



February 23, 2010

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

RECEIVED

FEB 25 2010

HOBBS, NM

RE: Below-Grade Tank Closure Final Reports, XTO Energy, Inc., Eunice Monument South Unit,
Satellite 12, 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.

A handwritten signature in black ink, appearing to read 'Michelle L. Green', written over a white background.

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

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FEB 25 2010

HOBBSOCD

**Below-Grade Tank
Closure Final Report**

XTO Energy, Inc.

1RP-10-2-2406

**Eunice Monument South Unit – Satellite 12
Unit G (SW/4, NE/4), Section 21, T21S, R36E
Lea County, NM**

Project No. 8-0154

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 12 (Site) located in Lea County, New Mexico. The legal description of the Site is Unit G (SW/4, NE/4), Section 21, Township 21 South, Range 36 East (Figure 1). The geodetic location is N32° 28' 0.90", W103° 16' 5.88".

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: Mr. Rick Wilson
Address: XTO Energy Inc., Permian Division – SE New Mexico
PO Box 700
Eunice, New Mexico 88231
Office: 575.394.2089 X2201

Secondary Contact: Guy Haykus
Address: 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 is located in rural Lea County in the proximity of Oil Center, New Mexico. The nearest producing well is EMSU #422, API #30-025-29584. 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.

- 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 15 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 #12 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 sample, Satellite 12 Bottom, (48.0 ppm) was below the 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-10-2-2406.

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 and approved for excavation backfilling (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 final closure for this Site.

Table 1
 Soil Analytical Data Summary
 EMSU - Satellite #12
 XTO Energy, Inc.
 Lea County, New Mexico
 Project No.: 8-0154

| Sample ID | Date | Benzene | Ethyl benzene | Toluene | Total Xylenes | Total BTEX | TRPH | Chlorides |
|---------------------|-----------|----------|---------------|---------|---------------|------------|------|-----------|
| Reporting Limit | | 0.2 | | | | 50 | 100 | 250 |
| Satellite 12 Bottom | 1/14/2010 | <0.00110 | <0.0010 | <0.0021 | <0.0010 | <0.0010 | 48.0 | <4.36 |

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 #12
XTO Energy, Inc.
Lea County, New Mexico
Project No.: 8-0154

| Sample ID | Date | TPH | Chlorides |
|-------------------|-----------|-------|-----------|
| RRAL: | | | 250 |
| Satellite-12 Fill | 2/12/2010 | <12.0 | 5.71 |

Notes

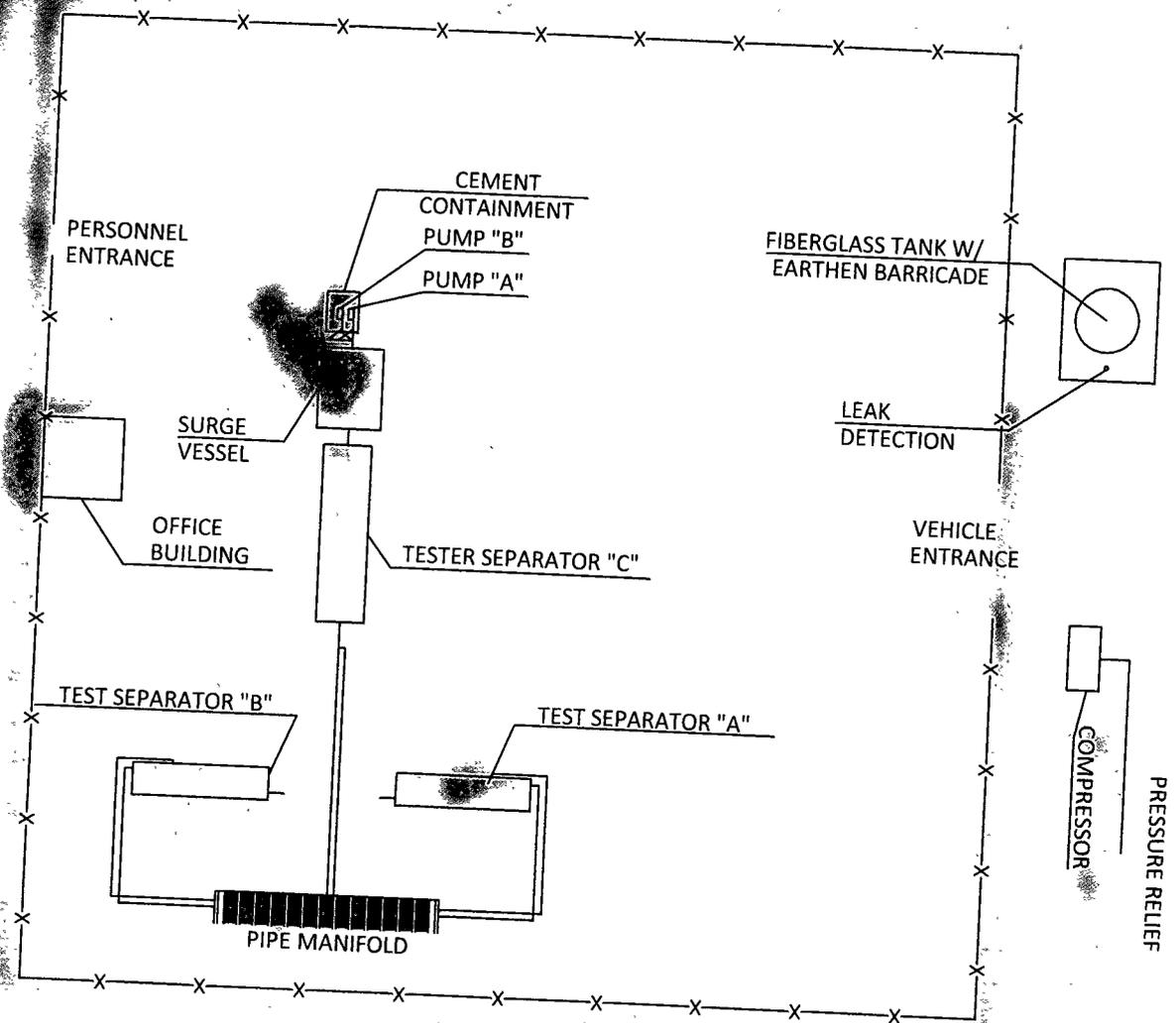
RRAL - Recommended Remediation Action Level

