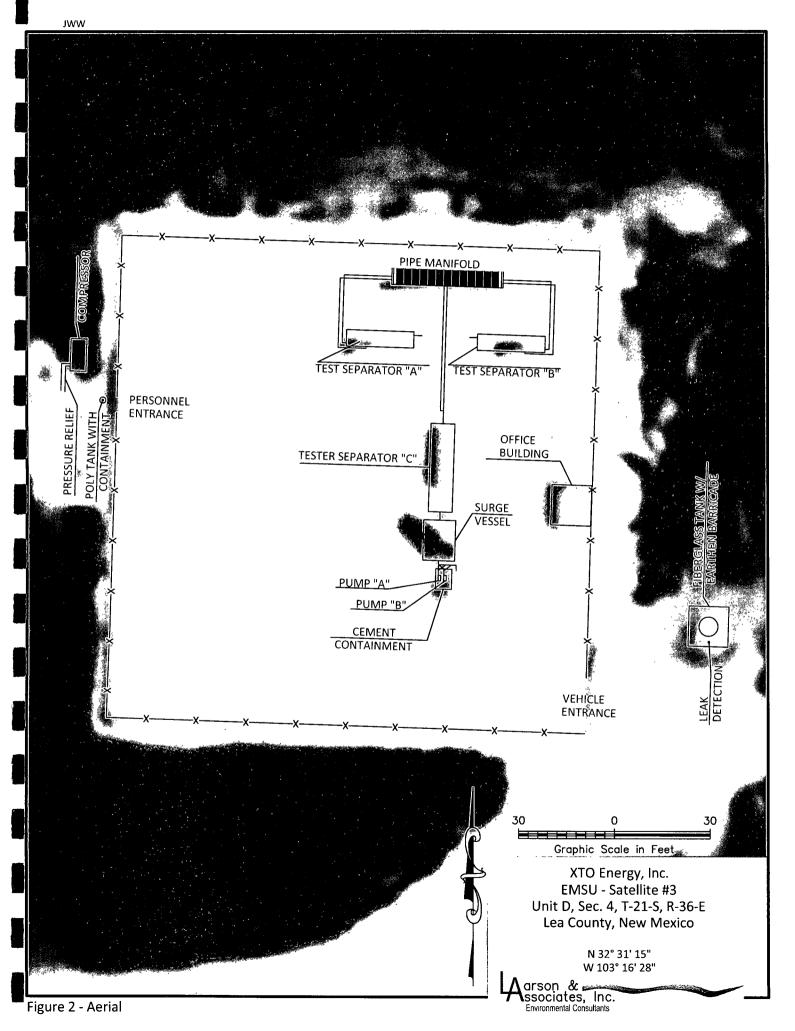
RRAL - Recommended Remediation Action Level

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.





