

February 23, 2010

HORRPOCD LER 50 5010 BECEINED

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

RE: Below-Grade Tank Closure Final Reports, XTO Energy, Inc., Eunice Monument South Unit, Satellite 11, Lea County, New Mexico

Dear Mr. Hill:

Please find enclosed the below-grade tank closure report for the above referenced site.

If you have any questions or concerns, please call me at 432.687.0901 to discuss.

Sincerely,

LARSON & ASSOCIATES, INC.

Michelle L. Green Environmental Scientist michelle@laenvironmental.com

Enclosure Below-Grade Tank Closure Final Report

CC Mr. Patrick Lyons, NM State Land Office, Santa Fe Mr. Guy Haykus, XTO Energy, Midland Mr. Jerry Parker, XTO Energy, SE New Mexico

RECEIVED

HOBREOCD

Below-Grade Tank Closure Final Report

XTO Energy, Inc. 1RP-10-2-2407 Eunice Monument South Unit – Satellite 11 Unit H (SE/4, NE/4), Section 15, T21S, R36E Lea County, NM

Project No. 8-0152

Prepared by:

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

February 22, 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 11 (Site) located in Lea County, New Mexico. The legal description of the Site is Unit H (SE/4, NE/4), Section 15, Township 21 South, Range 36 East (Figure 1). The geodetic location is N32° 28' 47.64", W103° 14' 44.94".

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° 28' 47.64", W103° 14' 44.94", and is located in rural Lea County, about 1 mile east-southeast of Oil Center, New Mexico. The nearest producing well is EMSU #389, API #30-025-04631. The approximately 0.6 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 more than 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.

Final Closure Report XTO Energy, Inc.

- No private, domestic fresh-water well or spring are within 500 horizontal feet of Facility.
- No fresh water wells or springs are located within 1,000 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 January 14, 2010, XTO used a HydroVac truck to excavate around the tank, and a backhoe to remove the tank. Approximately 30 barrels of soil were disposed at Sundance Services, Inc. (OCD Permit R5516/NM-01-0003). Waste manifests are presented as Appendix B.

LAI personnel collected a 5-part composite soil sample from the bottom (Satellite 11 Bottom) of the excavation.

The sample was analyzed for the following constituents: benzene, toluene, ethylbenzene, xylenes (BTEX) by method 8021B, total petroleum hydrocarbons (TPH) by method 418.1 and chloride by method 300.1. The samples Satellite 11 Bottom, (312 ppm) exceeded TPH OCD reporting level of 100 ppm. Laboratory analytical data is presented as Appendix C.

The OCD District 1 office issued remediation project number 1RP-10-2-2407.

The OCD soil remediation ranking criteria was applied:

Ranking Criteria		Ranking Score:
Depth to Groundwater:	>100 feet	0
Wellhead Protection Area:	No	0
Distance to Surface Water Body:	>1000 horizontal feet	0
Total Score		0

Recommended Remediation Action Levels		
Action Level (ppm)		
10		
10		
5,000		

Recommended Remediation Action Levels

The concentrations of benzene, total BTEX and TPH for the Satellite 11 Bottom composite sample was below the recommended remediation action levels of 10, 50 and 5,000 ppm, respectively.

3.5 Excavation Backfilling

Tankhold 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 lease owner, 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 requests approval of closure for this Site.

Table 1 Soil Analytical Data Summary EMSU - Satellite #11 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0152

Sample ID	Date	Benzene	Ethyl benzene	Toluene	Total Xylenes	Total BTEX	TRPH	Chlorides
Reporting Limit		0.2				50	100	250
RRAL:		10				50	5,000	250
Satellite 11 Bottom	1/14/2010	<0.0011	<0.0011	<0.0022	<0.0011	<0.0011	313	<4.55

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 #11 XTO Energy, Inc. Lea County, New Mexico Project No.: 8-0152

Sample ID Date		TPH	Chlorides
RRAL:			250
Satellite-11 Fill	2/12/2010	178	8.62

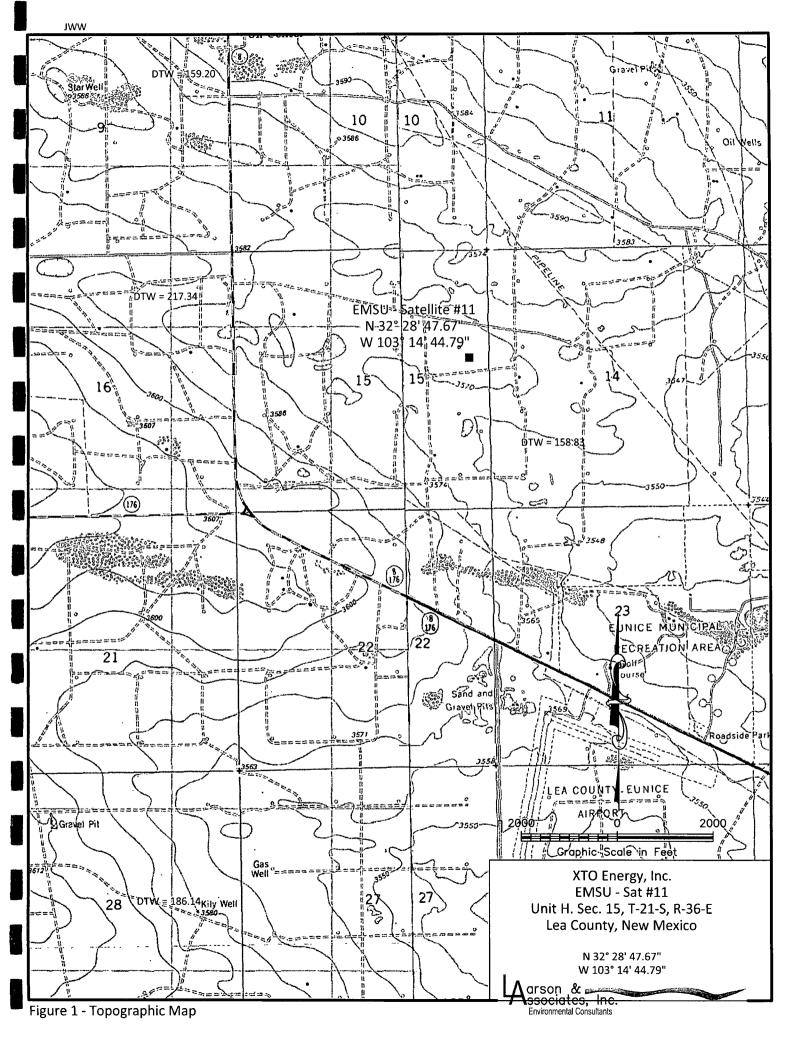
Notes

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.