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.

JWW



Graphic Scale in Feet

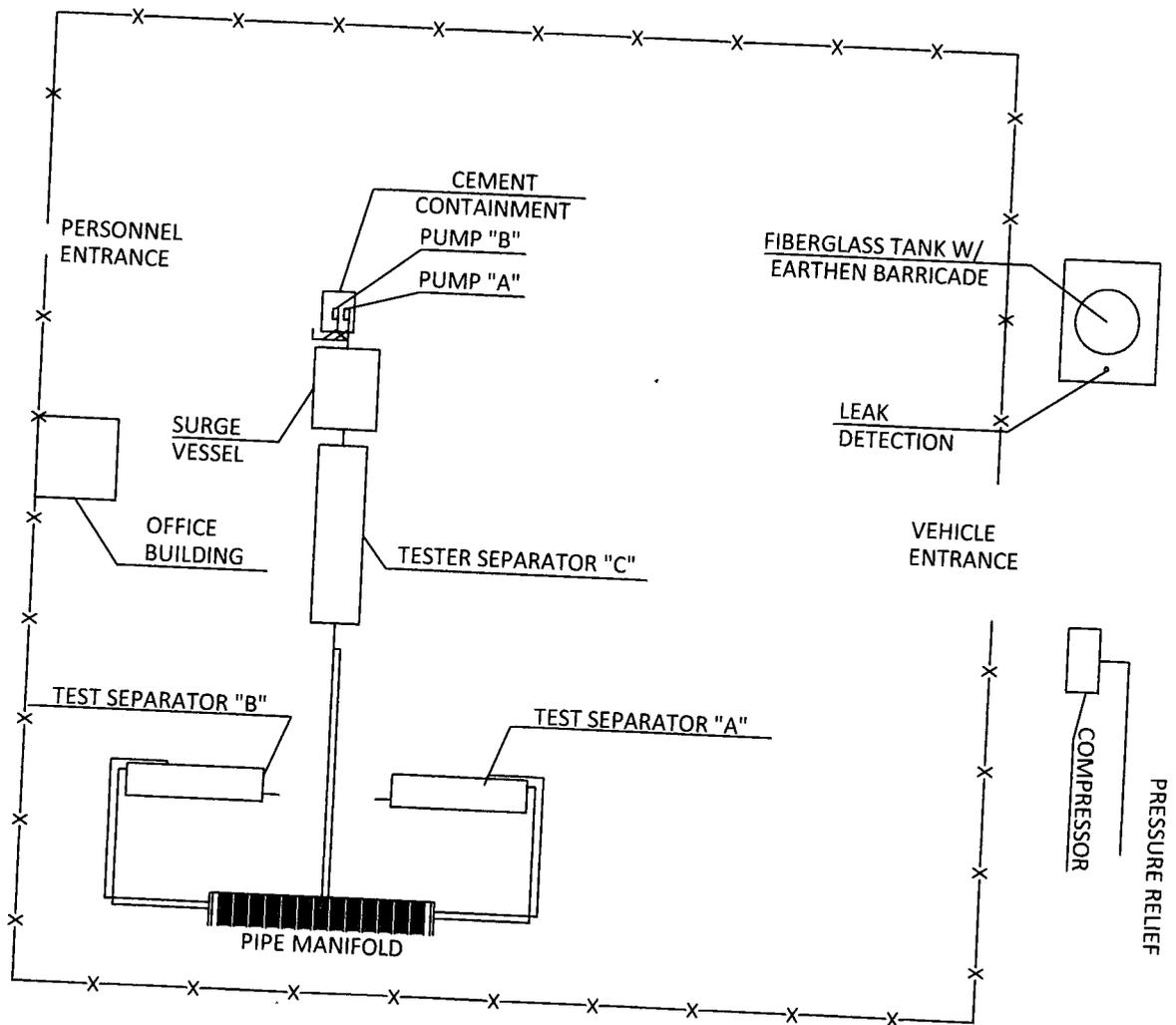
XTO Energy, Inc.
 EMSU - Sat #12
 Unit G. Sec. 21, T-21-S, R-36-E
 Lea County, New Mexico

N 32° 28' 01"
 W 103° 16' 05"

Larson &
 ssociates, Inc.
 Environmental Consultants

Figure 2 - Aerial

JWW



Graphic Scale in Feet
 XTO Energy, Inc.
 EMSU - Sat #12
 Unit G. Sec. 21, T-21-S, R-36-E
 Lea County, New Mexico

N 32° 28' 01"
 W 103° 16' 05"