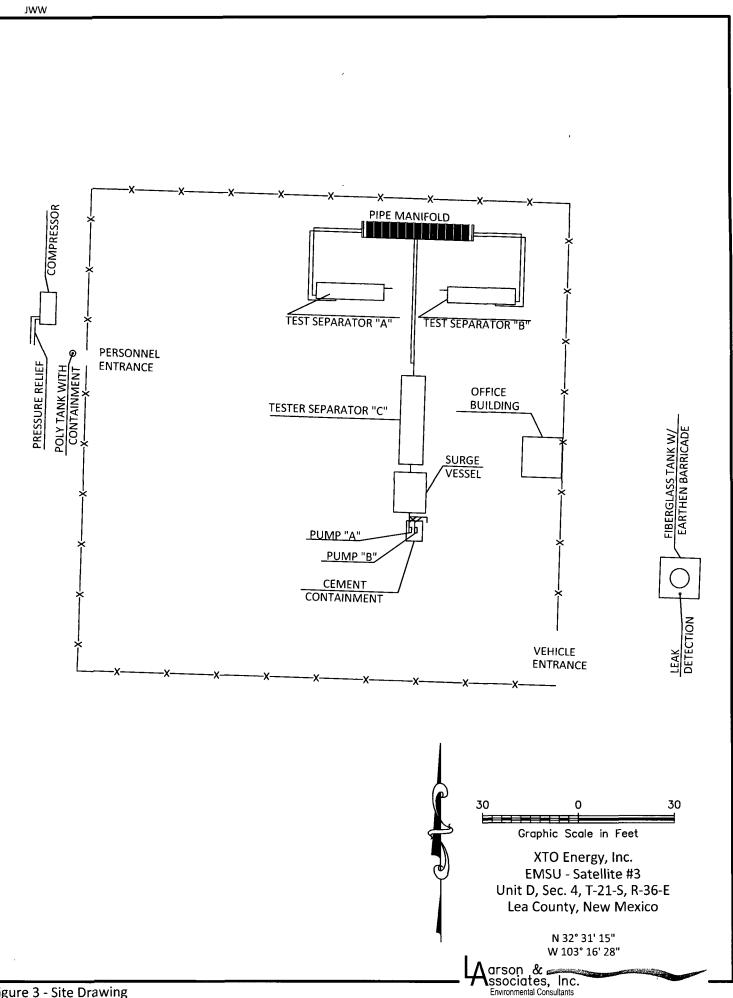


Figure 3 - Site Drawing

I / TUDECI 3/410 ENERGI (0-0140-0141 ENISO SAT #3 UWE, 10/20/2003 11 30 3/ AN

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: <u>XTO ENERGY, INC.</u> OGRID #: <u>5380</u>
Address: PERMIAN DIVISION-SE NEW MEXICO, P.O. BOX 700, EUNICE, NEW MEXICO 88231
Facility or well name: EMSU-SATELLITE #3/EMSU-WELL NO. 626 (Nearest Well)
API Number: 30-025-29868 (EMSU Well No. 182) OCD Permit Number:
U/L or Qtr/Qtr <u>Unit D</u> Section <u>4</u> Township <u>21S</u> Range <u>36E</u> County <u>LEA</u>
Center of Proposed Design: Latitude 32° 31' 15.54'' N Longitude 103° 16' 28.50" W NAD: 1927 X 1983
Surface Owner: 🗋 Federal 🗍 State 🔀 Private 📋 Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 90 bbl Type of fluid: OIL & PRODUCED WATER Tank Construction material: FIBERGLASS Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other LEAK DETECTION, METAL BARRICADE, EARTHEN BERM Liner type: Thickness mil HDPE PVC Other
s. S. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing:	Subsection D of 19.15.17.1	NMAC (Applies to permanent pe	its, temporary pits,	and below-grade tanks)
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Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify_

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen 🗌 Netting 🔲 Other_

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval. —
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	🗌 Yes 🗌 No
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗍 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗋 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached.
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
 Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:
Previously Approved Design (attach copy of design) API Number:
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

d Steel Tanks or Haul-off Bins Only: (19.15.17.13.D) , drilling fluids and drill cuttings. Use attachment if mo	VMAC) re than two
Disposal Facility Permit Number	
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occur on or in areas that will not be used for future service	e and operations?
ions: ite requirements of Subsection H of 19.15.17.13 NMAC in I of 19.15.17.13 NMAC ction G of 19.15.17.13 NMAC	
te closure plan. Recommendations of acceptable source tire administrative approval from the appropriate distri- tal Bureau office for consideration of approval. Justific for guidance.	ct office or may be
ata obtained from hearby wells	 ☐ Yes ⊠ No ☐ NA
ata obtained from nearby wells 4/17/09	⊠ Yes □ No □ NA
ata obtained from nearby wells	□ Yes⊠ No □ NA
ignificant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🛛 No
ch in existence at the time of initial application. lite image	⊡ Yes⊠-No
ess than five households use for domestic or stock r spring, in existence at the time of initial application. n (certification) of the proposed site	🗌 Yes 🖾 No
ater well field covered under a municipal ordinance oval obtained from the municipality	🗋 Yes 🗵 No
sual inspection (certification) of the proposed site	Yes 🛛 No
ing and Mineral Division	□ Yes⊠ No
ogy & Mineral Resources; USGS; NM Geological	Yes 🛛 No
	🗌 Yes 🛛 No
the following items must be attached to the closure p cquirements of 19.15.17.18 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC g pad) - based upon the appropriate requirements of 19 .15.17.13 NMAC	Jor Appro
	drilling fluids and drill cuttings. Use attachment if mo Disposal Facility Permit Number: Dispostant from nearby wells