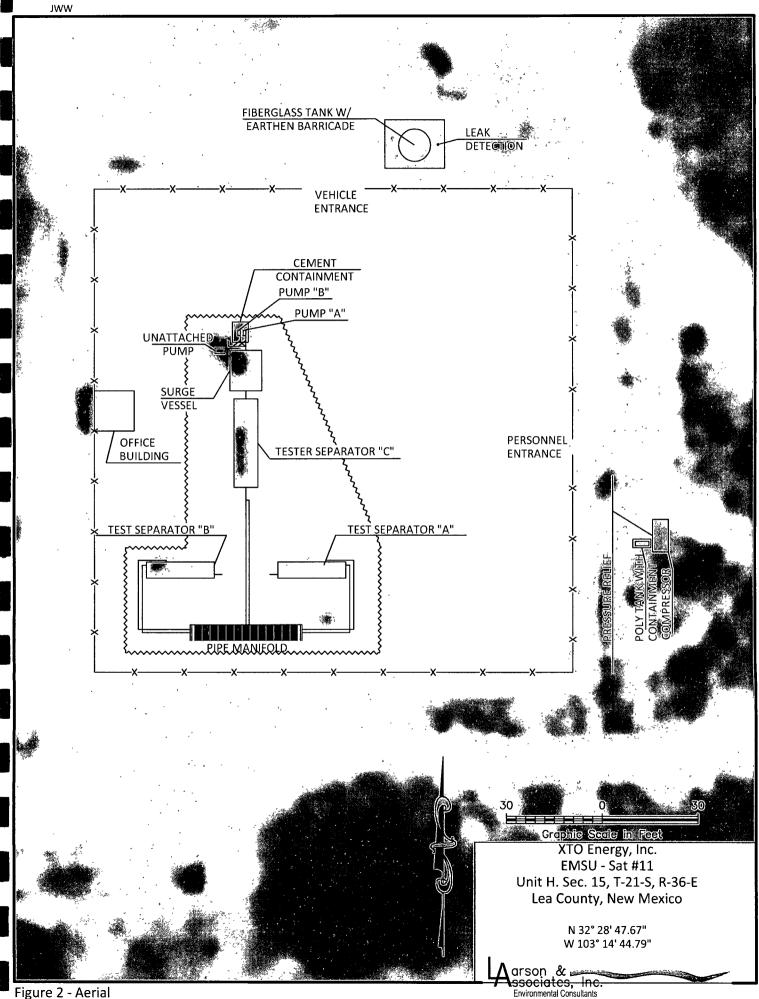
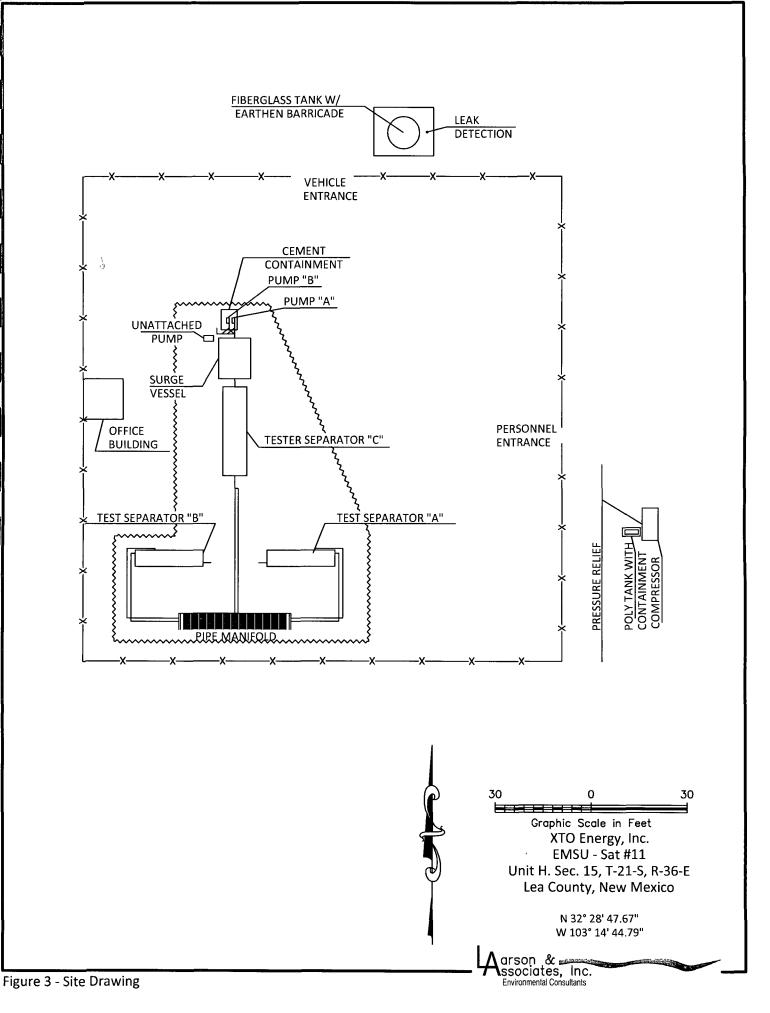


Figure 2 - Aerial



District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Gr District III 1000 Rio B District IV 1220 S. St.

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	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, Cl	osed-Loop System, Below-Grade	<u>Fank, or</u>
Proposed Alter	rnative Method Permit or Closure F	Plan Application
⊠ Closure ☐ Modifie	of a pit, closed-loop system, below-grade tank, o of a pit, closed-loop system, below-grade tank, o cation to an existing permit e plan only submitted for an existing permitted of ed alternative method	or proposed alternative method
Instructions: Please submit one applicat	ion (Form C-144) per individual pit, closed-loop syst	em, below-grade tank or alternative request
environment. Nor does approval relieve the operator o	t relieve the operator of liability should operations result i f its responsibility to comply with any other applicable go	
•	OGRID #: <u>5</u>	
Address: <u>PERMIAN DIVISION-SE NEW MEX</u>	ICO, P.O. BOX 700, EUNICE, NEW MEXICO 8823	1
Facility or well name: <u>EMSU-SATELLITE 11/EM</u>	MSU-WELL NO. 389 (Nearest Well)	
API Number: 30-025-04631 (EMSU Well No. 38	9) OCD Permit Number:	
U/L or Qtr/Qtr <u>Unit H</u> Section	15 Township 21S Range 36E Cou	nty LEA
Center of Proposed Design: Latitude 32° 28' 47	2.64" N Longitude <u>103° 14' 44.94</u>	4" W NAD: 1927 X 1983
Surface Owner: 🗌 Federal 🔲 State 🛛 Private 🗌] Tribal Trust or Indian Allotment	
String-Reinforced		
intent)	vell 🗍 Workover or Drilling (Applies to activities wh 🗌 Haul-off Bins 🗍 Other mil 门 LLDPE 🗍 HDPE 🗌 PVC 🗌	
Tank Construction material: Secondary containment with leak detection Visible sidewalls and liner	OIL & PRODUCED WATER	verflow shut-off METAL BARRICADE,
5.		