Larson &
 associates, Inc.
 Environmental Consultants

Figure 3 - Site Drawing

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

Form C-144
July 21, 2008

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: XTO ENERGY, INC. OGRID #: 5380
Address: PERMIAN DIVISION-SE NEW MEXICO, P.O. BOX 700, EUNICE, NEW MEXICO 88231
Facility or well name: EMSU-SATELLITE 12/EMSU-WELL NO. 422 (Nearest Well)
API Number: 30-025-29584 (EMSU Well No. 422) OCD Permit Number: _____
U/L or Qtr/Qtr Unit G Section 21 Township 21S Range 36E County LEA
Center of Proposed Design: Latitude 32° 28' 0.90" N Longitude 103° 16' 5.88" W NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2.
 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 _____
 String-Reinforced
Liner Seams: Welded Factory Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
 Drying Pad Above Ground Steel Tanks Haul-off Bins Other _____
 Lined Unlined Liner type: Thickness _____ mil LLDPE HDPE PVC Other _____
Liner Seams: Welded Factory Other _____

4.
 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,
Liner type: Thickness _____ mil HDPE PVC Other _____

5.
 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.

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, hospital, institution or church*)
- Four foot height, four strands of barbed wire evenly spaced between one and four feet
- Alternate. Please specify _____

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.

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

9.

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

Instructions: *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.*

- | | |
|--|---|
| 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 | <input type="checkbox"/> Yes <input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input type="checkbox"/> 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Within a 100-year floodplain. - FEMA map | <input type="checkbox"/> Yes <input type="checkbox"/> No |

11.

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 19.15.17.11 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: _____ 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.

- 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 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
- Liner Specifications and Compatibility Assessment - 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 19.15.17.12 NMAC
- Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- Nuisance or Hazardous Odors, including H₂S, 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 Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

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)

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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two 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 *will not* be used for future service and operations?
 Yes (If yes, please provide the information below) No

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.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

- 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 NA
- 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 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

N/A (Method Not Proposed or Approved)
BJS 7/17/09

18.

On-Site 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.

- 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 19.15.17.11 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 cannot be achieved)
- Soil Cover Design - 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

N/A (Method Not Proposed or Approved)
BJS 7/17/09

19. **Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): W.G. Haykus Title: Production Superintendent
Signature: [Signature] Date: 12/12/08
e-mail address: William-haykus@XTOENERGY.com Telephone: 432-620-6705

20. **OCD Approval:** Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature: [Signature] Approval Date: 7/14/09
Title: Environmental Engineer OCD Permit Number: _____

21. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date: _____

22. **Closure Method:**

Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
 If different from approved plan, please explain.

23. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

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 or in areas that *will not* be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below) No

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 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)
 - Disposal Facility Name and Permit Number Disposal Facility Name: Sundance Services, Inc. Permit Number: R5516/NM-01-0003
 - Soil Backfilling and Cover Installation
 - Re-vegetation Application Rates and Seeding Technique
 - Site Reclamation (Photo Documentation)
- On-site Closure Location: Latitude 32° 28' 0.90" N Longitude 103° 16' 5.88" W NAD: 1927 1983

25. **Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): W.G. Haykus Title: Production Superintendent
Signature: [Signature] Date: 02/22/10
e-mail address: williamhaykus@xtoenergy.com Telephone: 432.620.6705

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231
(575) 394-2511

TICKET NO 130691

LEASE OPERATOR/SHIPPER/COMPANY: XTO

LEASE NAME: FM S&H Unit #12

TRANSPORTER COMPANY: SW Badger

TIME 2:57 AM/PM

DATE: 1/13/10 VEHICLE NO.: 438

GENERATOR COMPANY
MAN'S NAME: Gene Hudson

CHARGE TO: XTO

RIG NAME
AND NUMBER

TYPE OF MATERIAL

- | | | |
|--|--|-----------------------------------|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate |
| <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |
| <input checked="" type="checkbox"/> Solids | <input type="checkbox"/> BS&W Content: _____ | <input type="checkbox"/> Call Out |

Description: Solids

RRC or API #

VOLUME OF MATERIAL BBLs. 15 : YARD _____ : _____

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 TO TIME. 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED 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)

FACILITY REPRESENTATIVE: [Signature]
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter
Revised 09/09

Superior Printing Service, Inc.

Analytical Report 358654

for

Larson & Associates

Project Manager: Michelle Green

EMSU Sat 12

8-0154

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 (AAL11), 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: **358654**
EMSU Sat 12
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 358654. 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. 358654 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 358654



Larson & Associates, Midland, TX

EMSU Sat 12

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------------------|---------------|-----------------------|---------------------|----------------------|
| Satellite # 12 Bottom | S | Jan-14-10 08:15 | | 358654-001 |

CASE NARRATIVE



Client Name: Larson & Associates

Project Name: EMSU Sat 12

Project ID: 8-0154
Work Order Number: 358654

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

Project Id: 8-0154

Contact: Michelle Green

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

Report Date: 18-JAN-10

Project Location:

Project Manager: Brent Barron, II

| | | | | | | |
|-----------------------------------|--|------|--------|--|--|--|
| Analysis Requested | Lab Id: 358654-001 | | | | | |
| | Field Id: Satellite # 12 Bottom | | | | | |
| | Depth: | | | | | |
| | Matrix: SOIL | | | | | |
| | Sampled: Jan-14-10 08:15 | | | | | |
| Anions by E300 | Extracted: | | | | | |
| | Analyzed: Jan-15-10 11:40 | | | | | |
| | Units/RL: mg/kg RL | | | | | |
| Chloride | | ND | 4.36 | | | |
| BTEX by EPA 8021B | Extracted: | | | | | |
| | Analyzed: Jan-16-10 18:41 | | | | | |
| | Units/RL: mg/kg RL | | | | | |
| Benzene | | ND | 0.0010 | | | |
| Toluene | | ND | 0.0021 | | | |
| Ethylbenzene | | ND | 0.0010 | | | |
| m,p-Xylenes | | ND | 0.0021 | | | |
| o-Xylene | | ND | 0.0010 | | | |
| Total Xylenes | | ND | 0.0010 | | | |
| Total BTEX | | ND | 0.0010 | | | |
| Percent Moisture | Extracted: | | | | | |
| | Analyzed: Jan-15-10 17:00 | | | | | |
| | Units/RL: % RL | | | | | |
| Percent Moisture | | 3.67 | 1.00 | | | |
| TPH by EPA 418.1 | Extracted: | | | | | |
| | Analyzed: Jan-18-10 10:18 | | | | | |
| | Units/RL: mg/kg RL | | | | | |
| TPH, Total Petroleum Hydrocarbons | | 48.0 | 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 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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| 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 |
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| 842 Cantwell Lane, Corpus Christi, TX 78408 | (361) 884-0371 | (361) 884-9116 |

Form 2 - Surrogate Recoveries

Project Name: EMSU Sat 12

Work Orders : 358654,

Project ID: 8-0154

Lab Batch #: 789708

Sample: 547806-1-BKS / BKS

Batch: 1 Matrix: Solid

| Units: mg/kg | Date Analyzed: 01/16/10 16:46 | SURROGATE RECOVERY STUDY | | | |
|-----------------------------------|-------------------------------|--------------------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 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 / BSD

Batch: 1 Matrix: Solid

| Units: mg/kg | Date Analyzed: 01/16/10 17:09 | SURROGATE RECOVERY STUDY | | | |
|-----------------------------------|-------------------------------|--------------------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | 0.0322 | 0.0300 | 107 | 80-120 | |
| 4-Bromofluorobenzene | 0.0302 | 0.0300 | 101 | 80-120 | |

Lab Batch #: 789708

Sample: 547806-1-BLK / BLK

Batch: 1 Matrix: Solid

| Units: mg/kg | Date Analyzed: 01/16/10 18:18 | SURROGATE RECOVERY STUDY | | | |
|-----------------------------------|-------------------------------|--------------------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | 0.0265 | 0.0300 | 88 | 80-120 | |
| 4-Bromofluorobenzene | 0.0302 | 0.0300 | 101 | 80-120 | |

Lab Batch #: 789708

Sample: 358654-001 / SMP

Batch: 1 Matrix: Soil

| Units: mg/kg | Date Analyzed: 01/16/10 18:41 | SURROGATE RECOVERY STUDY | | | |
|-----------------------------------|-------------------------------|--------------------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | 0.0271 | 0.0300 | 90 | 80-120 | |
| 4-Bromofluorobenzene | 0.0310 | 0.0300 | 103 | 80-120 | |

Lab Batch #: 789708

Sample: 358654-001 S / MS

Batch: 1 Matrix: Soil

| Units: mg/kg | Date Analyzed: 01/17/10 00:22 | SURROGATE RECOVERY STUDY | | | |
|-----------------------------------|-------------------------------|--------------------------|-----------------|-------------------|-------|
| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
| 1,4-Difluorobenzene | 0.0321 | 0.0300 | 107 | 80-120 | |
| 4-Bromofluorobenzene | 0.0328 | 0.0300 | 109 | 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: EMSU Sat 12

Work Orders : 358654,

Project ID: 8-0154

Lab Batch #: 789708

Sample: 358654-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/17/10 00:45

SURROGATE RECOVERY STUDY

| BTEX by EPA 8021B Analytes | Amount Found [A] | True Amount [B] | Recovery %R [D] | Control Limits %R | Flags |
|-----------------------------------|------------------|-----------------|-----------------|-------------------|-------|
| 1,4-Difluorobenzene | 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.

Project Name: EMSU Sat 12

Work Order #: 358654

Project ID:

8-0154

Lab Batch #: 789653

Sample: 789653-1-BKS

Matrix: Solid

Date Analyzed: 01/15/2010

Date Prepared: 01/15/2010

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Anions by E300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|--|-------------------------|------------------------|-------------------------------|---------------------------|--------------------------|--------------|
| 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

Project Name: EMSU Sat 12

Work Order #: 358654

Analyst: ASA

Date Prepared: 01/15/2010

Project ID: 8-0154

Date Analyzed: 01/16/2010

Lab Batch ID: 789708

Sample: 547806-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 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 |
|--------------------------|--------------------------------|------------------------|-------------------------------|---------------------------|------------------------|---|-----------------------------|--------------|--------------------------|----------------------------|-------------|
| Analytes | | | | | | | | | | | |
| Benzene | ND | 0.1000 | 0.0985 | 99 | 0.1 | 0.0917 | 92 | 7 | 70-130 | 35 | |
| Toluene | ND | 0.1000 | 0.0996 | 100 | 0.1 | 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

Date Prepared: 01/18/2010

Date Analyzed: 01/18/2010

Lab Batch ID: 789701

Sample: 789701-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| TPH by EPA 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 |
|-----------------------------------|--------------------------------|------------------------|-------------------------------|---------------------------|------------------------|---|-----------------------------|--------------|--------------------------|----------------------------|-------------|
| Analytes | | | | | | | | | | | |
| TPH, Total Petroleum Hydrocarbons | ND | 2500 | 2870 | 115 | 2500 | 2870 | 115 | 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 Sat 12