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 I Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Derator Application Certification: I hereby certify that the information submitted with this application is true, accurate an	d complete to the best of my knowledge and belief.
Farrie (Print): U. G. HAYKAUS	Title: PRISQUETION SUPERINTENDENT
Signature: W. Dl. Laybour	Date: 12/12/08
e-mail address: william_haykus @ XTO ENERgy.com	Telephone: 432-620-6705
P. DCD Approval: Permit Application (including closure plan) Closure Plan (or	
OCD Representative Signature;	Approval Date: = = 1/1=7/09
Fitle: Environmental Engineer OC	D Permit Number:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of Instructions: Operators are required to obtain an approved closure plan prior to imp The closure report is required to be submitted to the division within 60 days of the co section of the form until an approved closure plan has been obtained and the closure	plementing any closure activities and submitting the closure report. Impletion of the closure activities. Please do not complete this
	Closure Completion Date:
 22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative If different from approved plan, please explain. 	e Closure Method 🔲 Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems Th</u> Instructions: Please indentify the facility or facilities for where the liquids, drilling two facilities were utilized.	
	isposal Facility Permit Number:
Disposal Facility Name: D	visposal Facility Permit Number:
Yes (If yes, please demonstrate compliance to the items below)	areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	:
24. Closure Report Attachment Checklist: Instructions: Each of the following items mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Disposal Facility Name and Permit Number Disposal Facility Name and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	a must be attached to the closure report. Please indicate, by a check ame: <u>Sundance Services, Inc</u> Permit Number: <u>R5516/NM-01-0003</u> 103° 16' 28.50" W NAD: 1927
25.	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure reported belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print): W.G. Haykus	Title: <u>Production Superintendent</u>
Signature: ULHCuppers	Date: 01/08/10
e-mail address: <u>williamhaykus@xtoenergy.com</u>	Telephone:432.620.6705
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Sundance Services, Inc. PIO. Box 1737 ★ Eunice, New Mexico 88231 (375) 394-2511 IEASE OPERATOR/SHIPPER/COMPANY: X70 LEASE OPERATOR/SHIPPER/COMPANY: X70 LEASE NAME: EMOST Sat. # 3 TRANSPORTER COMPANY: C.W. Backhoe TIMES: 45 AMPM DATE: 11/4/09 VEHICLE NO.: T-4 GENERATOR COMPANY MAN'S NAME: Gene Hud 301 CHARGE TO: X70 RIC or API # VOLUME OF MATERIAL [] BBLS. [] OPERATOR/SHIPPED KERSENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED WITH THIS NO REAL CONSERVICES. INC :S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS NOR ALL STOR ALL SHIPPED WITH THIS MATERIAL [] BBLS. [] AS A CONDITION TO SUNDANCE SERVICES. INC :S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS MARE MATERIAL [] BBLS. [] AS A CONDITION TO SUNDANCE SERVICES. INC :S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS MARE MATERIAL [] BBLS. [] AS A CONDITION TO SUNDANCE SERVICES. INC :S ACCEPTANCE OF THE MATERIAL SHIPPED WITH THIS MATERIAL [] BBLS. [] AS A CONDITION AND ARCEOVERY ACTOR		
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CHARGE FO. X / ZO AND NUMBER TYPE OF MATERIAL [] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms XI Contaminated Soll [] Jet Out [] Solids [] B\$&W Content: [] Call Out Description: D [] RRC or API # VOLUME OF MATERIAL [] BBLS. : XI YARD ZO : [] As A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL, SHIPPED HEREWITH IS MATERIAL [] BBLS. MATERIAL SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL, SHIPPED HEREWITH IS MATERIAL, EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
[] Production Water [] Drilling Fluids [] Rinsate [] Tank Bottoms X Contaminated Soll [] Jet Out [] Solids [] BS&W Content: [] Call Out Description: D [] Call Out RRC or API # [] BBLS. [] WARD 20: [] AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL, EXEMPT PROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
[] Tank Bottoms X Contaminated Soll [] Jet Out [] Solids [] B\$&W Content: [] Call Out Description: DD RRC or API # VOLUME OF MATERIAL [] BBLS. : AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL, EXEMPT PROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
[] Tank Bottoms X Contaminated Soll [] Jet Out [] Solids [] B\$&W Content: [] Call Out Description: D [] Call Out RRC or API # [] BBLS. [] XARD VOLUME OF MATERIAL [] BBLS. [] WARD [] Contaminated Soli AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS IOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL, EXEMPT PROM THE RESOURCE. CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
RRC or API # VOLUME OF MATERIAL [] BBLS: XYARD 20: [] AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL, EXEMPT PROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL, EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
VOLUME OF MATERIAL [] BBLS. : XYARD 20: [] AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL, SHIPPED HEREWITH IS MATERIAL, EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT PROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT PROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OP 1976, AS AMENDED FROM TIME		
THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES. INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL		
THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (SIGNATURE) (SIGNATURE) (SIGNATURE)		
White - Sundance Canaty - Sundance Acci #1 L'ink - Transporter Revised 09/09 Superior Printing Service, In		

Analytical Report 348795

for

Larson & Associates

Project Manager: Michelle Green

XTO-EMSU Satellite # 3

8-0141

22-OCT-09





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)



22-OCT-09



Project Manager: Michelle Green Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 348795 XTO-EMSU Satellite # 3 Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 348795. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 348795 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 348795



Larson & Associates, Midland, TX

XTO-EMSU Satellite # 3

Sample Id	Matrix	Date Collected Sample Depth	Lab Sample Id
Satellite # 3	S	Oct-15-09 10:15	348795-001
Satellite 3 Soil Pile	S	Oct-15-09 13:20	348795-002

CASE NARRATIVE



Client Name: Larson & Associates Project Name: XTO-EMSU Satellite # 3

Project ID: 8-0141 Work Order Number: 348795 Report Date: 22-OCT-09 Date Received: 10/16/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-777626 BTEX-MTBE EPA 8021B SW8021BM

Batch 777626, Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 348795-002, -001. The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, o-Xylene is within Iaboratory Control Limits

Batch: LBA-777740 Percent Moisture None

Batch: LBA-777745 Inorganic Anions by EPA 300 None

Batch: LBA-778126 TPH by EPA 418.1 None



Project Location:

Project Id: 8-0141

Contact: Michelle Green

Certificate of Analysis Summary 548795

Larson & Associates, Midland, TX

Project Name: XTO-EMSU Satellite # 3



Date Received in Lab: Fri Oct-16-09 03:10 pm

Report Date: 22-OCT-09

Project Manager: Brent Barron, II

	Lab Id:	348795-001	348795-002		
Anglusis Paguastad	Field Id:	Satellite # 3	Satellite 3 Soil Pile		
Analysis Requested	Depth:				
	Matrix:	SOIL	SOIL		
	Sampled:	Oct-15-09 10:15	Oct-15-09 13:20		
Anions by E300	Extracted:				
	Analyzed:	Oct-19-09 09:42	Oct-19-09 09.42		
	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		75.7 4 83	102 5.26		
BTEX by EPA 8021B	Extracted:	Oct-17-09 11:00	Oct-17-09 11:00		
	Analyzed:	Oct-17-09 16.47	Oct-17-09 17.08		
	Units/RL:	mg/kg RL	mg/kg RL		
Benzene		ND 0.0012	ND 0.0013		
Toluene		ND 0.0023	ND 0.0025		
Ethylbenzene		ND 0 0012	0.0023 0.0013		
m,p-Xylenes		ND 0 0023	0 0058 0 0025		
o-Xylene		ND 0.0012	0 0053 0 0013		
Total Xylenes		ND 0.0012	0 0111 0 0013		
Total BTEX		ND 0.0012	0.0134 0.0013		
Percent Moisture	Extracted:				
	Analyzed:	Oct-19-09 09.00	Oct-19-09 09:00		
	Units/RL:	% RL	% RL		
Percent Moisture		13.1 1.00	20.2 1.00		
TPH by EPA 418.1	Extracted:				
	Analyzed:	Oct-21-09 12.53	Oct-21-09 12:53		
	Units/RL:	mg/kg RL	mg/kg RL		
TPH, Total Petroleum Hydrocarbons		ND 11.5	12300 12.5		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Brent Barron, II Odessa Laboratory Manager