Form C-144

 Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, h institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
 7. 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) 	
 8. 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 	
 9. <u>Administrative Approvals and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	office for
^{10,} <u>Siting Criteria (regarding permitting)</u> : 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 approp 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 dryit 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. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 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
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. Closed-loop Systems 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. Image: Comparison of Compa
 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 Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
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 Image: Prevention 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 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 Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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

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16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if ma facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service of the proposed closed	
Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
^{17.} <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distri- considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ground water is more than 100 feet below the bottom of the buried waste	☐ Yes ⊠ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA
 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. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗵 No
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; 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
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Waste Material Sampling Plan - 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 or in case on-site closure standards can Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC 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 I of 19.15.17.13 NMAC 	hod Not poed or Appro 0.15.17.11 NMAC 7/17/00

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19.	·
Operator Application Certification:	1
I hereby certify that the information submitted with this application is true, accur	rate and complete to the best of my knowledge and belief.
Name (Print): W.G. HAykus	Title: PROduction SupERintendent
Signature: USBHOUDE	Date: 12/12/08
e-mail address: william_haykus @ XTO ENERgy. LON	Telephone: 432-620-6705
20. OCD Approval: D Permit Application (including closure plan) X Closure	Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: 7/17/09
Title: Finnental Figures	OCD Permit Number:
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the	r to implementing any closure activities and submitting the closure report. f the completion of the closure activities. Please do not complete this
22. <u>Closure Method:</u> X Waste Excavation and Removal If different from approved plan, please explain.	native Closure Method 🗌 Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop System</u> <i>Instructions: Please indentify the facility or facilities for where the liquids, du</i> <i>two facilities were utilized.</i>	
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on Yes (If yes, please demonstrate compliance to the items below) No	or in areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operal Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ations:
24. <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following	items must be attached to the closure report. Please indicate, by a check
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	
	ty Name: Sundance Services, Inc Permit Number: R5516/NM-01-0003
 Soil Backfilling and Cover Installation Rc-vcgetation Application Rates and Seeding Technique 	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude 32° 28' 47.64'' N Longitud	e <u>103° 14' 44.94" W</u> NAD: <u>1927</u> <u>⊠ 1983</u>
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	e report is true, accurate and complete to the best of my knowledge and ements and conditions specified in the approved closure plan.
Name (Print): W.G. Haykus	Title: Production Superintendent
	1 1
Signature: With Houton	Date: 02 22 10
signature: () 20 How Some com	Date: <u>22210</u> Telephone: <u>432.620.6705</u>

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P.O. Box 173	ICE Services, Inc. 37 ★ Eunice, New Mexico 88231 (575) 394-2511		.30800
LEASE OPERATOR/SH	IPPER/COMPANY: XTO		
LEASE NAME: EM	1511 #11		
TRANSPORTER COMP	PANY: SW Badger	TIME / S	53 AMAPM)
DATE: -4-10 VEH	ICLE NO .: 438 GENE	MAN'S NAME:	Hudson
CHARGE TO: XTC)	RIG NAMĚ AND NUMBER	<i>γ</i> , <i>σ</i> , <i>μ</i>
	TYPE OF MATER	IAL	
[] Production Water	[] Drilling Fluids	() Ainsate	
[] Tank Bottoms	[] Contaminated Solt] Jet Out	
Solids	[] BS&W Content:	[] Call Out	
JOB TICKET, OPERATOR/SHIPP	INDANCE SERVICES. INC.'S ACCEPTANCE	OF THE MATERIALS SHIPPET	WITH THIS
MATERIAL EXEMPT FROM TH TO TIME, 40 U.S.C. § 6901, of Re THERETO, BY VIRTUE OF THE	PER REPRESENTS AND WARRANTS THAT IE RESOURCE, CONSERVATION AND RECO IG., THE NM HEALTH AND SAF, CODE \$ 36 IE EXEMPTION AFFORDED DRILLING FLUI ORATION, DEVELOPMENT OR PRODUCTI	DVERY ACT OF 1976, AS AMEN 1001 et rog., AND REGULATIO DS, FRODUCED WATERS, AND	PED HEREWITH IS IDED FROM TIME NS RELATED OTHER WASTE
MATERIAL EXEMPT FROM TH TO TIME, 40 U.S.C. § 6901, of re THERETO, BY VIRTUE OP THE ASSOCIATED WITH THE EXPL GEOTHERMAL ENERGY. ALSO AS A CONDITION 1 10B TICKET. TRANSPORTER R	ie resource. Conservation and reco .q., the NM Health and Saf. Code 36. : Exemption afforded drilling flui	OVERY ACT OF 1976, AS AMEN 1001 et Rog., AND REGULATION DS, FRODUCED WATERS, AND ON OF CRUDE OIL OR NATUR ANCE OF THE MATERIALS SH THE MATERIAL DELIVERED	PED HEREWITH IS IDED FROM TIME NS RELATED O OTHER WASTE LAL GAS OR IMPPED WITH THIS BY
MATERIAL EXEMPT FROM TH TO TIME, 40 U.S.C. § 6901, st re THERETO, BY VIRTUE OF THE ASSOCIATED WITH THE EXPL GEOTHERMAL ENERGY. ALSO AS A CONDITION IOB TICKET. TRANSPORTER R OPERATOR/SHIPPER TO TRAN FACILITY FOR DISPOSAL. THIS WILL CERTIF Transporter Statement of N	IE RESOURCE. CONSERVATION AND RECO A., THE NM HEALTH AND SAF. CODE \$ 36. EXEMPTION AFFORDED DRILLING FLUE ORATION. DEVELOPMENT OR PRODUCTE TO SUNDANCE SERVICES. INC.'S ACCEPT EPRESENTS AND WARRANTS THAT ONLY SPORTER IS NOW DELIVERED BY TRANS Y that the above Transporter loaded he above described location, and that hat no additional materials were add.	DVERY ACT OF 1976, AS AMEN 1001 ET ROG., AND REGULATION DS, FRODUCED WATERS. AND ON OF CRUDE OIL OR NATUR ANCE OF THE MATERIALS SH THE MATERIAL DELIVERED PORTER TO SUNDANCE SERV the material represented it it was tendered by the al	PED HEREWITH IS IDED FROM TIME NS RELATED O OTHER WASTE IAL GAS OR INPPED WITH THIS BY ICES, INC.'S by this bove described
MATERIAL EXEMPT FROM TH TO TIME, 40 U.S.C. § 6901, st re THERETO. BY VIRTUE OF THE ASSOCIATED WITH THE EXPL GEOTHERMAL ENERGY. ALSO AS A CONDITION IOB TICKET. TRANSPORTER R OPERATOR/SHIPPER TO TRAN FACILITY FOR DISPOSAL. THIS WILL CERTIF Transporter Statement at In shipper. This will certify th	IE RESOURCE. CONSERVATION AND RECO IE, THE NM HEALTH AND SAF. CODE § 36. EXEMPTION AFFORDED DRILLING FLUI ORATION. DEVELOPMENT OR PRODUCTI TO SUNDANCE SERVICES. INC.'S ACCEPT IEPRESENTS AND WARRANTS THAT ONLY SPORTER IS NOW DELIVERED BY TRANS TY that the above Transporter loaded he above described location, and that hat no additional materials were add.	DVERY ACT OF 1976, AS AMEN 1001 ET ROG., AND REGULATION DS, FRODUCED WATERS. AND ON OF CRUDE OIL OR NATUR ANCE OF THE MATERIALS SH THE MATERIAL DELIVERED PORTER TO SUNDANCE SERV the material represented it it was tendered by the al	PED HEREWITH IS IDED FROM TIME NS RELATED O OTHER WASTE IAL GAS OR INPPED WITH THIS BY ICES, INC.'S by this bove described