Work Order #: 358654

Lab Batch #: 789653

Project ID: 8-0154

Date Analyzed: 01/15/2010

Date Prepared: 01/15/2010

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

Analytes

Chloride

| Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| 41.9 | 105 | 153 | 106 | 75-125 | |

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$

Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

RL - Below Reporting Limit

Project Name: EMSU Sat 12

Work Order #: 358654

Project ID: 8-0154

Lab Batch ID: 789708

QC- Sample ID: 358654-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/17/2010

Date Prepared: 01/15/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

| BTEX by EPA 8021B 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 |
|-------------------------------|--------------------------|-----------------|--------------------------|----------------------|-----------------|------------------------------------|--------------------|-------|-------------------|---------------------|------|
| | 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

QC- Sample ID: 358525-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 01/18/2010

Date Prepared: 01/18/2010

Analyst: LATCOR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY 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)/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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Project Name: EMSU Sat 12

Work Order #: 358654

Lab Batch #: 789653

Project ID: 8-0154

Date Analyzed: 01/15/2010

Date Prepared: 01/15/2010

Analyst: LATCOR

QC- Sample ID: 358528-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

| Anions by E300 Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|-------------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|
| Chloride | 41.9 | 42.9 | 2 | 20 | |

Lab Batch #: 789643

Date Analyzed: 01/15/2010

Date Prepared: 01/15/2010

Analyst: JLG

QC- Sample ID: 358654-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

| Percent Moisture Analyte | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|---------------------------------|--------------------------------|--------------------------------------|-----|---------------------------|------|
| 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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson & ASSOC.
 Date/ Time: 1-14-10 14:15
 Lab ID #: 358654
 Initials: AL

Sample Receipt Checklist

| | | | | Client Initials |
|-----|--|-------|----|--------------------------|
| #1 | Temperature of container/ cooler? | (Yes) | No | 4.1 °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? | (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? | (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? | (Yes) | No | |
| #17 | Sufficient sample amount for indicated test(s)? | (Yes) | 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

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

Analytical Report 362211

for

Larson & Associates

Project Manager: Michelle Green

EMSU Sat 12

8-0154

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: **362211**
EMSU Sat 12
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 362211. 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. 362211 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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Cross Reference 362211



Larson & Associates, Midland, TX

EMSU Sat 12

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|---------------|--------|-----------------|--------------|---------------|
| Sat # 12 Fill | S | Feb-12-10 10:30 | | 362211-001 |

CASE NARRATIVE



Client Name: Larson & Associates
Project Name: EMSU Sat 12



Project ID: 8-0154
Work Order Number: 362211

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:

Batch: LBA-793759 Percent Moisture

None

Batch: LBA-793823 Inorganic Anions by EPA 300

None

Batch: LBA-794201 TPH by EPA 418.1

None

Project Id: 8-0154

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

| | | | | | | |
|-----------------------------------|--|------|------|--|--|--|
| Analysis Requested | Lab Id: 362211-001 Field Id: Sat # 12 Fill Depth: Matrix: SOIL Sampled: Feb-12-10 10:30 | | | | | |
| Anions by E300 | Extracted: Analyzed: Feb-15-10 08:40 Units/RL: mg/kg RL | | | | | |
| Chloride | | 5.71 | 5.05 | | | |
| Percent Moisture | Extracted: Analyzed: Feb-15-10 08:00 Units/RL: % RL | | | | | |
| Percent Moisture | | 16.8 | 1.00 | | | |
| TPH by EPA 418.1 | Extracted: Analyzed: Feb-17-10 12.52 Units/RL: mg/kg RL | | | | | |
| TPH, Total Petroleum Hydrocarbons | | ND | 12.0 | | | |

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

- 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 Sat 12

Work Order #: 362211

Project ID:

8-0154

Lab Batch #: 793823

Sample: 793823-1-BKS

Matrix: Solid

Date Analyzed: 02/15/2010

Date Prepared: 02/15/2010

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

| Anions by E300 Analytes | Blank Result [A] | Spike Added [B] | Blank Spike Result [C] | Blank Spike %R [D] | Control Limits %R | Flags |
|--------------------------------|---------------------|--------------------|---------------------------|-----------------------|-------------------|-------|
| 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



BS / BSD Recoveries



Project Name: EMSU Sat 12

Work Order #: 362211

Analyst: LATCOR

Date Prepared: 02/17/2010

Project ID: 8-0154

Date Analyzed: 02/17/2010

Lab Batch ID: 794201

Sample: 794201-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

| 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] | Blk. Spk Dup. %R [G] | RPD % | Control Limits %R | Control Limits %RPD | Flag |
|----------------------------------|-----------------------------------|-----------------|------------------------|--------------------|-----------------|----------------------------------|----------------------|-------|-------------------|---------------------|------|
| | TPH, Total Petroleum Hydrocarbons | 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

Project Name: EMSU Sat 12

Work Order #: 362211

Lab Batch #: 793823

Project ID: 8-0154

Date Analyzed: 02/15/2010

Date Prepared: 02/15/2010

Analyst: LATCOR

QC- Sample ID: 362205-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300

Analytes

| | Parent Sample Result [A] | Spike Added [B] | Spiked Sample Result [C] | %R [D] | Control Limits %R | Flag |
|----------|--------------------------|-----------------|--------------------------|--------|-------------------|------|
| Chloride | 133 | 215 | 317 | 86 | 75-125 | |