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: XTO-EMSU Satellite # 3

Lab Batch #: 777626	Sample: 540830-1-BKS/BK									
Units: mg/kg	Date Analyzed: 10/17/09 12:31	SURROGATE RECOVERY STUDY								
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag				
	Analytes			[D]		-				
1,4-Dıfluorobenzene		0.0298	0.0300	99	80-120					
4-Bromofluorobenzene		0.0311	0.0300	104	80-120					
Lab Batch #: 777626	Sample: 540830-1-BSD / BS	D Bate	h: ¹ Matrix	c: Solid						
Units: mg/kg	SU	RROGATE R	ECOVERY S	STUDY						
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag				
1,4-Difluorobenzene	Analytes	0.0296	0 0300	99	80-120					
4-Bromofluorobenzene		0.0290	0.0300	104	80-120					
					00 120					
Lab Batch #: 777626	Sample: 540830-1-BLK / BL Г		h: 1 Matrix RROGATE R		OTHINK					
Units: mg/kg	Date Analyzed: 10/17/09 13:35		RRUGATE R							
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag				
1,4-Difluorobenzene		0 0267	0 0300	89	80-120					
4-Bromofluorobenzene		0 0308	0.0300	103	80-120					
Lab Batch #: 777626	Sample: 348795-001 / SMP	Batc	h: 1 Matrix	r Soil	1					
Units: mg/kg	Date Analyzed: 10/17/09 16:47		RROGATE R		STUDY					
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag				
1,4-Difluorobenzene		0.0271	0 0300	90	80-120					
4-Bromofluorobenzene		0 0319	0 0300	106	80-120					
Lab Batch #: 777626	Sample: 348795-002 / SMP	Batc	h: 1 Matrix	c: Soil						
Units: mg/kg	Date Analyzed: 10/17/09 17:08	SU	RROGATE R	ECOVERY	STUDY					
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag				
1,4-Difluorobenzene		0.0266	0.0300	89	80-120					

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: XTO-EMSU Satellite # 3

Vork Orders : 348795 Lab Batch #: 777626	5, Sample: 348710-001 S / MS	5 Batcl		D: 8- 0141 ::Soil		
Units: mg/kg	Date Analyzed: 10/17/09 20:19	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0 0314	0.0300	105	80-120	
Lab Batch #: 777626	Sample: 348710-001 SD / N	ASD Bate	h: 1 Matrix	c: Soil		
Units: mg/kg	Date Analyzed: 10/17/09 20:40	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluorobenzene		0.0285	0.0300	95	80-120	
4-Bromofluorobenzene		0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.





V

Project Name: XTO-EMSU Satellite # 3

	Work Order #: 348795		Project ID:						
	Lab Batch #: 777745	Sample: 777	745-1	I-BKS	Matrix:	Solid			
	Date Analyzed: 10/19/2009	Date Prepared: 10/1	9/20	009 Analyst: LATCOR					
	Reporting Units: mg/kg	Batch #: 1	ſ	BLANK /BLANK SPIKE RECOVE				STUDY	
	Anions by E300	Blank Result		Spike Added	Blank Spike	Blank Spike	Control Limits	Flags	
	Analytes	[A]		[B]	Result [C]	%R [D]	%R		
٦	Chloride	ND		10.0	9.98	100	75-125		

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: XTO-EMSU Satellite # 3

Work Order #: 348795	Order #: 348795 Project ID: 8-0141										
Analyst: ASA	Da	ate Prepar	ed: 10/17/200	9		Date Analyzed: 10/17/2009					
Lab Batch ID: 777626 Sample: 540830-1-	BKS	KS Batch #: 1						Matrix: S	Solid		
Units: mg/kg		BLANK /BLANK SPIKE /				PIKE DUPL	LICATE	RECOVE	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0 1000	0 0826	83	01	0 0785	79	5	70-130	35	
Toluene	ND	0 1000	0 0819	82	01	0 0777	78	5	70-130	35	
Ethylbenzene	ND	0 1000	0.0835	84	0.1	0 0791	79	5	71-129	35	
m,p-Xylenes	ND	0 2000	0.1852	93	0.2	0.1754	88	5	70-135	35	
o-Xylene	ND	0 1000	0.0890	89	0.1	0.0847	85	5	71-133	35	
Analyst: ASA	D	ate Prepar	ed: 10/21/200	9			Date A	nalyzed: 1	0/21/2009		
Lab Batch ID: 778126 Sample: 778126-1-1	BKS	Batel	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / F	BLANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
TPH by EPA 418.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2500	2430	97	2500	2320	93	5	65-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: XTO-EMSU Satellite # 3