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P.O. Box 1737	E Services, Inc. Eunice, New Maxico B8231 (575) 394-2513		130751
LEASE OPERATOR/SHIP	PER/COMPANY: X77)		
LEASE NAME: EN	JU #11		
TRANSPORTER COMPA		- TIME/O	24 AM/PM
DATE: 1/14/10 VEHIC		MAN'S NAME	
CHARGE TO: XTD		RIG NAME AND NUMBER	
	TYPE OF MATE	RIAL	
[] Production Water	[] Drilling Fluids	[] Rinsate	
[] Tank Bottoms	[] Contaminated Soli	[] Jet Out	
Solida	[] BS&W Content:	[] Call Out	
Description:	ds		
RRC or API #			
VOLUME OF MATERIAL	M BBLS. 15 :	[] YARD:	[]
JOB TICKET. OPERATOR/SHIPPEJ MATERIAL EXEMPT FROM THE TO TIME. 40 U.S.C. § 6901. et seq THERETO. BY VIRTUE OF THE EJ	DANCE SERVICES. INC.'S ACCEPTANC REPRESENTS AND WARRANTS THA RESOURCE. CONSERVATION AND RE THE NM HEALTH AND SAF. CODE & XEMPTION AFFORDED DRILLING FL VATION, DEVELOPMENT OR PRODUC	AT THE WASTE MATERIAL SE COVERY ACT OF 1976. AS AN 361.001 at asq., AND REGULAJ UIDS, PRODUCED WATERS, A	IIPPED HEREWITH IS MENDED FROM TIME TIONS RELATED AND OTHER WASTE
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Transporter Statement at the	that the above Transporter load above described location, and t no additional materials were ac	hat it was tendered by the	e above described
DRIVER:	Dala Sta Cri	us	
White - Sundance Canary - Sundance Revised 09/09	a Acct #1 Pink - Transporter		perior Printing Service. Inc.

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Analytical Report 358649

for

Larson & Associates

Project Manager: Michelle Green

EMSU Sat 11

8-0152

18-JAN-10



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)



18-JAN-10

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

Reference: XENCO Report No: 358649 EMSU Sat 11 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 358649. 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. 358649 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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The second se



Sample Cross Reference 358649

Larson & Associates, Midland, TX

EMSU Sat 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Satellite # 11 Bottom	S	Jan-14-10 13:30		358649-001

CASE NARRATIVE



Client Name: Larson & Associates Project Name: EMSU Sat 11

Project ID:8-0152Work Order Number:358649

Report Date: 18-JAN-10 Date Received: 01/14/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None
Analytical Non Conformances and Comments:

Batch: LBA-789643 Percent Moisture None

Batch: LBA-789653 Inorganic Anions by EPA 300 None

Batch: LBA-789701 TPH by EPA 418.1 None

Batch: LBA-789708 BTEX by EPA 8021B None



Certificate of Analysis Summary 358649

Larson & Associates, Midland, TX

Project Name: EMSU Sat 11

Project Id: 8-0152

Contact: Michelle Green

Project Location:

Date Received in Lab: Thu Jan-14-10 04:15 pm Report Date: 18-JAN-10

Project Manager: Brent Barron, II

ab Id:	358649-001			-		
eld Id:	Satellite # 11 Bottom					
Depth:						
fatrix:	SOIL					i
mpled:	Jan-14-10 13:30					
racted:						
alyzed:	Jan-15-10 11.40					
its/RL:	mg/kg RL					
	ND 4 55					
racted:	Jan-15-10 16:00					
alyzed:	Jan-16-10 19:04					
its/RL:	mg/kg RL					
	ND 0.0011					
	ND 0.0022					
	ND 0.0011	-				
	ND 0 0022					
	ND 0.0011					
	ND 0.0011					
racted:						
alyzed:	Jan-15-10 17.00					
its/RL:	% RL					
	7.79 1.00					
racted:						
alyzed:	Jan-18-10 10:18					
its/RL:	mg/kg RL					
	313 108					
	Lab Id: ield Id: Depth: Matrix: mpled: racted: alyzed: its/RL: alyzed: its/RL: alyzed: its/RL: alyzed: alyzed: its/RL: alyzed: its/RL:	ield Id: Satellite # 11 Bottom Depth: SOIL Matrix: SOIL mpled: Jan-14-10 13:30 racted: Impled: alyzed: Jan-15-10 11.40 its/RL: mg/kg RL ND 4 55 racted: Jan-15-10 16:00 alyzed: Jan-16-10 19:04 its/RL: mg/kg RL ND 0.0011 ND 0.0022 ND 0.0011 ND 0.0011 racted: Jan-15-10 17.00 % RL alyzed: Jan-18-10 10:18 mg/kg RL 7.79 1.00 racted: gan-18-10 10:18 mg/kg RL	ield Id: Satellite # 11 Bottom Depth: SOIL Matrix: SOIL mpled: Jan-14-10 13:30 racted:	ield Id: Satellite # 11 Bottom Depth: SOIL Matrix: SOIL mpled: Jan-14-10 13:30 racted: Jan-15-10 11.40 alyzed: Jan-15-10 11.40 its/RL: mg/kg ND 4 55 racted: Jan-15-10 16:00 alyzed: Jan-16-10 19:04 its/RL: mg/kg ND 0.0011 ND 0.0022 ND 0.0011 racted: Jan-15-10 17.00 its/RL: % RL 7.79 1.00 7.79 racted: Jan-18-10 10:18 its/RL: mg/kg RL	ield Id: Satellite # 11 Bottom Depth: SOIL mpled: Jan-14-10 13:30 racted: Jan-15-10 11.40 its/RL: mg/kg ND 4 55 racted: Jan-15-10 11.40 its/RL: mg/kg ND 4 55 racted: Jan-15-10 16:00 alyzed: Jan-16-10 19:04 its/RL: mg/kg ND 0.0011 ND 0.0022 ND 0.0011 Iss/RL: % RL 7.79 1.00 7.79 its/RL: mg/kg RL 1 its/RL: mg/kg </th <th>ield Id: Satellite # 11 Bottom Deptit: SOIL Matrix: SOIL mpled: Jan-14-10 13:30 racted: alyzed: alyzed: Jan-15-10 11.40 its/RL: mg/kg ND 4 55 racted: Jan-15-10 16:00 alyzed: Jan-16-10 19:04 its/RL: mg/kg RL MD ND 0.0011 ND 0.002 ND 0.0011 is/RL % ntation 1 ntation 1</th>	ield Id: Satellite # 11 Bottom Deptit: SOIL Matrix: SOIL mpled: Jan-14-10 13:30 racted: alyzed: alyzed: Jan-15-10 11.40 its/RL: mg/kg ND 4 55 racted: Jan-15-10 16:00 alyzed: Jan-16-10 19:04 its/RL: mg/kg RL MD ND 0.0011 ND 0.002 ND 0.0011 is/RL % ntation 1 ntation 1