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A) / B$

Relative Percent Difference [E] = $200 \cdot (C-A) / (C+B)$

|| Results are based on MDL and Validated for QC Purposes

RL - Below Reporting Limit

Project Name: EMSU Sat 12

Work Order #: 362211

Project ID: 8-0154

Lab Batch ID: 794201

QC- Sample ID: 362208-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/17/2010

Date Prepared: 02/17/2010

Analyst: LATCOR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY 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 | 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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Project Name: EMSU Sat 12

Work Order #: 362211

Lab Batch #: 793823

Project ID: 8-0154

Date Analyzed: 02/15/2010

Date Prepared: 02/15/2010

Analyst: LATCOR

QC- Sample ID: 362205-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

| Anions by E300 | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|-----------------------|---------------------------------|------------------------------------|------------|----------------------------|-------------|
| Analyte | | | | | |
| Chloride | 133 | 126 | 5 | 20 | |

Lab Batch #: 793759

Date Analyzed: 02/15/2010

Date Prepared: 02/15/2010

Analyst: WRU

QC- Sample ID: 362205-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

| Percent Moisture | Parent Sample Result [A] | Sample Duplicate Result [B] | RPD | Control Limits %RPD | Flag |
|-------------------------|---------------------------------|------------------------------------|------------|----------------------------|-------------|
| Analyte | | | | | |
| 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

Environmental Lab of Texas
 Variance/ Corrective Action Report- Sample Log-In

Client: Larson & Assoc.
 Date/ Time: 2.12.10 16:00
 Lab ID #: 362211
 Initials: AL

Sample Receipt Checklist

Client Initials

| | | | | | |
|-----|--|--------------------------------------|----|---------------------------|--|
| #1 | Temperature of container/ cooler? | <input checked="" type="radio"/> Yes | No | 5.5 °C | |
| #2 | Shipping container in good condition? | <input checked="" type="radio"/> Yes | No | | |
| #3 | Custody Seals intact on shipping container/ cooler? | <input checked="" type="radio"/> Yes | No | Not Present | |
| #4 | Custody Seals intact on sample bottles/ container? | <input checked="" type="radio"/> Yes | No | Not Present | |
| #5 | Chain of Custody present? | <input checked="" type="radio"/> Yes | No | | |
| #6 | Sample instructions complete of Chain of Custody? | <input checked="" type="radio"/> Yes | No | | |
| #7 | Chain of Custody signed when relinquished/ received? | <input checked="" type="radio"/> Yes | No | | |
| #8 | Chain of Custody agrees with sample label(s)? | <input checked="" type="radio"/> Yes | No | iD written on Cont./ Lid | |
| #9 | Container label(s) legible and intact? | <input checked="" type="radio"/> Yes | No | Not Applicable | |
| #10 | Sample matrix/ properties agree with Chain of Custody? | <input checked="" type="radio"/> Yes | No | | |
| #11 | Containers supplied by ELOT? | <input checked="" type="radio"/> Yes | No | | |
| #12 | Samples in proper container/ bottle? | <input checked="" type="radio"/> Yes | No | See Below | |
| #13 | Samples properly preserved? | <input checked="" type="radio"/> Yes | No | See Below | |
| #14 | Sample bottles intact? | <input checked="" type="radio"/> Yes | No | | |
| #15 | Preservations documented on Chain of Custody? | <input checked="" type="radio"/> Yes | No | | |
| #16 | Containers documented on Chain of Custody? | <input checked="" type="radio"/> Yes | No | | |
| #17 | Sufficient sample amount for indicated test(s)? | <input checked="" type="radio"/> Yes | No | See Below | |
| #18 | All samples received within sufficient hold time? | <input checked="" type="radio"/> Yes | No | See Below | |
| #19 | Subcontract of sample(s)? | <input checked="" type="radio"/> Yes | No | Not Applicable | |
| #20 | VOC samples have zero headspace? | <input checked="" type="radio"/> Yes | No | Not Applicable | |

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

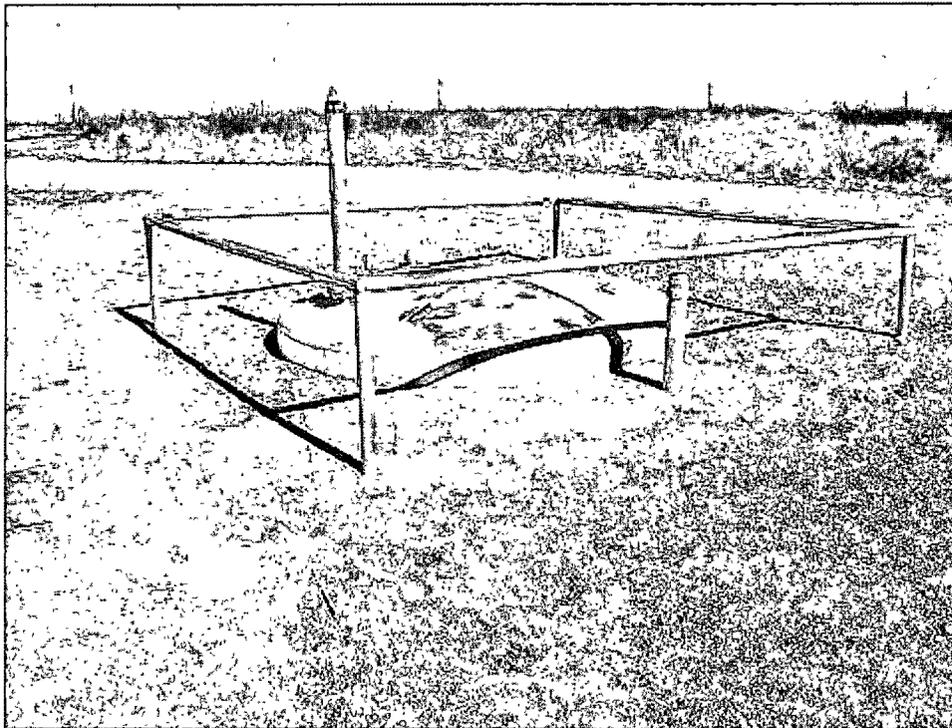
Corrective Action Taken:

- 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

Photodocumentation

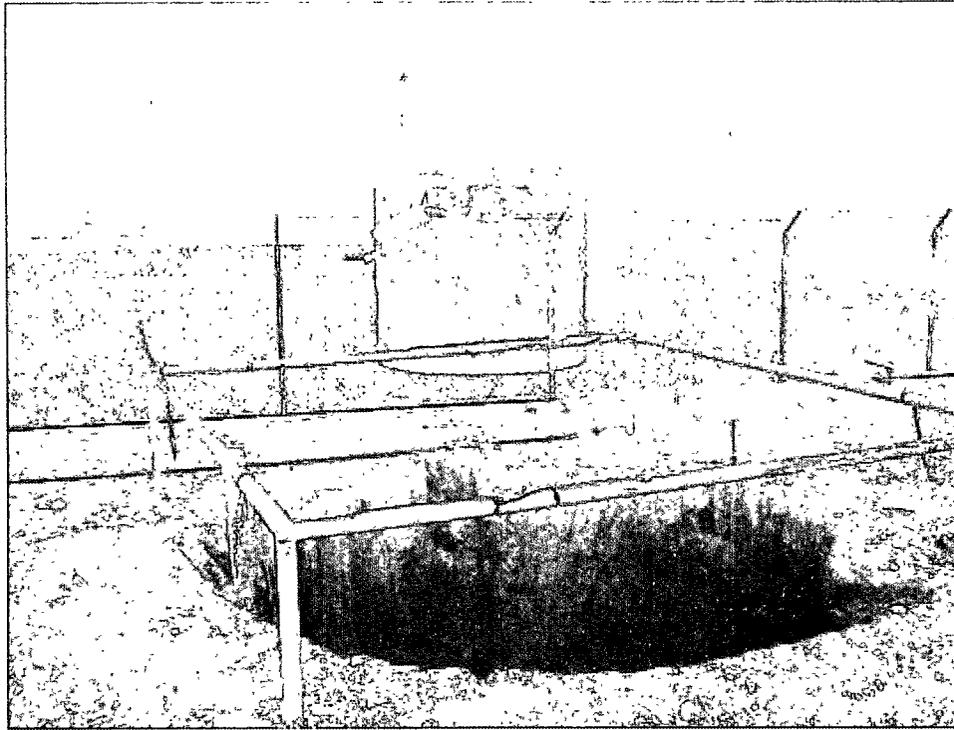


Facility Placard

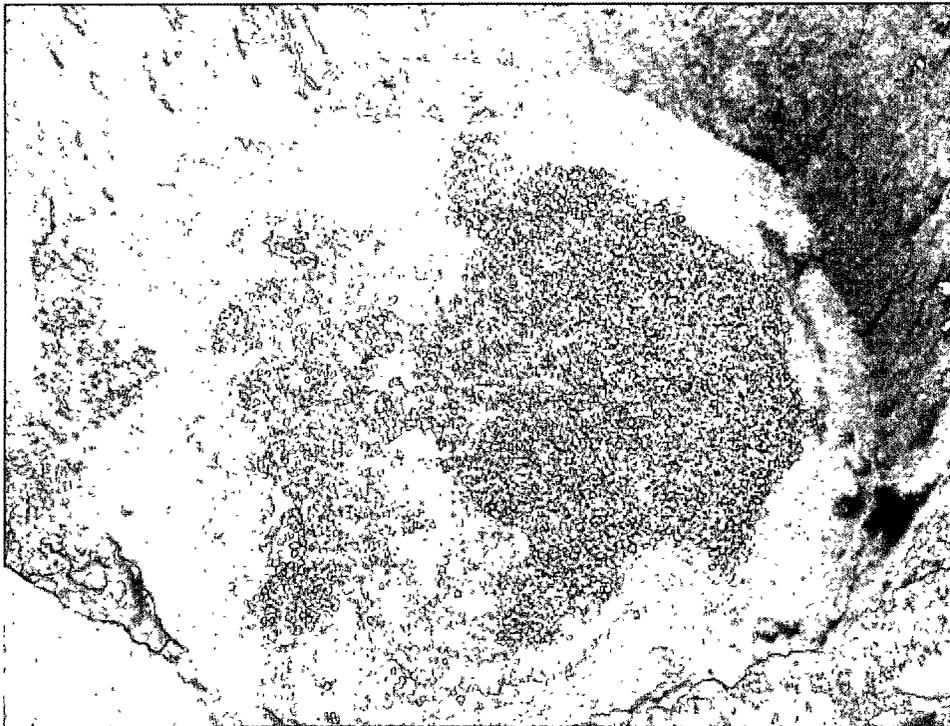


Below-grade tank prior to closure.