Vork Order #: 348795			0.0444				
Lab Batch #: 777745		Project ID	: 8-0141				
Date Analyzed: 10/19/2009	Date Prepared: 10/19/2009	Date Prepared: 10/19/2009Analyst: LATCOR					
QC- Sample ID: 348726-001 S	Batch #: 1	Batch #: 1 Matrix: Soil					
Reporting Units: mg/kg	MATRIX / M	ATRIX SPIKE RECO	VERY STUDY				
Inorganic Anions by EPA 300	Parent Sample Spike Result Added	Spiked Sample Result %R [C] [D]	Control Limits Flag %R				
Analytes	[A] [B]						
Chloride	102 212	293 90	75-125				

atrix Spike Percent Recovery [D] = 100*(C-A)/Bstative Percent Difference [E] = 200*(C-A)/(C+B)Il Results are based on MDL and Validated for QC Purposes

RL - Below Reporting Limit





Project Name: XTO-EMSU Satellite # 3



Work Order #: 348795						Project II	D: 8- 0141				
Lab Batch ID: 777626 Date Analyzed: 10/17/2009 Reporting Units: mg/kg	QC- Sample ID: Date Prepared:	10/17/2	009	An	•	ASA	k: Soil				
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	ATRIX SPIK Spiked Sample Result [C]		RIX SPI Spike Added [E]	KE DUPLICA Duplicate Spiked Sample Result [F]	Spiked	OVERY RPD %	STUDY Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1166	0 0733	63	0.1166	0 0738	63	1	70-130	35	X
Toluene	ND	0.1166	0 0735	63	0.1166	0 0743	64	1	70-130	35	х
Ethylbenzene	ND	0.1166	0.0747	64	0.1166	0 0740	63	1	71-129	35	x
m,p-Xylenes	ND	0.2332	0.1649	71	0.2332	0.1632	70	1	70-135	35	
o-Xylene	ND	0.1166	0.0791	68	0 1 1 6 6	0.0780	67	1	71-133	35	X
Lab Batch ID: 778126 Date Analyzed: 10/21/2009	QC- Sample ID: Date Prepared:	10/21/2	009	An		ASA	k: Soil				
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by EPA 418.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	2880	2950	102	2880	2940	102	0	65-135	35	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E





IJ

Project Name: XTO-EMSU Satellite # 3

Work Order #: 348795						
Lab Batch #: 777745				Project I	D: 8-0141	
Date Analyzed: 10/19/2009	Date Prepar	ed: 10/19/2009	Ana	lyst:LATC	COR	
QC- Sample ID: 348726-001 D	Batch	n#: 1	Mat	rix: Soil		
Reporting Units: mg/kg		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Chloride		102	101	1	20	
Lab Batch #: 777740						
Date Analyzed: 10/19/2009	Date Prepar	ed: 10/19/2009) Ana	lyst:LATC	COR	
QC- Sample ID: 348724-001 D	Batcl	n#: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Percent Moisture		12 0	12.2	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes BRL - Below Reporting Limit

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ADDITIONAL REPORT		ES 10:	·								-	_												, ,					
TRRP report? A=AIR OT=OTHER						A of Containers HC: HNO, HNO, NBOHD CE UNPRESERVED UNPRESERVED																							
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	Ŷ	, NHO3	р'so'н							(9) 4 4 4				3/2) 3/2) 2/2)		/3) 2/3/3 9/3	27 27. 27.	\$/£ \$/\$					FIELD NOTES
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EVINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)									TURN AROUND TIME LABORATORY USE ONLY: RUSH I CALL FIRST RECEIVING TEMP: 2.6 THERM # A7					тневм #:															
ELINQUISTED BY: (Signature) DATE/TIME POCHVED BY: (Signature) ELINQUISTED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)											1 DAY I CALL FIRST 2 DAY I CUSTODY SEALS - I BROKEN I INTACT, NOT US CONTRACT, NOT US CARRIER BILL #																		
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Larson & Ass	<u>50C.</u>
Date/ Time:	10.16.09	15:10
Lab ID # :	348795	5
Initials:	AL	

Sample Receipt Checklist

Client Initials

		\sim		Client Init
#1	Temperature of container/ cooler?	(Yes)	No	Z. (0 ° C
#2	Shipping container in good condition?	(Yes)	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	(Yes)	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yeg	No	
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Cres	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No	
#11	Containers supplied by ELOT?	(Yes)	No	
#12	Samples in proper container/ bottle?	(Yes)	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	(Yes)	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Xee	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yee	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

Variance Documentation

Contact:

Contacted by:

Date/ Time:

.

Regarding:

Corrective Action Taken:

Check all that Apply:

 \Box

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Analytical Report 355913

for

Larson & Associates

Project Manager: Michelle Green

EMSU Satellite # 3

8-0141

21-DEC-09





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917)



21-DEC-09



Project Manager: **Michelle Green** Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: **355913 EMSU Satellite # 3** Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 355913. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 355913 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 355913



Larson & Associates, Midland, TX

EMSU Satellite # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Satellite # 3 Fill	S	Dec-16-09 13:20		355913-001

CASE NARRATIVE



Client Name: Larson & Associates Project Name: EMSU Satellite # 3

Project ID: 8-0141 Work Order Number: 355913 Report Date: 21-DEC-09 Date Received: 12/16/2009

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786252 Percent Moisture None

Batch: LBA-786495 Inorganic Anions by EPA 300 None

Batch: LBA-786516 TPH by EPA 418.1 None



Certificate of Analysis Summary 355913

Larson & Associates, Midland, TX

Project Name: EMSU Satellite # 3



Project Id: 8-0141 Contact: Michelle Green

Project Location:

E

4

Date Received in Lab: Wed Dec-16-09 05:00 pm

Report Date: 21-DEC-09

Project Manager: Brent Barron, II

	Lab Id:	355913-001			
Analysis Requested	Field Id:	Satellite # 3 Fill			
Analysis Requested	Depth:		-		
	Matrix:	SOIL			
	Sampled:	Dec-16-09 13 20			
Anions by E300	Extracted:				
	Analyzed:	Dec-17-09 12 29			
	Units/RL:	mg/kg RL			
Chloride		5 72 4 38			
Percent Moisture	Extracted:				
	Analyzed:	Dec-17-09 17 00			
	Units/RL:	% RL			
Percent Moisture		4 04 1 00			
TPH by EPA 418.1	Extracted:				
	Analyzed:	Dec-21-09 09 30			
	Units/RL:	mg/kg RL			
TPH, Total Petroleum Hydrocarbons		234 10 4			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratores XENCO Laboratores assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager

Final Ver. 1.000





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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	Phone	Fax
4143 Greenbriar Dr. Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





Project Name: EMSU Satellite # 3

Work Order #: 355913		Project ID:								
Lab Batch #: 786495	Sample: 786495- Date Prepared: 12/17/20		Matrix:	Solid LATCOF	•					
Date Analyzed: 12/17/2009 Reporting Units: mg/kg	Batch #: 1	BLANK /I		STUDY						
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags				
Analytes	[A]	[B]	Result [C]	%R [D]	%R	_				
Chloride	ND	10 0	10 4	104	75-125					

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: EMSU Satellite # 3

Work Order #: 355913 Analyst: LATCOR Lab Batch ID: 786516	Sec. 10. 29(61(1 DV)	Da	-	ed: 12/21/200)9			Date A	ject ID: 8 nalyzed: 1 Matrix: 5	2/21/2009		
Units: mg/kg	Sample: 786516-1-BKS		Batch BLANI		SPIKE / E	BLANK S	PIKE DUPI				Ŷ	
TPH by EPA	Sample	ank e Result A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
TPH, Total Petroleum Hydrocarb	ons N	1D	2500	2580	103	2500	2660	106	3	65-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)]Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: EMSU Satellite # 3

Work Order #: 355913 Lab Batch #: 786495

Project ID: 8-0141

Date Analyzed: 12/17/2009 QC- Sample ID: 355911-001 S	Date Prepared: 12/17/2009 Batch #: 1		Analyst: L Matrix: S				
 Reporting Units: mg/kg	MATRIX / 1	MATRIX SPIKE	E RECOVERY STUDY				
Inorganic Anions by EPA 300	Parent Sample Spil Result Add		%R [D]	Control Limits %R	Flag		
Analytes	[A] [B]		[10]				
Chloride	9 79 105	122	107	75-125			

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: EMSU Satellite # 3



Work Order #: 355913						Project II	D: 8- 0141				
Lab Batch ID: 786516	QC- Sample ID:	355911	-001 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed: 12/21/2009	Date Prepared	12/21/2	009	An	alyst:	LATCOR					
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY :	STUDY]
TPH by EPA 418.1	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
TPH, Total Petroleum Hydrocarbons	13 9	2630	2520	95	2630	2750	104	9	65-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*[(C-F)/(C+F)] Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit





Project Name: EMSU Satellite # 3

Work Order #: 355913

Lab Batch #: 786495	Data Buanan	ad. 12/17/2000		-	D: 8-0141	
Date Analyzed: 12/17/2009 QC- Sample ID: 355911-001 D	Date Prepar Batch	ed: 12/17/2009 + #: 1		lyst:LATC rix: Soil	UK	
Reporting Units: mg/kg		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Chloride		9 79	8 96	9	20	
Lab Batch #: 786252						
Date Analyzed: 12/17/2009	Date Prepar	ed: 12/17/2009	9 Ana	lyst: WRU		
QC- Sample ID: 355930-001 D	Batch	1 #: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte			יען וען			
Percent Moisture		175	176	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes BRL - Below Reporting Limit

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Sample I.D.	Lab #	Za og Date	Time	Matrix	#	Ÿ	HNO3	H2S	Ŭ	Ŋ	X	*/×	$\frac{1}{3}$	54/-S	\$/s	30/88	\$_\$	3×0	9/3	2/5	75	× ×	X	X	¥	Ž?	<u>)</u>	\square			FIEI	D NC	TES	
ATELLITE # 3	107	12-16	13:20	3	2	-			X			4														X								
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Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

10.20

Client:	Larson & Assoc.
Date/ Time:	12.16.09 17:00
Lab ID # :	355913
Initials:	AL

Sample Receipt Checklist

					Cli	ent Initials
#1	Temperature of container/ cooler?	Tes	No	5.	°C	
#2	Shipping container in good condition?	(Yes)	No			
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Pre	senp	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Pre	sent	
#5	Chain of Custody present?	Yes	No			
#6	Sample instructions complete of Chain of Custody?	Yes	No			
#7	Chain of Custody signed when relinquished/ received?	Yes	No			
#8	Chain of Custody agrees with sample label(s)?	(Yes	No	ID written on	Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Appl	cable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No			
#11	Containers supplied by ELOT?	Yes	No			
#12	Samples in proper container/ bottle?	Yes	No	See Be	low	
#13	Samples properly preserved?	Yes	No	See Be	low	
#14	Sample bottles intact?	(Yes)	No			
#15	Preservations documented on Chain of Custody?	Yes	No			
#16	Containers documented on Chain of Custody?	(Yes)	No			
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Be	low	
#18		Tes	No	See Be	low	
#19	Subcontract of sample(s)?	Yes	No	Not Appl	icable)	
#20		(Yes)	No	Not Appl		