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.

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Brent Barron, II

Odessa Laboratory Manager

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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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: EMSU Sat 11

Lab Batch #: 789708	Sample: 547806-1-BKS / BH			:Solid				
Units: mg/kg	Date Analyzed: 01/16/10 16:46	SURROGATE RECOVERY STUDY						
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag		
	Analytes			[D]				
1,4-Difluorobenzene		0.0330	0.0300	110	80-120			
4-Bromofluorobenzene		0.0323	0.0300	108	80-120			
Lab Batch #: 789708	Sample: 547806-1-BSD / BS	SD Batch	i: 1 Matrix	:Solid				
Units: mg/kg	Date Analyzed: 01/16/10 17:09	SUI	RROGATE R	ECOVERY	STUDY			
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag		
1,4-Difluorobenzene	Analytes	0.0322	0 0300	107	80-120			
4-Bromofluorobenzene		0.0322	0.0300	107	80-120 80-120			
					80-120			
Lab Batch #: 789708	Sample: 547806-1-BLK / Bl							
Units: mg/kg	Date Analyzed: 01/16/10 18:18	501	RROGATE R	ECOVERY				
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag		
1.4-Difluorobenzene		0.0265	0.0300	88	80-120			
4-Bromofluorobenzene		0.0302	0.0300	101	80-120			
Lab Batch #: 789708	Sample: 358649-001 / SMP	-	. 1 Motrix	u Soil				
	Sample: 556045-0017 Sivil	P Batch: 1 Matrix: Soil SURROGATE RECOVERY STUDY						
	D-4- Amel	SUI	RROGATE R	ECOVERY	STUDY			
Units: mg/kg	Date Analyzed: 01/16/10 19:04	SUI		ECOVERY	1			
	X by EPA 8021B	SUI Amount Found [A]	RROGATE R True Amount [B]	Recovery %R [D]	Control Limits %R	Flag		
BTE		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag		
	X by EPA 8021B	Amount Found	True Amount	Recovery %R	Control Limits %R 80-120	Flag		
BTE 1,4-Difluorobenzene 4-Bromofluorobenzene	X by EPA 8021B Analytes	Amount Found [A] 0.0278 0.0317	True Amount [B] 0.0300 0.0300	Recovery %R [D] 93 106	Control Limits %R	Flag		
BTE.	X by EPA 8021B	Amount Found [A] 0.0278 0.0317 Batch	True Amount [B] 0.0300 0.0300	Recovery %R [D] 93 106 c; Soil	Control Limits %R 80-120 80-120	Flag		
BTE 1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 789708 Units: mg/kg	X by EPA 8021B Analytes Sample: 358654-001 S / MS Date Analyzed: 01/17/10 00:22 X by EPA 8021B	Amount Found [A] 0.0278 0.0317 Batch	True Amount [B] 0.0300 0.0300 1: 1 Matrix	Recovery %R [D] 93 106 c: Soil ECOVERY Recovery %R	Control Limits %R 80-120 80-120			
BTE 1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 789708 Units: mg/kg	X by EPA 8021B Analytes Sample: 358654-001 S / MS Date Analyzed: 01/17/10 00:22	Amount Found [A] 0.0278 0.0317 5 Batch SUJ Amount Found	True Amount [B] 0.0300 0.0300 a: 1 Matrix RROGATE R True Amount	Recovery %R [D] 93 106 c: Soil ECOVERY Recovery	Control Limits %R 80-120 80-120 STUDY Control Limits	Flag		

* 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 / BAll results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EMSU Sat 11

Work Orders : 358649 Lab Batch #: 789708	, Sample: 358654-001 SD / N	Project ID: 8-0152 MSD Batch: 1 Matrix: Soil							
Units: mg/kg				SURROGATE RECOVERY STUDY					
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Dıfluorobenzene		0.0322	0.0300	107	80-120				
4-Bromofluorobenzene		0.0314	0.0300	105	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.



.



D

Project Name: EMSU Sat 11

Work Order #: 358649			8-0152			
Lab Batch #: 789653 Date Analyzed: 01/15/2010	Sample: 789653- Date Prepared: 01/15/20		Matrix: Solid Analyst: LATCOR			
Reporting Units: mg/kg	Batch #: 1		BLANK SPI			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	10.3	103	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 Sat 11

Work Order #: 358649								Proj	ject ID: 8	3-0152		
Analyst: ASA		Date Prepared: 01/15/2010							nalyzed: 0			
Lab Batch ID: 789708	Sample: 547806-1-BI	KS	Batch	h #: 1					Matrix: S	solid		
Units: mg/kg	ſ	—	BLAN!	K/BLANK S	SPIKE / F	JLANK S	PIKE DUP	LICATE I	RECOVE	RY STUD	νY	
BTEX by EPA	A 8021B	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	0.0985	99	01	0.0917	92	7	70-130	35	(
Toluene		ND	0.1000	0.0996	100	01	0.0925	93	7	70-130	35	
Ethylbenzene		ND	0.1000	0.1001	100	0.1	0 0929	93	7	71-129	35	
m,p-Xylenes	-	ND	0 2000	0.2040	102	0.2	0.1890	95	8	70-135	35	
o-Xylene		ND	0.1000	0.1071	107	0.1	0.0996	100	7	71-133	35	
Analyst: LATCOR		 D:	ate Prepar	ed: 01/18/201	10			Date Ar	nalyzed: 0)1/18/2010		
Lab Batch ID: 789701	Sample: 789701-1-BI	KS	Batch	h#: 1					Matrix: S	solid		
Units: mg/kg	[BLAN	K/BLANK S	SPIKE / F	JLANK S	PIKE DUPI	LICATE I	RECOVE	RY STUD	Y	
TPH by EPA Analytes	418.1	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
TPH, Total Petroleum Hydrocar	rbons	ND	2500	2870	115	2500	2870	115	0	65-135	35	<u> </u>