Photodocumentation

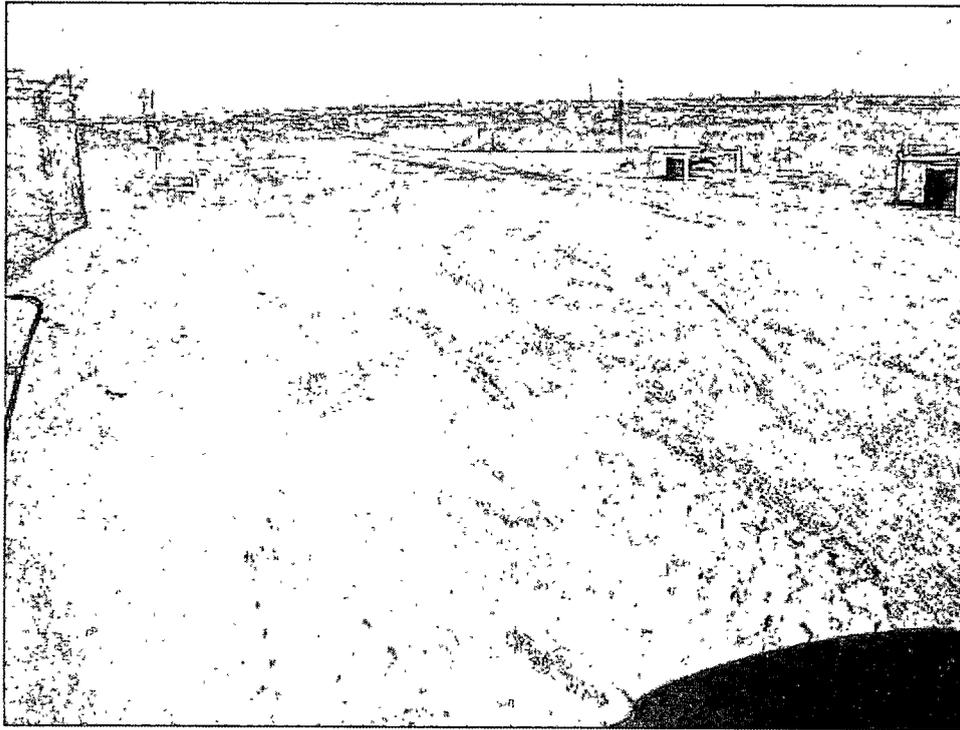


Tank removed from its hold.



View of tankhold bottom, staining was not present.

Photodocumentation



Refilled and graded former tankhold location.

RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

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

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: XTO Energy Permian Division - SE New Mexico | Contact: Rick Wilson/Production Foreman |
| Address: P.O. Box 700, Eunice, New Mexico 88231 | Telephone No.: (575) 394-2089 |
| Facility Name: EMSU - Satellite No. 12 | Facility Type: Tank Battery - Nearest Well is EMSU #442 (API #30-025-29584) |

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

LOCATION OF RELEASE

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

Latitude: N 32° 28' 0.90" Longitude: W 103° 16' 5.88"

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: Unknown | Date and Hour of Discovery: Unknown |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

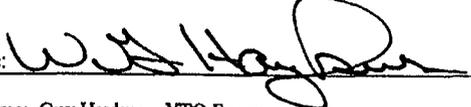
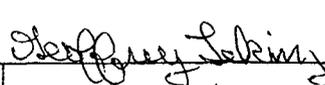
If a Watercourse was Impacted, Describe Fully.*

WATER @ 200

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 evidence of a release. TPH was detected at 48.0 ppm below the reporting limit of 100 ppm. 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 reporting limit (100 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 the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | |
|--|--|-----------------------------------|
| Signature:  | OIL CONSERVATION DIVISION | |
| Printed Name: Guy Haykus - XTO Energy | Approved by: ^{ENVIRONMENTAL} District Supervisor:  | |
| Title: Production Superintendent | Approval Date: 02/01/10 | Expiration Date: 04/01/10 |
| E-mail Address: William haykus@xtoenergy.com | Conditions of Approval: SUBMIT FINAL C-141 BY 04/01/10 | Attached <input type="checkbox"/> |
| Date: 1/19/2010 Phone: (432) 682-8873 | | IRP-10-2-2406 |

* Attach Additional Sheets If Necessary

fGRL100323 2128

10-2-2406
IRP-09-12

RECEIVED

FEB 25 2010

Form C-141
Revised October 10, 2003

State of New Mexico
Energy Minerals and Natural Resources

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

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

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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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|---|
| Name of Company: XTO Energy Permian Division - SE New Mexico | Contact: Rick Wilson/Production Foreman |
| Address: P.O. Box 700, Eunice, New Mexico 88231 | Telephone No.: (575) 394-2089 |
| Facility Name: EMSU - Satellite No. 12 | Facility Type: Tank Battery - Nearest Well is EMSU #442 (API #30-025-29584) |

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

LOCATION OF RELEASE

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

Latitude: N 32° 28' 0.90" Longitude: W 103° 16' 5.88"

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: Unknown | Date and Hour of Discovery: Unknown |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

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 evidence of a release. TPH was detected at 48.0 ppm below the reporting limit of 100 ppm. 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 reporting limit (100 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 the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | |
|--|---|-----------------------------------|
| Signature: <i>William Haykus</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Guy Haykus - XTO Energy | Approved by ^{ENV. ENGINEER:} District Supervisor: <i>Jeffrey LeMay</i> | |
| Title: <i>Production Superintendent</i> | Approval Date: <i>02/03/10</i> | Expiration Date: <i>—</i> |
| E-mail Address: William haykus@xtoenergy.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 1/19/2010 Phone: (432) 682-8873 | | <i>IRP-10-2-2406</i> |

* Attach Additional Sheets If Necessary