Variance Documentation

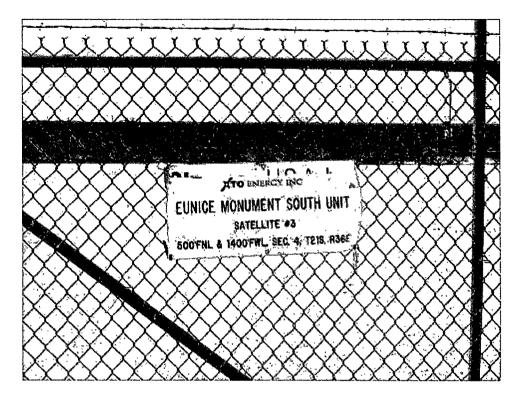
Contact:	Contacted by:	Date/ Time:
Regarding:		
Corrective Action Taken:		

Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

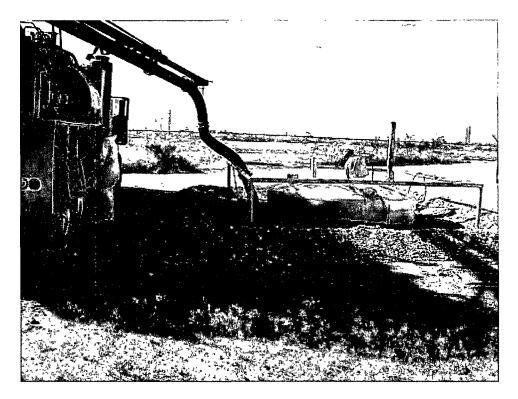
.



Site entrance placard

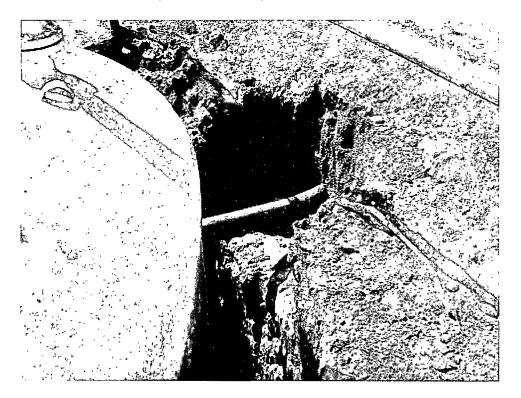


Below-grade tank being prepared for closure activities.

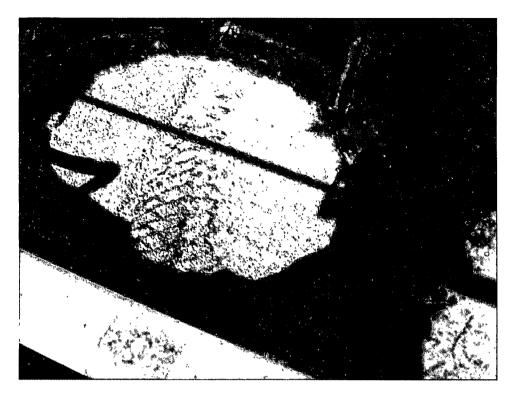


HydroVac removing soil around tank.

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Line connection lacked any visible staining.



View of excavation bottom; no staining noted.



Another view of the tankhold; no staining noted.



Tankhold refilled to grade.



Top soil placed as final fill lift. Tank closure is considered complete.