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

E	
Labor	ratories

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Form 3 - MS Recoveries





Vork Order #: 358649 Lab Batch #: 789653			Pro	ject ID:	8-0152				
Date Analyzed: 01/15/2010	Date Prepared: 01/15	Analyst: LATCOR							
QC- Sample ID: 358528-001 S	Batch #: 1	Matrix: Soil							
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY								
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[A]	[B]		1-3					
Chloride	41.9	105	153	106	75-125				

atrix Spike Percent Recovery [D] = 100*(C-A)/Blative 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: EMSU Sat 11



Work Order #: 358649	Project ID: 8-0152										
Lab Batch ID: 789708 Date Analyzed: 01/17/2010 Reporting Units: mg/kg	QC- Sample ID: Date Prepared:	01/15/2	010	An		1 Matrix ASA KE DUPLICA	k: Soil	OVERYS	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]		Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1036	0.0823	79	0.1038	0.0831	80	1	70-130	35	
Toluene	ND	0.1036	0.0804	78	0.1038	0.0823	79	2	70-130	35	
Ethylbenzene	ND	0.1036	0.0796	77	0.1038	0.0820	79	3	71-129	35	
m,p-Xylenes	ND	0.2072	0.1664	80	0.2076	0.1703	82	2	70-135	35	
o-Xylene	ND	0.1036	0.0872	84	0 1038	0.0890	86	2	71-133	35	
Lab Batch ID: 789701 Date Analyzed: 01/18/2010 Reporting Units: mg/kg	QC- Sample ID: Date Prepared:	01/18/2	010	An	··· •	l Matrix LATCOR KE DUPLICA	x: Soil 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	72.6	5230	5550	105	5230	5570	105	0	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



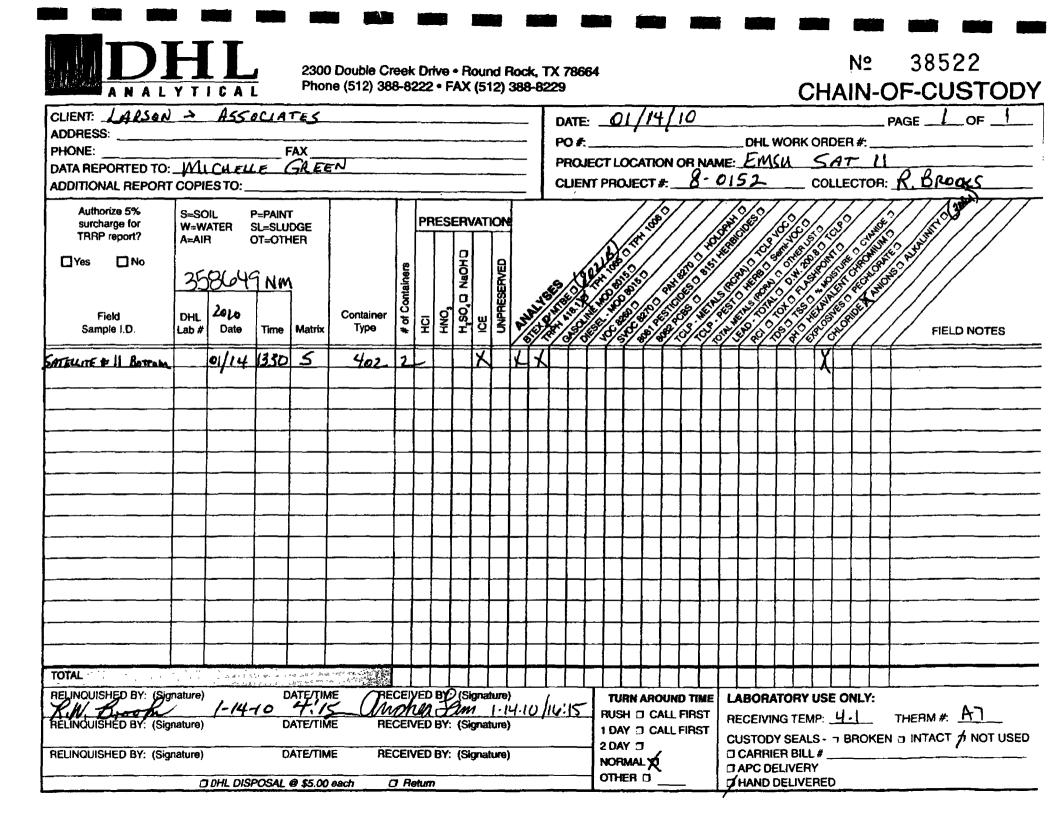
Sample Duplicate Recovery

Project Name: EMSU Sat 11

Work Order #: 358649

Lab Batch #: 789653				Project I	D: 8-0152	
Date Analyzed: 01/15/2010	Date Prepar	ed: 01/15/2010) Anal	yst:LATC	COR	
QC- Sample ID: 358528-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: mg/kg		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Chloride		41 9	42 9	2	20	
Lab Batch #: 789643						
Date Analyzed: 01/15/2010	Date Prepar	ed: 01/15/2010) Anal	yst:JLG		
QC- Sample ID: 358654-001 D	Batch	1 #: 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		3.67	4.31	16	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 11



Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Larson & Assoc.
Date/ Time:	1.14.10 10:15
Lab ID # :	358649
Initials:	AI

Sample Receipt Checklist

Client initials

#1	Temperature of container/ cooler?	T Ves 1	No	4.1 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	NotPresent	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	600	No		
#6	Sample instructions complete of Chain of Custody?	Tes	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 Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Mes	No		
#12	Samples in proper container/ bottle?	Crea	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	(CP)	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	res	No		
#17	Sufficient sample amount for indicated test(s)?	(198	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Analytical Report 362208

for

Larson & Associates

Project Manager: Michelle Green

EMSU Satellite # 11

8-0152

17-FEB-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-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 (LAO00312), 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-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)



17-FEB-10

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

Reference: XENCO Report No: 362208 EMSU Satellite # 11 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 362208. 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. 362208 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 362208



Larson & Associates, Midland, TX

EMSU Satellite # 11

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sat # 11 Fill	S	Feb-12-10 11:30		362208-001



CASE NARRATIVE

Client Name: Larson & Associates Project Name: EMSU Satellite # 11

Project ID:8-0152Work Order Number:362208

Report Date: 17-FEB-10 Date Received: 02/12/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None
Analytical Non Conformances and Comments:
Details 1.04, 202250, Demonst Maintaine

Batch: LBA-793759 Percent Moisture None

Batch: LBA-793823 Inorganic Anions by EPA 300 None

Batch: LBA-794201 TPH by EPA 418.1 None



Certificate of Analysis Summary 302208

Larson & Associates, Midland, TX

Project Name: EMSU Satellite # 11

Project Id: 8-0152

Contact: Michelle Green

Project Location:

Date Received in Lab: Fri Feb-12-10 04:00 pm

Report Date: 17-FEB-10

Project Manager: Brent Barron, II

	Lab Id:	362208-001
Analysis Requested	Field Id:	Sat # 11 Fill
Analysis Requested	Depth:	
	Matrix:	SOIL
	Sampled:	Feb-12-10 11:30
Anions by E300	Extracted:	
	Analyzed:	Feb-15-10 08.40
	Units/RL:	mg/kg RL
Chloride		8 62 4.73
Percent Moisture	Extracted:	
	Analyzed:	Feb-15-10 08:00
	Units/RL:	% RL
Percent Moisture		11.2 1 00
TPH by EPA 418.1	Extracted:	
	Analyzed:	Feb-17-10 12:52
	Units/RL:	mg/kg RL
TPH, Total Petroleum Hydrocarbons		178 11.3

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 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

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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Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116





D

Project Name: EMSU Satellite # 11

Work Order #: 362208			8-0152			
Lab Batch #: 793823	Sample: 793823-	1-BKS	Matrix:	Solid		
 Date Analyzed: 02/15/2010	Date Prepared: 02/15/20	010	Analyst	LATCOR	۲.	
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	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	9 60	96	75-125	

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







·

Project Name: EMSU Satellite # 11

Work Order #: 362208 Analyst: LATCOR Lab Batch ID: 794201	Sample: 794201-1-Bk		-	red: 02/17/201 h #: 1								
Units: mg/kg			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE I	RECOVE	ERY STUD	PΥ	
TPH by EPA		Blank Sample 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	oons	ND	2500	2560	102	2500	2570	103	0	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 # 11

Vork Order #: 362208 Lab Batch #: 793823			Pro	ject ID:	8-0152					
Date Analyzed: 02/15/2010	Date Prepared: 02/15	5/2010		Analyst: LATCOR						
QC- Sample ID: 362205-001 S	Batch #: 1		N	/Iatrix: S	oil					
Reporting Units: mg/kg	MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY				
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result	%R	Control Limits %R	Flag				
Analytes	[A]	[B]	[C]	[D]	70 N					
Chloride	133	215	317	86	75-125					

atrix Spike Percent Recovery [D] = 100*(C-A)/Belative 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: EMSU Satellite # 11



Work Order #: 362208

Project ID: 8-0152

Lab Batch ID: 794201 Date Analyzed: 02/17/2010	QC- Sample ID: Date Prepared:				itch #: alyst:	1 Matri: LATCOR	c: Soil				
Reporting Units: mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by EPA 418.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	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	178	2820	3140	105	2820	3090	103	2	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

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 # 11

Work Order #: 362208

Lab Batch #: 793823				Project I	D: 8-0152	
Date Analyzed: 02/15/2010	Date Prepare	ed: 02/15/2010) Ana	lyst:LATC	COR	
QC- Sample ID: 362205-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: mg/kg		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		. ,	[B]	}		
Chloride		133	126	5	20	
Lab Batch #: 793759						
Date Analyzed: 02/15/2010	Date Prepare	ed: 02/15/2010) Ana	lyst: WRU		
QC- Sample ID: 362205-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		7.16	7.28	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

.

Aarson a ssocial Environmente Data Reported to:				CLEE	N	Aidle	larie Ind, 2-68	ТΧ	797	01	200		DAT PO i PRC LAI	E: _ #: _)JE PR(CT DJE	LOC CT	CA1 #:_		0 V 8)r n - C		IE:_ デン	E	wol	RK GU	OR CO		R #:_	_ PA	GE	STC _OF_ = //	(
TRRP report?	s=soil W=wate A=air	P=P/ R SL=S	aint Sludge Other]		PF	RESE					1540	2 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Sax -	0000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ALL ST	0000	20 x x	C AN	10 10 10 10 10 10 10 10 10 10 10 10 10 1						C. C		J. J		
MST / /V M Field Sample I.D.	Lab #	2010 Date	Time	Matrix	# of Containers	Ę	ы Болн	H ₂ SO ₄ C	₽	UNPRE	ANA		8/1 8/19/00/00/00/00/00/00/00/00/00/00/00/00/00		10 10 10 10 10 10 10 10 10 10 10 10 10 1				\$/ \$/? ``				5×, 5/,5	5/E		3) 3) 3) 3)	Ser C	¥/		FIEI	D NOTE	S
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elinquished by:(5	ignature)		DATE/TIN	ME	RECEI	VED	BY:	(Sig	natu	re)				-	2 D/	AY 🗌)	CUSTODY SEALS - D BROKEN D INTACT NOT					ISE									

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Larson &	Assoc.
Date/ Time:	2.12.10	16:00
Lab ID # :	3622	<u>°8</u>
Initials	. AL	

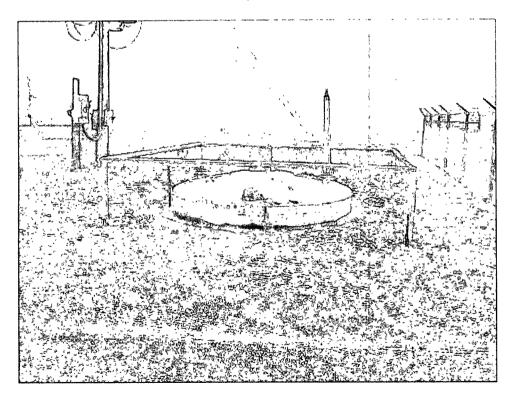
Sample Receipt Checklist

			Che	ent Iniția
1 Temperature of container/ cooler?	(Yes)	No	5,5 °C	il
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?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	Tes	No	ID written on Cont./ Lid	: }
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes	No		1
#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	ı
#14 Sample bottles intact?	Tes	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	Tes	No	<u>†</u> <u>†</u> -	,
#17 Sufficient sample amount for indicated test(s)?	Tes	No	See Below	
#18 All samples received within sufficient hold time?	TYes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable,	
#20 VOC samples have zero headspace?	Tes	No	Not Applicable	
Contacted by:		-	Date/ Time:	
Regarding:	-			
Corrective Action Taken:				
Check all that Apply: See attached e-mail/ fax	uid like to pro	reed with	. anal/cic	
Cooling process had begun				
		•		
		4		