IRP-09-10-2311 RECEIVED															
	District I 1625 N. French	Dr., Hobbs, i	NM 88240		St	ate of]	New Mex	ico		-			F	form C-1	41
	District II 1301 W. Grand				Energy Mi	nerals a	and Natura	l Resour	ces J/	AIN I	1 2010			tober 10, 20	
	District III 1000 Rio Brazos	Road, Azte	c, NM 87410				vation Div		HC)8DS	SUUD	Submit 2 C District	Copies to Office in	o appropri n accordar	ate nce
	District IV 1220 S. St. Fran	cis Dr., Sant	a Fe, NM 87503	i			St. Franc NM 875					wi	ith Rule	116 on ba side of fo	
				Rel			Ínstanska statisticka		ve A	ction					
Release Notification and Corrective Action OPERATOR Initial Report Final R Name of Company: XTO Energy Permian Division – SE New Mexico Contact: Rick Wilson/Production Foreman Final R														Final Re	nort
	Name of Comp	any: XTO I	Energy Permian	Dıvision –	SE New Mexico	0	Contact: Rick	Wilson/Pro							
	Address: P.O. Facility Name:			ico 88231			<u>l'elephone No.</u> Facility Type:			rest Well	is EMSU #1	82 (API #30)-025-29	868)	
	Surface Ow	ner: State	of New Me	dico	Mineral C	Dwner					Lease N	lo.			
_					LOCA		OF RE	LEASE	,						
	Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from		East/V	Vest Line	County			
	D	4	215	36E									Lea		
د				Latit	ude: N 32° 31'	15.54"	Longitud	e: W 10	3° 16'	28.50"					
					NAT	TURE	OF REL	EASE							
	Type of Relea						Volume of	Release:				Recovered:			
	Source of Rel	ease: Belo	w Grade Tanl	ζ.			Date and H Unknown	lour of Oc	currenc	e:	Date and Unknown	Hour of Di	scovery	:	
	Was Immedia	te Notice (Vac N		anninad	If YES, To	Whom?		 ·					
	By Whom?	· · · · · · · · · · · · · · · · · · ·			No 🗌 Not R	equired	Date and H	lour							
	Was a Watero	ourse Read					If YES, Vo		acting t	he Wate	ercourse.				
				Yes 🛛											
	If a Watercou	rse was Im	pacted, Descri	be Fully.*	F										
	Describe Caus from bottom c	se of Proble of tank exca	em and Remea avation shows	lial Action no evider	n Taken.* Below nee of a release. 1	grade tai Propose t	nk removed p o close with	er OCD a clean soil.	ipprovec	l closure	e plan. Init	ial compos	ite sam	ple (5-spo	t)
					en.* Below grad	le tank re	moved and l	aboratory	sample	results	showed no	sign of rele	ease, the	refore, clo	osc
	tank excavatio	on per OCL	approved clo	sure plan.											
					is true and comp d/or file certain r										
	public health of	or the envir	onment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD m	arked as "	Final R	eport" d	loes not rel	ieve the op	erator o	f liability	
	should their of or the environ	perations ha	ave failed to a	dequately	investigate and r tance of a C-141	emediate	contaminati	on that po	ose a thr	eat to g	round wate	r, surface v ompliance	vater, hi with an	uman heal v other	th
┞	federal, state,	or local lav	vs and/or regu	lations.							-				
	۸	14	~~	\bigcap				OIL	CON	SERV	ATION	DIVISI	ON		
ļ	Signature:	$\mathcal{N}\mathcal{F}$	7170°	Jor	<u>م</u>			ENN E				~			
	Printed Name: C	Guy Haykus	- XTO Energy	\sim		/ ^	Approved by	District-S	Supervis	0F:	Acoff	reyte	RIMO	×	
	Title: Rody	region	s Super	UNDER	solent		Approval Date	: 11/02	109		Expiration I	Date: 01	021	10	
Ţ	E-mail Address:	William_ha	ykus@xtoenerg	y.com		(Conditions of A	Approval:				Attached	1 🗆		
	Date: 10/26/2009		Phone: (43		73										
	Attach Additi	onal Shee	ts If Necessa	ry -											

					IRP-	09-10-2311						
District I 1625 N. French District II 1301 W. Grand A District III 1000 Rio Brazos District IV 1220 S. St. Fran	Avenue, Arte Road, Azteo	sia, NM 88210 ;, NM 87410		Energy Mi Oil C 1220	nerals Conser South	New Mexi and Natural vation Div St. Franci e, NM 875	rision is Dr.	JAN 1 HOBB	1 2010	Submit 2	vised Oc Copies to Office i	Form C-141 tober 10, 2003 o appropriate n accordance to 16 on back side of form
			Rele	ase Notific	catior	n and Co	rrective	Action				
						OPERA	IOR		🗌 Initia	al Report		Final Report
Name of Comp	any: XTO B	nergy Permian	Division -	SE New Mexico		Contact: Rick	Wilson/Productio	on Foreman				
Address: P.O.	Box 700, Eu	nice, New Mex	ico 88231			Telephone No.:	(575) 394-2089)				
Facility Name:	EMSU – Sa	tellite No. 3				Facility Type:	Tank Battery - N	learest Well	is EMSU #	182 (API #3	0-025-29	868)
Surface Ow	ner: State	of New Me	kico	Mineral (Dwner				Lease N	lo.		
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter D	Section 4	Township 21S	Range 36E	Feet from the	North	/South Line	Feet from the	e East/V	/est Line	County	Lea	

Latitude: N 32° 31' 15.54" Longitude: W 103° 16' 28.50"

NATURE OF RELEASE

NATURE OF RELEASE		
Type of Release: Crude Oil and Water	Volume of Release: Unknown	Volume Recovered: N/A
Source of Release: Below Grade Tank	Date and Hour of Occurrence:	Date and Hour of Discovery:
	Unknown	Unknown
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🖾 No 🗌 Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.	
🗌 Yes 🛛 No		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Decklam and Deve did A dia Talant D 1 and 1 a D 2000 and 1 and 1 a D 1 and 1 a D 1		
Describe Cause of Problem and Remedial Action Taken.* Below grade tank removed per OCD approved closure plan. Initial composite sample (5-spot)		
from bottom of tank excavation shows no evidence of a release. Propose to close with clean soil.		
	•	
Describe Area Affected and Cleanup Action Taken.* Below grade tank removed and laboratory sample results showed no sign of release, therefore, close		
tank excavation per OCD approved closure plan.		
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.		
	OIL CONSERT	VATION DIVISION
	OIL CONSERV	VALION DIVISION
Signature: US Handburg	isold is laining	
	Approved by District Supervisor:	
Printed Name: Guy Haykus - XTO Energy	Typio ou of montoroupation.	Steeppray Jakmy
Title: PROduction Superintendent	Approval Date: 110209	Expiration Date:
E-mail Address: William_haykus@xtoenergy.com	Conditions of Approval:	Attached 🔲
Date: 10/26/2009 Phone: (432) 682-8873		

Attach Additional Sheets If Necessary