Photodocumentation

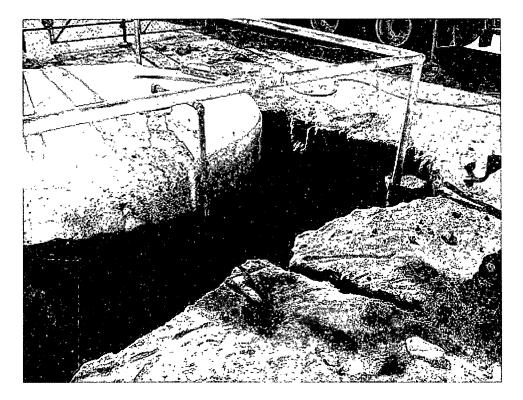


Facility Placard

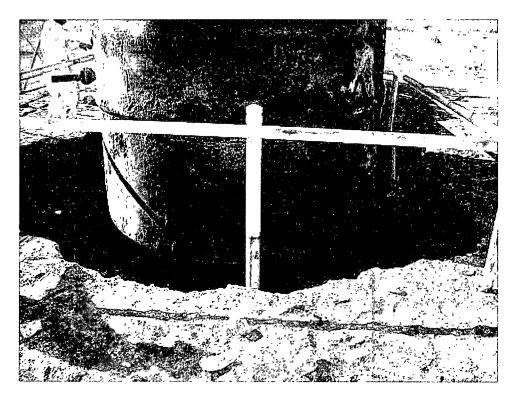


Below-grade tank prior to closure.

Photodocumentation

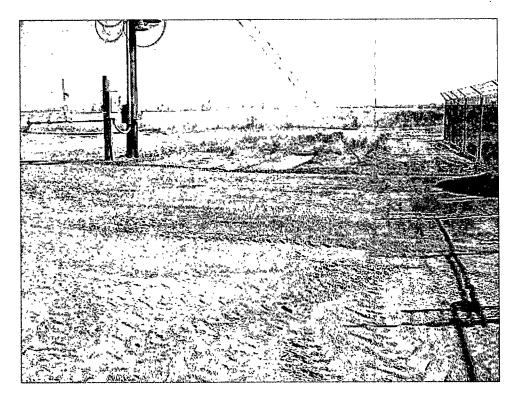


HydroVac excavation in progress.



Tank being removed from its hold.

Photodocumentation



Refilled and graded former tankhold location.

.

1RP-10-01-

RECEIVED

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

FEH 25 2010 State of New Mexico Energy Minerals and Natural Resources **Oil Conservation Division**

Form C-141 Revised October 10, 2003

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

1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

		OPERATOR	\boxtimes	Initial Report		Final Report
Name of Company: XTO Energy Permian Division - SE Ne	ew Mexico	Contact: Rick Wilson/Production Forem	ลก			
Address: P.O. Box 700, Eunice, New Mexico 88231		Telephone No.: (575) 394-2089				
Facility Name: EMSU - Satellite No. 11		Facility Type: Tank Battery - Nearest W	cll is H	MSU #389 (API #30)-025-04	4361) 04631
Surface Owner: State of New Mexico	Mineral Owner		T	case No		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Fect from the	East/West Line	County
н	15	215	36Ē					Lea
							·	

Latitude: N 32° 28' 47.64" Longitude: W 103° 14' 44.94"

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	I				
By Whom?	Date and Hour				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.				
🗆 Yes 🛛 No					
If a Watercourse was Impacted, Describe Fully.*	······································				
	WATER ONEC				
Describe Cause of Problem and Remedial Action Taken.* Below grade	ank removed per OCD approved closur	re plan. Initial composite sample (5-spot)			
from bottom of tank excavation shows evidence of a release. TPH was of	letected at 313 ppm exceeding the repo	rting limit of 100 ppm. The result meets the			
Recommended Remediation Action Level (RRAL) of 5000 ppm for TPH. Propose to close with clean soil.					
Describe Area Affected and Cleanup Action Taken.* No cleanup action was taken at this time; the TPH was below RRAL (5000 ppm). XTO request to close tank excavation per OCD approved closure plan.					
cross whice executed on the cost approved closure pixel.					
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.					
rederal, state, or local laws allow regulations.					
	<u>OIL CONSERV</u>	VATION DIVISION			
Signature: NA Jacobar					
	- ENV ENGINEER : Approved by District Supervisor - 1 - 0 0				
Printed Name: Guy Haykus - XTO Energy	Approved by District Supervisor. Sherflion LeRing				
Title Roduction Superintendent	Approval Date: 02/01/10	Expiration Date: 04/01/10			
E mail Address William heidus Qutan musses					
E-mail Address: William_haykus@xtoenergy.com	Conditions of Approval: SUBMA F	Antacheu 🔲			
Date: 1/19/2010 Phone: (432) 682-8873	C-141 BY 04/01/10	IRP'10.2.2407			

Phone: (432) 682-8873 Attach Additional Sheets If Necessary

PCVF 10032 32628

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 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fc, NM 87505

IRP-10-0+2-2407 RECEIVED

State of New Mexico Energy Minerals and Natural Resources FEB 25 2010

Form C-141 Revised October 10, 2003

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

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

Release Notification and Corrective Action

OPERATOR

Final Report Initial 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 04631
Facility Name: EMSU - Satellite No. 11	Facility Type: Tank Battery - Nearest Well is EMSU #389 (API #30-025-04361)
Surface Owner: State of New Mexico Mineral Owner	er Lease No.

LOCATION OF RELEASE

LUCATION OF RELEASE									
Unit Letter H	Section 15	Township 21S	Range 36E	Feet from the	North/South Line	Feet from the	East/West Linc	County	Lea

Latitude: N 32° 28' 47.64" Longitude: W 103° 14' 44.94"

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 Problem and Remedial Action Taken.* Below grade ta	ink removed per OCD approved closur	re plan. Initial composite sample (5-spot)				
from bottom of tank excavation shows evidence of a release. TPH was detected at 313 ppm exceeding the reporting limit of 100 ppm. The result meets the						
Recommended Remediation Action Level (RRAL) of 5000 ppm for TPH. Propose to close with clean soil.						
Describe Area Affected and Cleanup Action Taken.* No cleanup action was taken at this time; the TPH was below RRAL (5000 ppm). XTO request to						
close tank excavation per OCD approved closure plan.						
I hereby certify that the information given above is true and complete to t	he best of my knowledge and understa	and that nursuant to NMOCD rules and				
regulations all operators are required to report and/or file certain release n						
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 d	loes not relieve the operator of respons	sibility for compliance with any other				
federal, state, or local laws and/or regulations.						
\cap	OIL CONSERV	VATION DIVISION				
Signature: N. D. Houbers						
	Approved by District Supervisor: Mange					
Printed Name: Guy Haykus - XTO Energy	Approver by march supervisor. All foreign defermed					
Title: PROduction Superintendent	Approval Date: 0.20310 Expiration Date:					
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					
E-mail Address: William_haykus@xtoenergy.com	Conditions of Approval:	Attached				
Date: 1/19/2010 Phone: (432) 682-8873		Attached [] 1RP-10-2-2407				
Date: 1/19/2010 Phone: (432) 682-8873						

Attach Additional Sheets If Necessary